

Pla d'Acció per l'Energia Sostenible i el Clima Garrotxa d'Empordà

ANNEX I - *SECAP Template*



The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template d'Avinyonet de Puigventós

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BEI) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (MEI) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

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A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																
	Electricity	District heating and cooling	Fossil fuels							Renewable energies						Total	
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal		Geothermal
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																	
Municipal buildings, equipment/facilities	338,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	338,6
Municipal buildings, equipment/facilities	183,6	NE	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	183,6
Public lighting	155	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	155
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	1017,54	0	0	140,97	435,55	0	0	0	0	0	0	0	0	0	0	0	1594,06
Institutional buildings	1017,54	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1017,54
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Residential buildings	2320,16	NE	0	535,1	1480,05	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	4335,31
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-residential)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3676,3	0	0	676,07	1915,6	0	0	0	0	0	0	0	0	0	0	0	6267,97
TRANSPORT																	
Municipal fleet	0	0	0	0	0	19,31	0	0	0	0	0	0	0	0	0	0	19,31
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	13201,31	2100,91	0	0	0	0	0	0	0	0	0	15302,22
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	13220,62	2100,91	0	0	0	0	0	0	0	0	0	15321,53
OTHER																	
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3676,3	0	0	676,07	1915,6	13220,62	2100,91	0	0	0	0	0	0	0	0	0	21589,5

Covenant Key Sectors

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NO	
Sales Guarantees of Origins (within the municipality boundaries)	NO	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	0	0	0

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management		
Waste management	660,32	0
Solid waste disposal	660,32	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge		
Wastewater treatment and discharge	NE	
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓛ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓛ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓛ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	Low	Low	No change	No change	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	High	High	Increase	Increase	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓛ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Moderate	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Low	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	Moderate	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Low	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

① Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
① Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	① Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
① Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	1285,28	MWh/a
Renewable energy production:	0	MWh/a
CO ₂ reduction:	828,45	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promote shared self-consumption and local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: m of the action is to make all the citizens from the municipality aware of the shared options for self-consumption and the advantages 853 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 5.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: 438,75 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: [] €
14) Life expectancy of the action: 10 years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 107.759 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 686,4 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 330,16 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments:

9) Total implementation costs: 148.700 €

Source of funding:	[Drop-down]	€
Investment costs:		€
Non-investment costs:		€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	📌 To be filled in only for the concerned sector

11) Estimated impacts:

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] | [numerical value] | [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached:

Description: to collect and reuse rainwater in public facilities. 948 characters left

Related indicator: m3 rainwater collected and reused | m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] | [numerical value] | [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached:

Description: 1000 characters left

Related indicator: [Please specify] | [numerical value] | [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

25.704	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [input] €

14) Life expectancy of the action: [input] years

15) Return on Investment: [input] %

16) Jobs created: [input] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €

23) Life expectancy of the action: [input] years

24) Return on Investment: [input] %

25) Jobs created: [input] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [input] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: [Drop-down] €
Non-investment costs: [Drop-down] €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [Drop-down] MWh/a
Renewable energy production: [Drop-down] MWh/a
CO₂ reduction: [Drop-down] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [Drop-down] €
14) Life expectancy of the action: [Drop-down] years
15) Return on Investment: [Drop-down] %
16) Jobs created: [Drop-down] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [Drop-down] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [Drop-down] €
23) Life expectancy of the action: [Drop-down] years
24) Return on Investment: [Drop-down] %
25) Jobs created: [Drop-down] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [Drop-down] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www. [Drop-down]]

31) Video link: [www. [Drop-down]]

32) Picture: [upload]

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Boadella i les Escaules

Emission Inventory

- To be filled in only if your local authority is committed to mitigation.
Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BEI) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (MEI) every 4 years.

1) Inventory year: 2019
2) Population in the inventory year: 252
3) Emission factors: IPCC (Intergovernmental Panel on Climate Change), LCA (Life Cycle Assessment), National/sub-national
4) Emission reporting unit: tonnes CO2, tonnes CO2 equivalent
5) Methodological note

A. Final energy consumption

- Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Table with columns: Sector, Electricity, District heating and cooling, Fossil fuels (Natural gas, Liquid gas, Heating oil, Diesel, Gasoline, Lignite, Coal, Other fossil fuels), Renewable energies (Biogas, Plant oil, Biofuel, Other biomass, Solar thermal, Geothermal), Total. Rows include Buildings, Transport, and Other sectors.

Covenant Key Sectors

B. Energy supply

- Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Table with columns: Certified green electricity, Renewable electricity [MWh], CO2 / CO2 eq. Emission factor [t/MWh]. Rows: Purchases Guarantees of Origins, Sales Guarantees of Origins.

B2. Local/distributed electricity production (Renewable energy only)

Table with columns: Local renewable electricity plants, Renewable electricity produced [MWh], Emission factor [t/MWh produced], CO2 / CO2 eq. emissions [t]. Rows: Wind, Hydroelectric, Photovoltaics, Geothermal, Other.

B3. Local/distributed electricity production

Table with columns: Local electricity production plants, Electricity produced [MWh], Energy carrier input [MWh], CO2 / CO2 eq. emissions [t]. Rows: Combined Heat and Power, Other (ETS and large-scale plants > 20 MW not recommended).

B4. Local heat/cold production

Table with columns: Local heat/cold production plants, Heat/cold produced [MWh], Energy carrier input [MWh], CO2 / CO2 eq. emissions [t]. Rows: Combined Heat and Power, District heating (heat-only), Other.

C. CO2 emissions

C1. Please insert the CO2 emission factors adopted [t/MWh]:

Table with columns: Electricity (National, Local), Heat/cold, Fossil fuels (Natural gas, Liquid gas, Heating oil, Diesel, Gasoline, Lignite, Coal, Other fossil), Renewable energies (Biogas, Biofuel, Plant oil, Other biomass, Solar thermal, Geothermal).

C2. Please complete in case non-energy related sectors are included:

Table with columns: Non-energy related sectors, CO2 eq. emissions [t], Activity data (tons), CO2 eq. emissions [t], Activity data (m3). Rows: Waste management, Wastewater treatment and discharge, Other non-energy related such as fugitive emissions.

Emission Inventory Summary

- The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

Text input field for additional comments.

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓜ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓜ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓜ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	Low	Low	No change	No change	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓜ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Moderate	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	Moderate	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

① Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
① Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	① Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
① Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📄 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation
 Adaptation
 Energy poverty 📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description
691 characters left

6) Implementation timeframe
 Start:
 End:

7) Implementation status

8) Stakeholders involved 📄 Insert additional rows as needed

Additional comments

9) Total implementation costs €
 Source of funding: €
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector 📄 To be filled in only for the concerned sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	shift to walking & c	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	Other	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

11) Estimated impacts

Energy savings:	<input type="text" value="163,39"/>	MWh/a
Renewable energy production:	<input type="text" value="0"/>	MWh/a
CO ₂ reduction:	<input type="text" value="68,3"/>	t CO ₂ /a

12) Vulnerable population group(s) targeted

13) Financial savings €

14) Life expectancy of the action years

15) Return on Investment %

16) Jobs created full-time equivalent

17) Other figures [numerical value] [Unit]

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

19) Sector(s)

20) Outcome(s) reached

Description:
1000 characters left

Related indicator: [numerical value] [Unit]

21) Vulnerable population group(s) targeted

22) Avoided cost €

23) Life expectancy of the action years

24) Return on Investment %

25) Jobs created full-time equivalent

26) Other figures [numerical value] [Unit]

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

28) Outcome(s) reached

Description:
1000 characters left

Related indicator: [numerical value] [Unit]

Further information

30) Weblink

31) Video link

32) Picture

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation
 Adaptation
 Energy poverty 📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description
915 characters left

6) Implementation timeframe
 Start:
 End:

7) Implementation status

8) Stakeholders involved 📌 Insert additional rows as needed

Additional comments

9) Total implementation costs €
 Source of funding:
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector 📌 To be filled in only for the concerned sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	Photovoltaics	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	and use plannir	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

11) Estimated impacts

Energy savings:	<input type="text" value="0"/>	MWh/a
Renewable energy production:	<input type="text" value="675"/>	MWh/a
CO ₂ reduction:	<input type="text" value="324.67"/>	t CO ₂ /a

12) Vulnerable population group(s) targeted

13) Financial savings €

14) Life expectancy of the action years

15) Return on Investment %

16) Jobs created full-time equivalent

17) Other figures

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

19) Sector(s)

20) Outcome(s) reached

Description:
1000 characters left

Related indicator:

21) Vulnerable population group(s) targeted

22) Avoided cost €

23) Life expectancy of the action years

24) Return on Investment %

25) Jobs created full-time equivalent

26) Other figures

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

28) Outcome(s) reached

Description:
1000 characters left

Related indicator:

Further information

30) Weblink

31) Video link

32) Picture

Key actions

📄 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation
 Adaptation
 Energy poverty 📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description 878 characters left

6) Implementation timeframe
 Start:
 End:

7) Implementation status

8) Stakeholders involved 📄 Insert additional rows as needed

Additional comments

9) Total implementation costs €
 Source of funding:
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector 📄 To be filled in only for the concerned sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	Photovoltaics	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	ants and subsic	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

11) Estimated impacts

Energy savings:	<input type="text"/>	MWh/a
Renewable energy production:	<input type="text" value="368,55"/>	MWh/a
CO ₂ reduction:	<input type="text" value="177,27"/>	t CO ₂ /a

12) Vulnerable population group(s) targeted

13) Financial savings €

14) Life expectancy of the action years

15) Return on Investment %

16) Jobs created full-time equivalent

17) Other figures

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

19) Sector(s)

20) Outcome(s) reached

Description: 1000 characters left

Related indicator:

21) Vulnerable population group(s) targeted

22) Avoided cost €

23) Life expectancy of the action years

24) Return on Investment %

25) Jobs created full-time equivalent

26) Other figures

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

28) Outcome(s) reached

Description: 1000 characters left

Related indicator:

Further information

30) Weblink

31) Video link

32) Picture

Key actions

📄 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty
 📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation 803 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📄 Insert additional rows as needed

Additional comments:

9) Total implementation costs: 148.700 €

Source of funding: €

Investment costs: €

Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: 📄 To be filled in only for the concerned sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

11) Estimated impacts:

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted:

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [numerical value] [Unit]

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached:

Description: 948 characters left

Related indicator: [numerical value]

21) Vulnerable population group(s) targeted: All

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [numerical value] [Unit]

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted:

28) Outcome(s) reached:

Description: 1000 characters left

Related indicator: [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📄 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ...ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection meas
781 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens
📄 Insert additional rows as needed

Additional comments

9) Total implementation costs: 1761 €

Source of funding: [Drop-down] €

Investment costs: €

Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📄 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a

Renewable energy production: [] MWh/a

CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €

14) Life expectancy of the action: [] years

15) Return on Investment: [] %

16) Jobs created: [] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: ...to create alert and communication systems with the population
939 characters left

Related indicator: mber of warning and communication systems with the populat

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: [] years

24) Return on Investment: [] %

25) Jobs created: [] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: []
1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action
 Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action
 Local authority

4) Responsible body
 Mayor

5) Short description
 is proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation and
 613 characters left

6) Implementation timeframe
 Start: 2022
 End: 2030

7) Implementation status
 Not started

8) Stakeholders involved
 Sub-national governments(s) and/or agency(ies) 📌 Insert additional rows as needed

Additional comments

9) Total implementation costs
 25.704 €
 Source of funding: [Drop-down] €
 Investment costs: [Drop-down] €
 Non-investment costs: [Drop-down] €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector
 [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts
 Energy savings: [Drop-down] MWh/a
 Renewable energy production: [Drop-down] MWh/a
 CO₂ reduction: [Drop-down] t CO₂/a

12) Vulnerable population group(s) targeted
 [Drop-down]

13) Financial savings
 [Drop-down] €

14) Life expectancy of the action
 [Drop-down] years

15) Return on Investment
 [Drop-down] %

16) Jobs created
 [Drop-down] full-time equivalent

17) Other figures
 [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed
 Other

19) Sector(s)
 Education

20) Outcome(s) reached
 Description: offer training to all municipal workers
 961 characters left
 Related indicator: number of municipal workers who have received the training [numerical value] [Unit]

21) Vulnerable population group(s) targeted
 All

22) Avoided cost
 1.500.000 €

23) Life expectancy of the action
 [Drop-down] years

24) Return on Investment
 [Drop-down] %

25) Jobs created
 [Drop-down] full-time equivalent

26) Other figures
 [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted
 [Drop-down]

28) Outcome(s) reached
 Description: [Drop-down]
 1000 characters left
 Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink
 www. [input]

31) Video link
 www. [input]

32) Picture
 [upload]

Key actions

📄 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Energy advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens
📄 Insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €

Investment costs: [Drop-down] €

Non-investment costs: [Drop-down] €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📄 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [Drop-down] MWh/a

Renewable energy production: [Drop-down] MWh/a

CO₂ reduction: [Drop-down] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [Drop-down] €

14) Life expectancy of the action: [Drop-down] years

15) Return on Investment: [Drop-down] %

16) Jobs created: [Drop-down] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [Drop-down] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [Drop-down] €

23) Life expectancy of the action: [Drop-down] years

24) Return on Investment: [Drop-down] %

25) Jobs created: [Drop-down] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [Drop-down] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. [Drop-down]

31) Video link: www. [Drop-down]

32) Picture: [upload]

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Pont de Molins

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year** 2019

2) **Population in the inventory year** 529

3) **Emission factors**

- IPCC (Intergovernmental Panel on Climate Change)
- LCA (Life Cycle Assessment)
- National/sub-national

Specify Source

4) **Emission reporting unit**

- tonnes CO₂
- tonnes CO₂ equivalent

5) **Methodological note**

1000 chars left

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	145,688	0	0	0	0	0	0	0	0	0	0	0	0	0	127,177	0	0	272,865
Municipal buildings, equipment/facilities	33,088	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	127,177	NE	NE	160,265
Public lighting	112,6	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	112,6
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	1355,991	0	0	144,262171	202,751679	0	0	0	0	0	0	0	0	0	0	0	0	1703,00485
Institutional buildings	1355,991	0	0	144,262171	202,751679	0	0	0	0	0	0	0	0	0	0	0	0	1703,00485
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	755,11	0	0	258,277621	257,3045873	0	0	0	0	0	0	0	0	0	0	0	0	1270,69221
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2256,789	0	0	402,539792	460,0562663	0	0	0	0	0	0	0	0	0	127,177	0	0	3246,56206
TRANSPORT																		
Municipal fleet	0	0	0	0	0	36,0098	0	0	0	0	0	0	0	0	0	0	0	36,0098
Road	NE	NE	NE	NE	NE	36,0098	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	36,0098
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	9226,5081	738,895577	0	0	0	0	0	0	0	0	0	0	9965,40367
Road	NE	NE	NE	NE	NE	9226,5081	738,895577	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	9965,40367
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	9262,5179	738,895577	0	0	0	0	0	0	0	0	0	0	10001,4138
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2256,789	0	0	402,539792	460,0562663	9262,5179	738,895577	0	0	0	0	0	0	0	127,177	0	0	13247,9755

Covenant Key Sectors

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	0	0	0

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity	Heat/cold	Fossil fuels							Renewable energies						
		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
National	Local	0,202	0,227	0,267	0,267	0,249									
0,481	0,481														

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	248,6943341	0
Solid waste disposal	248,6943341	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m3)
Wastewater treatment and discharge	NE	
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓜ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓜ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓜ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
<input type="checkbox"/> Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
<input type="checkbox"/> Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	Low	Low	No change	No change	Long-term
<input type="checkbox"/> Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
<input type="checkbox"/> Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
<input type="checkbox"/> Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓜ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	High	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	High	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

Ⓜ Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
Ⓜ Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	Ⓜ Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Ⓜ Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
Ⓜ Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 429,36 MWh/a
 Renewable energy production: 0 MWh/a
 CO₂ reduction: 206,52 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: council will create a local community of renewable energy that will start in municipal facilities with the aim of connecting the whole mu
844 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 150.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	ants and subsic	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	428,83	MWh/a
Renewable energy production:	57,34	MWh/a
CO ₂ reduction:	206,27	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 47.083 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 475,39 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 228,66 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €
14) Life expectancy of the action: years
15) Return on Investment: %
16) Jobs created: full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €
23) Life expectancy of the action: years
24) Return on Investment: %
25) Jobs created: full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] 948 characters left
to collect and reuse rainwater in public facilities

Related indicator: [m3 rainwater collected and reused] [m3]

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left
Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Cabanelles

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.

ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0			0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

Budget period

From:	2012
To:	2030

ⓘ % to be reported only for signatories also committed to adaptation

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

1000 chars left

Emission Inventory

ⓘ To be filled in only if your local authority is committed to mitigation.

ⓘ Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) Inventory year

2005

2) Population in the inventory year

249

3) Emission factors

IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national

Specify

Source

4) Emission reporting unit

tonnes CO₂
 tonnes CO₂ equivalent

5) Methodological note

1000 chars left

A. Final energy consumption

ⓘ Please note that for separating decimals dot (.) is used. No thousand separators are allowed.

ⓘ Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.

ⓘ Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	86,19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86,19
Municipal buildings, equipment/facilities	57,3	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	57,3
Public lighting	28,89	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	28,89
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tertiary (non-municipal) buildings, equipment/facilities	395,82	0	23,73	45,03	0	0	0	0	0	0	0	0	0	0	0	0	0	464,58
Institutional buildings	395,82	NE	0	23,73	45,03	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	464,58
Other	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Residential buildings	547,64	0	0	124,17	212,37	0	0	0	0	0	0	0	0	0	0	0	0	884,18
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1029,65	0	0	147,9	257,4	0	0	0	0	0	0	0	0	0	0	0	0	1434,95
TRANSPORT																		
Municipal fleet	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Road	NE	NE	NE	NE	NE	8	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	8
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	3931,09	689,31	0	0	0	0	0	0	0	0	0	0	4620,4
Road	NE	NE	NE	NE	NE	3931,09	689,31	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	4620,4
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	3939,09	689,31	0	0	0	0	0	0	0	0	0	0	4628,4
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1029,65	0	0	147,9	257,4	3939,09	689,31	0	0	0	0	0	0	0	0	0	0	6063,35

[Covenant Key Section](#)

B. Energy supply

ⓘ Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	0	
Sales Guarantees of Origins (within the municipality boundaries)	0	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0		0
Hydroelectric	0		0
Photovoltaics	148,202	0,408	60,46036732
Geothermal	0		0
Other	0		0
TOTAL	148,202		60,46036732

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]												CO ₂ / CO ₂ eq. emissions [t]	
			Fossil fuels							Other						
	from renewable sources	from non-renewable sources	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources	
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]												CO ₂ / CO ₂ eq. emissions [t]	
			Fossil fuels							Other						
	from renewable sources	from non-renewable sources	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources	
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

ⓘ Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies					
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249								

C2. Please complete in case non-energy related sectors are included:

ⓘ Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	207,34	0
Solid waste disposal	207,34	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

ⓘ The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- ① Undefined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- ② To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
① Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	Low	Low	No change	No change	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	High	High	Increase	Increase	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	Moderate	Moderate	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
① Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Moderate	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls) [Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Transport	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	Moderate	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Low	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Low	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

① Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
① Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	① Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
① Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

1) Action plan(s) and other related documents

1) Action plan(s)

① Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Sustainable Energy and Climate Action Plans (PAESC) Garrotxa d'Empordà	The "Covenant of Mayors for Local Sustainable Energy" is the European Commission's first ambitious initiative to tackle climate change at the local	jul-22 [dd/mm/yy]	Diputació de Girona and town halls	Integrated climate plan (ad	Equal to municipality's b	Catalan	<input checked="" type="checkbox"/>
		[dd/mm/yy]					<input type="checkbox"/>

2) Other related documents

① Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
SEAP monitoring report for all study municipalities	This report corresponds to the assessment of the actions implemented in the municipalities as well as the emissions monitoring inventory.	2016	External consultants	Emission inventory	Greater than municipality's bo	Data of the municipalities and the administration	Catalan	<input checked="" type="checkbox"/>
IRE emissions reference inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>
ISE Emission Tracking Inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>

Comments [v]

① Click on the [+/-] button on the left to expand or collapse.

List of actions

① Please specify the total number of (mitigation and adaptation) actions planned per sector. For mitigation actions, estimate their impacts in your plan's time horizon (2020, 2030 and/or other).

3) Mitigation actions

① Only if your local authority is committed to mitigation.

Mitigation sectors	Number of actions included in the plan
Municipal buildings, equipment/facilities	10
Tertiary (non municipal) buildings, equipment/facilities	0
Residential buildings	3
Industry	0
Transport	6
Waste	8
Local Electricity Production	6
Local Heat/Cold Production	2
Others	4
TOTAL	39

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
50,00%			50,00%
			100,00%
75,00%	12,50%		12,50%
			100,00%
100,00%			

Estimated impacts in [2020, 2030 and/or other longer-term time horizon]		
in relation to:		BEI (option 1)
Energy savings	Renewable energy production	CO ₂ reduction
MWh/a	MWh/a	t CO ₂ /a
19,22	0	294,96
0	0	0
534,72	0	280,47
0	0	0
657,5	0	522,83
237,08	0	387,2
0	1024,21	578,87
291,88	0	115,97
0	0	504,65
1740,4	1024,21	2684,95

4) Adaptation actions

① Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
Buildings	1
Transport	
Energy	
Water	5
Waste	
Land Use Planning	1
Agriculture & Forestry	1
Environment & Biodiversity	
Health	2
Civil Protection & Emergency	2
Tourism	
Education	
ICT (Information & communication technologies)	
Other	2
TOTAL	14

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
	0,00%		100,00%
			100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
			100,00%
	0,00%		100,00%

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 181,08 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 87,1 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promote a citizen renewable energy installation

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: It is proposed to promote a small solar park, with citizen participation and funding. 915 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

500.000 €

Source of funding: [Drop-down] €

Investment costs: €

Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	and use plannii	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	0	MWh/a
Renewable energy production:	675	MWh/a
CO ₂ reduction:	324,67	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📄 insert additional rows as needed

Additional comments

9) Total implementation costs: 30.141 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other	Waste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Grants and subsidies	Other

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 215,53 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 103,67 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €
14) Life expectancy of the action: years
15) Return on Investment: %
16) Jobs created: full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €
23) Life expectancy of the action: years
24) Return on Investment: %
25) Jobs created: full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments:

9) Total implementation costs: 148.700 €

Source of funding:	[Drop-down]	€
Investment costs:		€
Non-investment costs:		€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts:

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] | [numerical value] | [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached:

Description: to collect and reuse rainwater in public facilities. 948 characters left

Related indicator: m3 rainwater collected and reused | m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] | [numerical value] | [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached:

Description: 1000 characters left

Related indicator: [Please specify] | [numerical value] | [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

	1761	€
Source of funding:	[Drop-down]	
Investment costs:		€
Non-investment costs:		€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: [] €
23) Life expectancy of the action: 1.500.000 years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action:

3) Origin of the action:

4) Responsible body:

5) Short description: 620 characters left

6) Implementation timeframe

Start:	<input type="text" value="2022"/>	
End:	<input type="text" value="2030"/>	

7) Implementation status:

8) Stakeholders involved: 📌 insert additional rows as needed

Additional comments:

9) Total implementation costs: €

Source of funding:	<input type="text" value="[Drop-down]"/>
Investment costs:	<input type="text" value=""/>
Non-investment costs:	<input type="text" value=""/>

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector:

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	📌 To be filled in only for the concerned sector
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	

11) Estimated impacts

Energy savings:	<input type="text" value=""/>	MWh/a
Renewable energy production:	<input type="text" value=""/>	MWh/a
CO ₂ reduction:	<input type="text" value=""/>	t CO ₂ /a

12) Vulnerable population group(s) targeted:

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed:

19) Sector(s):

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [numerical value] [Unit]

21) Vulnerable population group(s) targeted:

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted:

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① 1 or multiple choice, insert additional rows as needed

19) Sector(s)

① 1 or multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels												Renewable energies														
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
IPCC Energy carriers	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood		Wood Waste	Other Primary solid biomass	-	-	
Sustainability criteria ^(a)													(c)	(ns)	(c)	(ns)	(b)	(ns)			(c)	(ns)					
IPCC	t CO ₂ /MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
	t CO ₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
LCA	t CO ₂ /MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(e)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(d)

^(b) if sustainability criteria during production are fulfilled

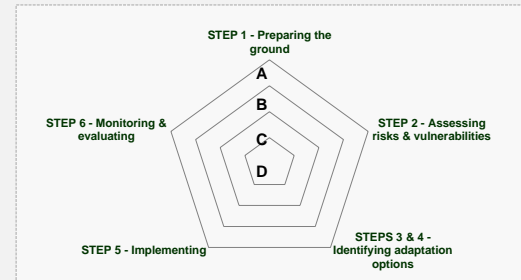
^(ns) if sustainability criteria during production are not fulfilled

- IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable, (s) sustainable, (ns) not sustainable
- Taking into consideration also the CH₄ and the N₂O emissions from combustion in stationary sources
- If choosing to report in CO₂eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
STEP 6 - Monitoring and evaluating INDICATORS	Implementation framework set, with clear milestones		
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		500 chars left
	Coordinated action between mitigation and adaptation set		
	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		500 chars left
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Cistella

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.

ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0			0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

ⓘ % to be reported only for signatories also committed to adaptation

Budget period	
From:	2012
To:	2030

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

1000 chars left

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BEI) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (MEI) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																
	Electricity	District heating and cooling	Fossil fuels								Renewable energies						Total
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal	
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																	
Municipal buildings, equipment/facilities	99,186	0	0	0	27.5	0	0	0	0	0	0	0	0	0	0	0	126,686
Municipal buildings, equipment/facilities	66,353	NE	NE	NE	27.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	93,853
Public lighting	32,833	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	32,833
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	204,661	0	0	44,7322158	69,43431265	0	0	0	0	0	0	0	0	0	0	0	318,827528
Institutional buildings	204,661	NE	NE	44,7322158	69,43431265	0	0	0	0	0	0	0	0	0	0	0	318,827528
Other	NE	0	NE	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	829,154	0	0	241,465846	129,5020779	0	0	0	0	0	0	0	0	0	0	0	1209,12192
Industry	3,216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,216
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-transport)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1136,217	0	0	286,198062	226,4363906	0	0	0	0	0	0	0	0	0	0	0	1648,85145
TRANSPORT																	
Municipal fleet	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Road	NE	NE	NE	NE	NE	9	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	9
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	5161,0601	416,91793	0	0	0	0	0	0	0	0	0	5577,97803
Road	NE	NE	NE	NE	NE	5161,0601	416,91793	NE	NE	NE	NE	NE	NE	NE	NE	NE	5577,97803
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	5170,0601	416,91793	0	0	0	0	0	0	0	0	0	5566,97803
OTHER																	
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1136,217	0	0	286,198062	226,4363906	5170,0601	416,91793	0	0	0	0	0	0	0	0	0	7235,82948

Covenant Key Sector

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	0	
Sales Guarantees of Origins (within the municipality boundaries)	0	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	7,479	0,478	3,571370732
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	7,479		3,571370732

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]												CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels								Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal											
Combined Heat and Power	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (ETS and large-scale plants > 20 MW not recommended)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]												CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels								Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal											
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels								Renewable energies					
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	69,65699049	0
Solid waste disposal	69,65699049	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Wastewater treatment and discharge	NE	
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- ① Undefined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- ② To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
① Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
① Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	High	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls) [Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Transport	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	High	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

Ⓜ Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
Ⓜ Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	Ⓜ Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Ⓜ Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
Ⓜ Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

1) Action plan(s) and other related documents

1) Action plan(s)

ⓘ Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Sustainable Energy and Climate Action Plans (PAESC) Garrotxa d'Empordà	The "Covenant of Mayors for Local Sustainable Energy" is the European Commission's first ambitious initiative to tackle climate change at the local	jul-22 [dd/mm/yy]	Diputació de Girona and town halls	Integrated climate plan (ad	Equal to municipality's b	Catalan	<input checked="" type="checkbox"/>
		[dd/mm/yy]					<input type="checkbox"/>

2) Other related documents

ⓘ Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
SEAP monitoring report for all study municipalities	This report corresponds to the assessment of the actions implemented in the municipalities as well as the emissions monitoring inventory.	2016	External consultants	Emission inventory	Greater than municipality's bo	Data of the municipalities and the administration	Catalan	<input checked="" type="checkbox"/>
IRE emissions reference inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>
ISE Emission Tracking Inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

List of actions

ⓘ Please specify the total number of (mitigation and adaptation) actions planned per sector. For mitigation actions, estimate their impacts in your plan's time horizon (2020, 2030 and/or other).

3) Mitigation actions

ⓘ Only if your local authority is committed to mitigation.

Mitigation sectors	Number of actions included in the plan
Municipal buildings, equipment/facilities	10
<u>Tertiary (non municipal) buildings, equipment/facilities</u>	0
<u>Residential buildings</u>	3
<u>Industry</u>	0
Transport	7
Waste	7
Local Electricity Production	6
Local Heat/Cold Production	3
Others	1
TOTAL	37

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
60,00%			40,00%
			100,00%
14,29%			85,71%
71,43%	50,00%		28,57%
			100,00%
			100,00%
100,00%			

Estimated impacts in [2020, 2030 and/or other longer-term time horizon]		
in relation to:		BEI (option 1)
Energy savings	Renewable energy production	CO ₂ reduction
MWh/a	MWh/a	t CO ₂ /a
35,42	0	313,29
0	0	0
535,16	0	179,59
0	0	0
623,9	0	680,12
88,66	0	368,81
0	966,76	581,02
319,41	0	113,16
0	0	375,42
1602,55	966,76	2611,41

4) Adaptation actions

ⓘ Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
<u>Buildings</u>	1
<u>Transport</u>	
<u>Energy</u>	
<u>Water</u>	9
<u>Waste</u>	
<u>Land Use Planning</u>	1
<u>Agriculture & Forestry</u>	1
<u>Environment & Biodiversity</u>	
<u>Health</u>	2
<u>Civil Protection & Emergency</u>	3
<u>Tourism</u>	1
Education	
ICT (Information & communication technologies)	
Other	2
TOTAL	20

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
	0,00%		100,00%
	11,11%		88,89%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	154,03	MWh/a
Renewable energy production:	0	MWh/a
CO ₂ reduction:	74,09	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promote a citizen renewable energy installation

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: It is proposed to promote a small solar park, with citizen participation and funding. 915 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 500.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	and use plannii	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	0	MWh/a
Renewable energy production:	675	MWh/a
CO ₂ reduction:	324,67	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 24.625 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other	Waste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Grants and subsidies	Other

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 80,6 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 38,77 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] to collect and reuse rainwater in public facilities 948 characters left

Related indicator: [] m3 rainwater collected and reused [] m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar
613 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📘 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: 1.500.000 €

14) Life expectancy of the action: [] years

15) Return on Investment: [] %

16) Jobs created: [] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers
961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €

23) Life expectancy of the action: [] years

24) Return on Investment: [] %

25) Jobs created: [] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: []
1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① 1 or multiple choice, insert additional rows as needed

19) Sector(s)

① 1 or multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels													Renewable energies													
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
IPCC Energy carriers	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood		Wood Waste	Other Primary solid biomass	-	-	
Sustainability criteria ^(a)													(s)	(ns)	(s)	(ns)	(s)	(ns)			(s)	(ns)					
IPCC	t CO ₂ /MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
	t CO ₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
LCA	t CO ₂ /MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(h)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(h)

^(b) if sustainability criteria during production are fulfilled

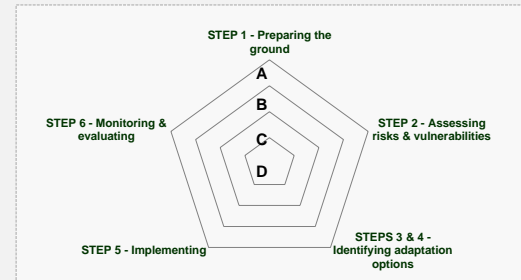
^(ns) if sustainability criteria during production are not fulfilled

- IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable (s) sustainable, (ns) not sustainable
- Taking into consideration also the CH₄ and the N₂O emissions from combustion in stationary sources
- If choosing to report in CO₂eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
STEP 6 - Monitoring and evaluating INDICATORS	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
	Implementation framework set, with clear milestones		500 chars left
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		
	Coordinated action between mitigation and adaptation set		500 chars left
	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		500 chars left

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Lladó

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.
 ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0	Total		0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

Budget period

From:	2012
To:	2030

ⓘ % to be reported only for signatories also committed to adaptation

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

1000 chars left

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

1000 chars left

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	101,097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101,097
Municipal buildings, equipment/facilities	101,097	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	101,097
Public lighting	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	448,232	0	0	65,7131658	88,04015866	0	0	0	0	0	0	0	0	0	0	0	0	601,985324
Institutional buildings	448,232	0	0	65,7131658	88,04015866	0	0	0	0	0	0	0	0	0	0	0	0	601,985324
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	1187,425	0	0	423,703665	361,2740183	0	0	0	0	0	0	0	0	0	0	0	0	1972,40268
Industry	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1736,754	0	0	489,416831	449,314177	0	0	0	0	0	0	0	0	0	0	0	0	2675,48501
TRANSPORT																		
Municipal fleet	0	0	0	0	0	20,64	0	0	0	0	0	0	0	0	0	0	0	20,64
Road	NE	NE	NE	NE	NE	20,64	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	20,64
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	803,666759	10829,1473	0	0	0	0	0	0	0	0	0	0	11632,8141
Road	NE	NE	NE	NE	NE	NE	803,666759	10829,1473	NE	NE	NE	NE	NE	NE	NE	NE	NE	11632,8141
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	20,64	803,666759	10829,1473	0	0	0	0	0	0	0	0	0	11653,4541
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1736,754	0	0	489,416831	449,314177	20,64	803,666759	10829,1473	0	0	0	0	0	0	0	0	0	14328,9391

Covenant Key Sectors

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	0	0	0

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	210,8878922	0
Solid waste disposal	210,8878922	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

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Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- ① Undefined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- ② To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
① Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
① Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	High	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	High	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

① Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
① Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	① Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
① Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

1) Action plan(s) and other related documents

1) Action plan(s)

ⓘ Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Sustainable Energy and Climate Action Plans (PAESC) Garrotxa d'Empordà	The "Covenant of Mayors for Local Sustainable Energy" is the European Commission's first ambitious initiative to tackle climate change at the local	jul-22 [dd/mm/yy]	Diputació de Girona and town halls	Integrated climate plan (ad	Equal to municipality's b	Catalan	<input checked="" type="checkbox"/>
		[dd/mm/yy]					<input type="checkbox"/>

2) Other related documents

ⓘ Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
SEAP monitoring report for all study municipalities	This report corresponds to the assessment of the actions implemented in the municipalities as well as the emissions monitoring inventory.	2016	External consultants	Emission inventory	Greater than municipality's bo	Data of the municipalities and the administration	Catalan	<input checked="" type="checkbox"/>
IRE emissions reference inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>
ISE Emission Tracking Inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

List of actions

ⓘ Please specify the total number of (mitigation and adaptation) actions planned per sector. For mitigation actions, estimate their impacts in your plan's time horizon (2020, 2030 and/or other).

3) Mitigation actions

ⓘ Only if your local authority is committed to mitigation.

Mitigation sectors	Number of actions included in the plan
Municipal buildings, equipment/facilities	6
<u>Tertiary (non municipal) buildings, equipment/facilities</u>	0
<u>Residential buildings</u>	2
<u>Industry</u>	0
Transport	7
Waste	2
Local Electricity Production	6
Local Heat/Cold Production	2
Others	0
TOTAL	25

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
33,33%			66,67%
			100,00%
14,29%			85,71%
	50,00%		50,00%
			100,00%
			100,00%

Estimated impacts in [2020, 2030 and/or other longer-term time horizon]		
in relation to:		BEI (option 1)
Energy savings	Renewable energy production	CO ₂ reduction
MWh/a	MWh/a	t CO ₂ /a
62,26	0	177,9
0	0	0
940,08	0	452,18
0	0	0
1349,83	0	1033,73
376,46	0	181,08
347,33	1006,75	794,7
588,6	0	216,97
0	0	0
3664,56	1006,75	2856,56

4) Adaptation actions

ⓘ Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
<u>Buildings</u>	1
<u>Transport</u>	
<u>Energy</u>	
<u>Water</u>	9
<u>Waste</u>	
<u>Land Use Planning</u>	2
<u>Agriculture & Forestry</u>	1
<u>Environment & Biodiversity</u>	
<u>Health</u>	2
<u>Civil Protection & Emergency</u>	3
<u>Tourism</u>	
Education	
ICT (Information & communication technologies)	
Other	2
TOTAL	20

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
	0,00%		100,00%
	11,11%		88,89%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 321,67 MWh/a
 Renewable energy production: 0 MWh/a
 CO₂ reduction: 154,72 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: council will create a local community of renewable energy that will start in municipal facilities with the aim of connecting the whole mu
844 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 150.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	ants and subsic	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	347,33	MWh/a
Renewable energy production:	189,5	MWh/a
CO ₂ reduction:	167,07	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 76.633 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 342,24 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 164,62 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] to collect and reuse rainwater in public facilities 948 characters left

Related indicator: [] m3 rainwater collected and reused [] m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: g and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: ber of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① 1 or multiple choice, insert additional rows as needed

19) Sector(s)

① 1 or multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels													Renewable energies													
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood				Wood Waste	Other Primary solid biomass	
Sustainability criteria ^(a)													(s)	(ns)	(s)	(ns)	(s)	(ns)	(s)	(ns)	(s)	(ns)					
IPCC Energy carriers																											
IPCC	t CO ₂ /MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
	t CO ₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
LCA	t CO ₂ /MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(h)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(h)

^(b) if sustainability criteria during production are fulfilled

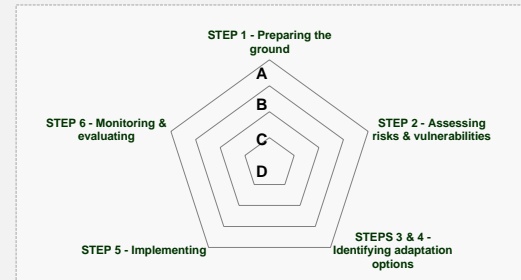
^(d) if sustainability criteria during production are not fulfilled

- IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable, (s) sustainable, (ns) not sustainable
- Taking into consideration also the CH₄ and the N₂O emissions from combustion in stationary sources
- If choosing to report in CO₂eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
STEP 6 - Monitoring and evaluating INDICATORS	Implementation framework set, with clear milestones		
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		500 chars left
	Coordinated action between mitigation and adaptation set		
	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		500 chars left
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Llers

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.

ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0			0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

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6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

Budget period

From:	2012
To:	2030

ⓘ % to be reported only for signatories also committed to adaptation

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

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Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

 1000 chars left

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	457,275	0	0	7,0895	48,17	0	0	0	0	0	0	0	0	0	0	0	0	512,5345
Municipal buildings, equipment/facilities	212,4	NE	NE	7,0895	48,17	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	267,6595
Public lighting	244,875	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	244,875
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	2466,94	0	0	147,9	491,46	0	0	0	0	0	0	0	0	0	0	0	0	3106,3
Institutional buildings	2466,94	0	0	147,9	491,46	0	0	0	0	0	0	0	0	0	0	0	0	3106,3
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	1780,83	0	0	562,38	1492,82	0	0	0	0	0	0	0	0	0	0	0	0	3836,03
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-residential)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	4705,045	0	0	717,3695	2032,45	0	0	0	0	0	0	0	0	0	0	0	0	7454,8645
TRANSPORT																		
Municipal fleet	0	0	0	0	0	11,94018	2,106708	0	0	0	0	0	0	0	0	0	0	14,046888
Road	NE	NE	NE	NE	NE	11,94018	2,106708	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	14,046888
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	16879,12	2743,23	0	0	0	0	0	0	0	0	0	0	19622,35
Road	NE	NE	NE	NE	NE	16879,12	2743,23	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	19622,35
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	16891,0602	2745,33671	0	0	0	0	0	0	0	0	0	0	19636,3969
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4705,045	0	0	717,3695	2032,45	16891,0602	2745,33671	0	0	0	0	0	0	0	0	0	0	27091,2614

Covenant Key Section

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	7,6	0,480	3,650454996
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	7,6		3,650454996

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	1192,37	0
Solid waste disposal	1192,37	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓛ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓛ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓛ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓛ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	High	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	High	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Low	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

Ⓜ Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
Ⓜ Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	Ⓜ Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Ⓜ Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
Ⓜ Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

1) Action plan(s) and other related documents

1) Action plan(s)

ⓘ Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Sustainable Energy and Climate Action Plans (PAESC) Garrotxa d'Empordà	The "Covenant of Mayors for Local Sustainable Energy" is the European Commission's first ambitious initiative to tackle climate change at the local	jul-22 [dd/mm/yy]	Diputació de Girona and town halls	Integrated climate plan (ad	Equal to municipality's b	Catalan	<input checked="" type="checkbox"/>
		[dd/mm/yy]					<input type="checkbox"/>

2) Other related documents

ⓘ Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
SEAP monitoring report for all study municipalities	This report corresponds to the assessment of the actions implemented in the municipalities as well as the emissions monitoring inventory.	2016	External consultants	Emission inventory	Greater than municipality's bo	Data of the municipalities and the administration	Catalan	<input checked="" type="checkbox"/>
IRE emissions reference inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>
ISE Emission Tracking Inventory	Data on CO2 emissions and consumption in each municipality	2021	Diputació de Girona	Emission inventory	Equal to municipality's bounda	Emissions inventory	Catalan	<input checked="" type="checkbox"/>

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

List of actions

ⓘ Please specify the total number of (mitigation and adaptation) actions planned per sector. For mitigation actions, estimate their impacts in your plan's time horizon (2020, 2030 and/or other).

3) Mitigation actions

ⓘ Only if your local authority is committed to mitigation.

Mitigation sectors	Number of actions included in the plan
Municipal buildings, equipment/facilities	11
<u>Tertiary (non municipal) buildings, equipment/facilities</u>	0
<u>Residential buildings</u>	3
<u>Industry</u>	0
Transport	5
Waste	7
Local Electricity Production	5
Local Heat/Cold Production	3
Others	1
TOTAL	35

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
63,64%			36,36%
			100,00%
			100,00%
71,43%	14,29%		14,29%
			100,00%
100,00%			

Estimated impacts in [2020, 2030 and/or other longer-term time horizon]		
in relation to:		BEI (option 1)
Energy savings	Renewable energy production	CO ₂ reduction
MWh/a	MWh/a	t CO ₂ /a
339,74	0	664,15
0	0	0
2671,532	0	1386,16
0	0	0
3327,89	0	2251,02
1363,41	0	1285,23
0	1298,12	1305,91
1484,37	0	566,99
0	0	375,42
9186,942	1298,12	7834,88

4) Adaptation actions

ⓘ Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
<u>Buildings</u>	1
<u>Transport</u>	
<u>Energy</u>	
<u>Water</u>	9
<u>Waste</u>	
<u>Land Use Planning</u>	2
<u>Agriculture & Forestry</u>	1
<u>Environment & Biodiversity</u>	
<u>Health</u>	2
<u>Civil Protection & Emergency</u>	2
<u>Tourism</u>	
Education	
ICT (Information & communication technologies)	
Other	2
TOTAL	19

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
	0,00%		100,00%
			88,89%
	11,11%		
			100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
	0,00%		100,00%
			100,00%
	0,00%		100,00%

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 675,62 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 324,97 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Installing a biomass boiler at school

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installing a biomass boiler at school 963 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Education sector 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 155.385 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Heat/Cold Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other	Waste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Grants and subsidies	Other

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 82,05 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 21,9 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €
14) Life expectancy of the action: years
15) Return on Investment: %
16) Jobs created: full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €
23) Life expectancy of the action: years
24) Return on Investment: %
25) Jobs created: full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation
 Adaptation
 Energy poverty 📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description
894 characters left

6) Implementation timeframe
 Start:
 End:

7) Implementation status

8) Stakeholders involved 📌 insert additional rows as needed

Additional comments

9) Total implementation costs €
 Source of funding: €
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector 📌 To be filled in only for the concerned sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="Photovoltaics and use planning"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="Waste & wastewater management"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="Other"/>

11) Estimated impacts

Energy savings:	<input type="text" value="1239,47"/>	MWh/a
Renewable energy production:	<input type="text" value="0"/>	MWh/a
CO ₂ reduction:	<input type="text" value="596,18"/>	t CO ₂ /a

12) Vulnerable population group(s) targeted

13) Financial savings €

14) Life expectancy of the action years

15) Return on Investment %

16) Jobs created full-time equivalent

17) Other figures [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

19) Sector(s)

20) Outcome(s) reached

Description:
1000 characters left

Related indicator: [numerical value] [Unit]

21) Vulnerable population group(s) targeted

22) Avoided cost €

23) Life expectancy of the action years

24) Return on Investment %

25) Jobs created full-time equivalent

26) Other figures [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

28) Outcome(s) reached

Description:
1000 characters left

Related indicator: [numerical value] [Unit]

Further information

30) Weblink

31) Video link

32) Picture

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments:

9) Total implementation costs: 148.700 €

Source of funding:	[Drop-down]	€
Investment costs:		€
Non-investment costs:		€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts:

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] | [numerical value] | [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached:

Description: to collect and reuse rainwater in public facilities 948 characters left

Related indicator: m3 rainwater collected and reused | m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] | [numerical value] | [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached:

Description: 1000 characters left

Related indicator: [Please specify] | [numerical value] | [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: g and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul [] []

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: []
1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start:	2022	
End:	2030	

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

25.704	€
Source of funding: [Drop-down]	
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Actions

① Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① For multiple choice, insert additional rows as needed

19) Sector(s)

① For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
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C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels													Renewable energies													
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood				Wood Waste	Other Primary solid biomass	
Sustainability criteria ^(a)													(s)	(ns)	(s)	(ns)	(s)	(ns)	(s)	(ns)	(s)	(ns)					
IPCC Energy carriers																											
IPCC	t CO ₂ /MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
LCA	t CO ₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
	t CO ₂ /MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(h)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(h)

^(b) if sustainability criteria during production are fulfilled

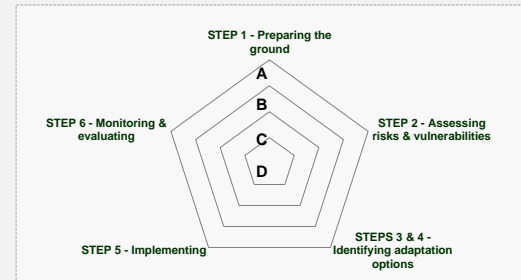
^(d) if sustainability criteria during production are not fulfilled

- IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable, (s) sustainable, (ns) not sustainable
- Taking into consideration also the CH₄ and the N₂O emissions from combustion in stationary sources
- If choosing to report in CO₂eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
STEP 6 - Monitoring and evaluating INDICATORS	Implementation framework set, with clear milestones		
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		500 chars left
	Coordinated action between mitigation and adaptation set		
STEP 6 - Monitoring and evaluating INDICATORS	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		500 chars left
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Sant Llorenç de la Muga

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.

ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0			0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Delete categories that are not applicable.

ⓘ Delete categories that are not applicable.

ⓘ Delete categories that are not applicable.

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

Budget period

From:	2012
To:	2030

ⓘ % to be reported only for signatories also committed to adaptation

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

1000 chars left

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

1000 chars left

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	94,254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94,254
Municipal buildings, equipment/facilities	20,479	0	0	0	0	0	0	0	0	0	NE	NE	NE	NE	NE	NE	NE	20,479
Public lighting	73,775	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	73,775
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	285,97	0	0	17,31	63,4	0	0	0	0	0	0	0	0	0	0	0	0	366,68
Institutional buildings	285,97	0	0	17,31	63,4	0	0	0	0	0	0	0	0	0	0	0	0	366,68
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	618,3	0	0	145,89	351,25	0	0	0	0	0	0	0	0	0	0	0	0	1115,44
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	998,524	0	0	163,2	414,65	0	0	0	0	0	0	0	0	0	0	0	0	1576,374
TRANSPORT																		
Municipal fleet	0	0	0	0	0	13,9107	0	0	0	0	0	0	0	0	0	0	0	13,9107
Road	NE	NE	NE	NE	NE	13,9107	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	13,9107
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	2422,45	521,39	0	0	0	0	0	0	0	0	0	0	2943,84
Road	NE	NE	NE	NE	NE	2422,45	521,39	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	2943,84
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	2436,3607	521,39	0	0	0	0	0	0	0	0	0	0	2957,7507
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	998,524	0	0	163,2	414,65	2436,3607	521,39	0	0	0	0	0	0	0	0	0	0	4534,1247

Covenant Key Sectors

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	0	0	0

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management		
Solid waste disposal	167,41	0
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge		
Wastewater treatment and discharge	NE	
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓛ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓛ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓛ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	High	High	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	High	High	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	High	High	Increase	Increase	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓛ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	High	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	High	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	High	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Moderate	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	High	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	High	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	High	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	High	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Moderate	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	High	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	High	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Moderate	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Moderate	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	High	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
① Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	① Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

① Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
① Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 116,16 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 55,87 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: council will create a local community of renewable energy that will start in municipal facilities with the aim of connecting the whole mu
844 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Ongoing

8) Stakeholders involved: Citizens

📄 insert additional rows as needed

Additional comments

9) Total implementation costs: 150.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	ants and subsic	[drop-down]	[drop-down]

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	174,1	MWh/a
Renewable energy production:	27,37	MWh/a
CO ₂ reduction:	83,74	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📄 insert additional rows as needed

Additional comments

9) Total implementation costs: 52.008 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 174,02 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 83,7 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] to collect and reuse rainwater in public facilities 948 characters left

Related indicator: [] m3 rainwater collected and reused [] m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① 1 or multiple choice, insert additional rows as needed

19) Sector(s)

① 1 or multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels													Renewable energies													
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
IPCC Energy carriers	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood		Wood Waste	Other Primary solid biomass	-	-	
Sustainability criteria ^(a)													(c)	(ns)	(c)	(ns)	(b)	(ns)			(c)	(ns)					
IPCC	tCO₂/MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
	tCO₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
LCA	tCO₂/MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(e)
	tCO₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(e)

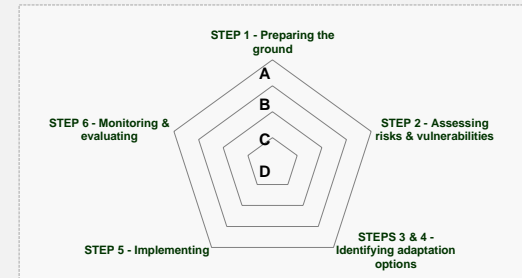
^(b) if sustainability criteria during production are fulfilled
^(ns) if sustainability criteria during production are not fulfilled

- a. IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable, (s) sustainable, (ns) not sustainable
- b. Taking into consideration also the CH4 and the N2O emissions from combustion in stationary sources
- c. If choosing to report in CO2eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- d. Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO2-eq/MWh, in the case of conversion of forest land in the tropics.
- e. Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO2-eq/MWh, in the case of conversion of forest land in the tropics.
- f. Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO2-eq/MWh, in the case of conversion of forest land in the tropics.
- g. The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- h. Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
STEP 6 - Monitoring and evaluating INDICATORS	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
	Implementation framework set, with clear milestones		500 chars left
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		
	Coordinated action between mitigation and adaptation set		500 chars left
	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		500 chars left

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Terrades

Strategy

1) Long-term vision (e.g. 2050 and beyond)

1000 chars left

2) Target(s) and commitment(s)

Mitigation					
CO ₂ / GHG target	Unit	Target Year	Base Year	Reduction Type	Population estimates in target year
20%	%	2020	2005	absolute	
55%	%	2030	2005	absolute	
		2050	[drop -down]	[drop -down]	

ⓘ Only if your local authority has set up a 2020 objective.

ⓘ Only if your local authority has set up a 2030 objective.

ⓘ Add as many rows as necessary.

Adaptation				
Goal	Unit (% or other)	Target year	Base Year	Progress towards target
		[drop -down]	[drop -down]	
		[drop -down]	[drop -down]	

ⓘ Only if your local authority is committed to adaptation. // Add as many rows as necessary.

3) Administrative structure

Type of administrative structure
<input type="checkbox"/> Mono-sectoral - (one officer of) one sectoral department assigned within the municipal administration
<input type="checkbox"/> Multi-sectoral - several departments assigned within the municipal administration
<input type="checkbox"/> Multi-level - several departments assigned at different level(s) of governance (e.g. provincial/regional)

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

4) Staff capacity allocated

Type	Plan preparation			Plan implementation		
	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)	Mitigation	Adaptation	(Estimated) full-time equivalent job(s)
Local authority	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other level(s) of governance (e.g. Covenant coordinator or supporter)	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
External consultant	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Total			0			0

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

1000 chars left

5) Stakeholder engagement

Type of stakeholders	Stakeholders engaged	Engagement level	Engagement method(s)	Engagement purpose
Local authority's staff	<input type="checkbox"/>	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
External stakeholders at local level	<input type="checkbox"/> Academia ; Business & private sector ; trade-union ; citizens ; NGO & civil society ; Education sector ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation
Stakeholders at other levels of governance	<input type="checkbox"/> National government and/or agency(ies) ; Sub-national governments(s) and/or agencies ; Other (specify)	[drop-down]	Survey ; Workshop ; Focus group ; Citizen jury ; Other (specify)	Information ; Consultation ; Advice ; Co-production ; Co-decision ; Implementation

ⓘ Select x for the ones that are applicable.

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

6) Budget

Overall budget foreseen for plan implementation			Budget spent so far		
Total (€)	Mitigation (%)	Adaptation (%)	Total (€)	Mitigation (%)	Adaptation (%)

Budget period

From:	2012
To:	2030

ⓘ % to be reported only for signatories also committed to adaptation

ⓘ depending on signatories' selected time horizon (2020/2020)

Financing sources	Share (in % of overall budget)
Local Authority's own resources	<input type="checkbox"/>
External sources	
> Public	<input type="checkbox"/>
> Private	<input type="checkbox"/>
Not allocated to any sources	

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

700 chars left

7) Monitoring process

1000 chars left

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	40,23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,23
Municipal buildings, equipment/facilities	7,116	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	7,116
Public lighting	33,114	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	33,114
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	355,19	0	0	26,08	49,49	0	0	0	0	0	0	0	0	0	0	0	0	430,76
Institutional buildings	355,19	0	0	26,08	49,49	0	0	0	0	0	0	0	0	0	0	0	0	430,76
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	340,75	0	0	67,34	231,54	0	0	0	0	0	0	0	0	0	0	0	0	639,63
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	736,17	0	0	93,42	281,03	0	0	0	0	0	0	0	0	0	0	0	0	1110,62
TRANSPORT																		
Municipal fleet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	3052,87	498,79	0	0	0	0	0	0	0	0	0	0	3551,66
Road	NE	NE	NE	NE	NE	3052,87	498,79	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3551,66
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	3052,87	498,79	0	0	0	0	0	0	0	0	0	0	3551,66
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	736,17	0	0	93,42	281,03	3052,87	498,79	0	0	0	0	0	0	0	0	0	0	4662,28

Covenant Key Sector

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	0	0,000	0
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	0	0	0

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	190,32	0
Solid waste disposal	190,32	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

500 chars left

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓛ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓛ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓛ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	High	High	Increase	Increase	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓛ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Moderate	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Low	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	Moderate	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Moderate	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Low	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Low	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

Ⓛ Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
Ⓛ Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	Ⓛ Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	<u>Buildings</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Transport</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Energy</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Water</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Waste</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Land use planning</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Agriculture & forestry</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Environment & biodiversity</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Health</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Civil protection & emergency</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Tourism</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>Education</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	<u>ICT (Information & communication technologies)</u>	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Ⓛ Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
Ⓛ Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📄 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 129,31 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 62,2 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: council will create a local community of renewable energy that will start in municipal facilities with the aim of connecting the whole mu
844 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Ongoing

8) Stakeholders involved: Citizens

📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 150.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	ants and subsic	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	167,34	MWh/a
Renewable energy production:	0	MWh/a
CO ₂ reduction:	80,49	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Encourage the installation of photovoltaic solar energy in the residential and service sectors

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Encourage the installation of photovoltaic solar energy in the residential sector and the services sector reporting on subsidies
872 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens
📘 insert additional rows as needed

Additional comments

9) Total implementation costs: 432.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	ants and subsic	[drop-down]	Other

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	0	MWh/a
Renewable energy production:	289,57	MWh/a
CO ₂ reduction:	139,28	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] to collect and reuse rainwater in public facilities 948 characters left

Related indicator: [] m3 rainwater collected and reused [numerical value] [Unit] m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	📌 To be filled in only for the concerned sector
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe: Start: 2022, End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 25.704 €

Source of funding: [Drop-down] €

Investment costs: €

Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a

Renewable energy production: [] MWh/a

CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €

14) Life expectancy of the action: [] years

15) Return on Investment: [] %

16) Jobs created: [] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €

23) Life expectancy of the action: [] years

24) Return on Investment: [] %

25) Jobs created: [] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www. []

31) Video link: www. []

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

① For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
Adaptation
Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description

1000 characters left

6) Implementation timeframe

Start:

End:

7) Implementation status

8) Stakeholders involved

① For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

€

Source of funding:

Investment costs: €

Non-investment costs: €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>
Policy instrument:	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>	<input type="text" value="[drop-down]"/>

① To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted

① For multiple choice, insert additional rows as needed

13) Financial savings

 €

14) Life expectancy of the action

 years

15) Return on Investment

 %

16) Jobs created

 full-time equivalent

17) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

① 1 or multiple choice, insert additional rows as needed

19) Sector(s)

① 1 or multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

21) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

22) Avoided cost

 €

23) Life expectancy of the action

 years

24) Return on Investment

 %

25) Jobs created

 full-time equivalent

26) Other figures

<input type="text" value="[Please specify]"/>	<input type="text" value="[numerical value]"/>	<input type="text" value="[Unit]"/>
---	--	-------------------------------------

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

① 1 or multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

Related indicator: [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

CoM Template Energy carriers	Fossil fuels													Renewable energies													
	Natural gas	Liquid gas		Heating Oil	Diesel	Gasoline	Lignite	Coal			Other fossil fuels		Plant oil	Biofuel (1)	Biofuel (2)		Other biomass (1)	Other biomass (2)	Other biomass (3)		Other biomass (4)	Other biomass (5)	Solar thermal	Geothermal			
IPCC Energy carriers	Natural gas	Liquified Petroleum Gases	Natural Gas Liquids	Gas/Diesel oil	Gas/Diesel oil	Motor gasoline	Lignite	Anthracite	Other Bituminous Coal	Sub-Bituminous Coal	Municipal Wastes (non-biomass fraction)	Peat	Other Liquid Biofuels		Biogasoline		Biodiesels		Biogas	Municipal Wastes (biomass fraction)	Wood		Wood Waste	Other Primary solid biomass	-	-	
Sustainability criteria ^(a)													(c)	(ns)	(c)	(ns)	(b)	(ns)			(c)	(ns)					
IPCC	t CO ₂ /MWh	0,202	0,227	0,231	0,267	0,267	0,249	0,364	0,354	0,341	0,346	0,330	0,382	0,000	0,287	0,000	0,255	0,000	0,255	0,197	0,000	0,000	0,403	0,403	0,360	-	-
	t CO ₂ eq./MWh ^(b)	0,202	0,227	0,232	0,268	0,268 ^(d)	0,250 ^(d)	0,365	0,356	0,342	0,348	0,337	0,383	0,001	0,302	0,001	0,256	0,001	0,256	0,197	0,007	0,007	0,410	0,410	0,367	-	-
LCA	t CO ₂ /MWh	0,221	n.a.	n.a.	0,292	0,292	0,299	0,368	0,379	0,366	0,371	0,181	0,386		0,171		0,194		0,147	n.a.	0,107	0,006	0,409	0,193	n.a.	n.a.	n.a. ^(e)
	t CO ₂ eq./MWh	0,237	n.a.	n.a.	0,305	0,305	0,307	0,375	0,393	0,380	0,385	0,174	0,392		0,182 ^(d)		0,206 ^(d)		0,156 ^(d)	n.a.	0,106	0,013	0,416 ^(d)	0,184	n.a.	n.a.	n.a. ^(d)

^(b) if sustainability criteria during production are fulfilled

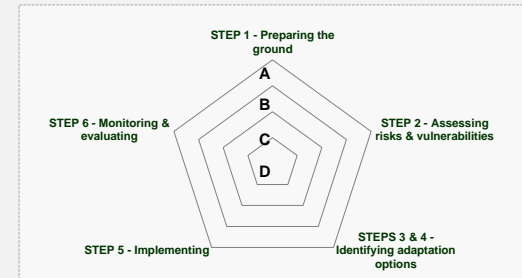
^(ns) if sustainability criteria during production are not fulfilled

- IPCC emission factor should be reported zero if the biofuels/biomass meet sustainability criteria; fossil fuel emission factors to be used if biofuels are unsustainable (s) sustainable, (ns) not sustainable
- Taking into consideration also the CH₄ and the N₂O emissions from combustion in stationary sources
- If choosing to report in CO₂eq, please consider that the emission factors for the transport sector are with up to 3% higher than the values provided here, which are characteristic for stationary sources
- Conservative figure regarding pure plant oil from palm oil. Note that this figure represents the worst ethanol plant oil pathway, and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding ethanol from wheat. Note that this figure represents the worst ethanol pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- Conservative figure regarding biodiesel from palm oil. Note that this figure represents the worst biodiesel pathway and does not necessarily represent a typical pathway. This figure does not include the impacts of direct and indirect land use change. Had these been considered, the default value could be as high as 9 t CO₂-eq/MWh, in the case of conversion of forest land in the tropics.
- The figure reflects the production and local/regional transport of wood, representative for Germany, assuming: spruce log with bark; reforested managed forest; production mix entry to saw mill, at plant, and 44% water content. Carbon dioxide incorporation is considered. The local authority using this emission factor is recommended to check that it is representative for the local circumstances and to develop an own emission factor if the circumstances are different. These are only one set of reference values and another LCA case study could be performed to define a fork spanning the range of variation. This will be done for the next update of this guidebook.
- Data not available, but emissions are assumed to be low (however the emissions from electricity consumption of heat pumps is to be estimated using the emission factors for electricity). Local authorities using these technologies are encouraged to try to obtain such data.

ANNEX 2 - Adaptation Scoreboard

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Forging ahead	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation STRATEGY	Adaptation commitments defined/integrated into the local climate policy		
	Human, technical and financial resources identified		
	Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned		
	Horizontal (i.e. across sectoral departments) coordination mechanisms in place		
	Vertical (i.e. across governance levels) coordination mechanisms in place		
STEP 2 - Assessing risks & vulnerabilities to climate change RISKS & VULNERABILITIES	Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process		
	Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
	Mapping of the possible methods & data sources for carrying out a Risk & Vulnerability Assessment conducted		
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options ACTIONS	Assessment(s) of climate risks & vulnerabilities undertaken		
	Possible sectors of action identified and prioritised		500 chars left
	Available knowledge periodically reviewed and new findings integrated		
STEP 5 - Implementing ACTIONS	Full portfolio of adaptation options compiled, documented and assessed		
	Possibilities of mainstreaming adaptation in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified		500 chars left
STEP 6 - Monitoring and evaluating INDICATORS	Adaptation Actions developed and adopted (as part of the SECAP and/or other planning documents)		
	Implementation framework set, with clear milestones		500 chars left
	Adaptation actions implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents		
	Coordinated action between mitigation and adaptation set		500 chars left
	Monitoring framework in place for adaptation actions		
	Appropriate M&E indicators identified		
	Progress regularly monitored and reported to the relevant decision-makers		
	Adaptation strategy and/or Action Plan updated, revised and readjusted according to the findings of the M&E procedure		500 chars left

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table > A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	0
STEP 2 - Assessing risks & vulnerabilities	0
STEPS 3 & 4 - Identifying adaptation options	0
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

ANNEX 3 - Indicators for Adaptation

ⓘ Below is a non-exhaustive list of indicators which may be used to complement the risks and vulnerability assessment. This is optional; the indicators below are illustrative examples and serve as a source of inspiration only.
 ⓘ Please select any indicators that your local authority is using to measure progress and complete the list with your own indicators - simply add/hide the rows according to your needs.

ID#	Sector	Indicator	Measurement unit	Numerical value
1,1	Buildings	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events	(per year / over a certain period)	
1,2	Transport, Energy, Water, Waste, ICT	Number or % of transport/energy/water/waste/ICT infrastructure damaged by extreme weather conditions/events	(per year / over a certain period)	
1,3	Land Use Planning	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls and/or Landslides, Forest/Land Fire)	%	
1,4	Transport, Energy, Water, Waste, Civil Protection & Emergency	Number of days with public service interruptions (e.g. energy/water supply, health/civil protection/emergency services, waste)	No.	
1,5	Transport, Energy, Water, Waste, Civil Protection & Emergency	Average length (in hours) of the public service interruptions (e.g. energy/water supply, public transport traffic, health/civil protection/emergency services)	hours	
1,6	Health	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,7	Health	Number of deaths related to extreme weather event(s) (e.g. heat or cold waves)	(per year / over a certain period)	
1,8	Civil Protection & Emergency	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather events	min.	
1,9	Health	Number of water quality warnings issued	%	
1,10	Health	Number of air quality warnings issued	No.	
1,11	Environment & Biodiversity	% of areas affected by soil erosion / soil quality degradation	%	
1,12	Environment & Biodiversity	% of habitat losses from extreme weather event(s)	%	
1,13	Environment & Biodiversity	% change in number of native species	%	
1,14	Environment & Biodiversity	% of native (animal/plant) species affected by diseases related to extreme weather conditions/events	%	
1,15	Agriculture & Forestry	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)	%	
1,16	Agriculture & Forestry	% of livestock losses from extreme weather conditions	%	
1,17	Agriculture & Forestry	% change in crop yield / evolution of the annual grassland productivity	%	
1,18	Agriculture & Forestry	% of livestock losses from pests/pathogens	%	
1,19	Agriculture & Forestry	% of timber losses from pests/pathogens	%	
1,20	Agriculture & Forestry	% change in Forest composition	%	
1,21	Agriculture & Forestry	% change in water abstraction	%	
1,22	Tourism	% change in tourist flows / tourism activities	%	
1,23	Other	€ annual direct economic losses (e.g. in commercial/agricultural/industrial/touristic sectors) due to extreme weather event(s)	€/year	
1,24	Other	€ annual amount of compensation received (e.g. insurance)	€/year	

ⓘ Add as many rows as necessary.

ID#	Adaptive capacity factor	Indicator	Measurement unit	Numerical value
2.1	Socio-economic	% of public funds available to address a climate hazard and its impacts (e.g. fire, flood, heatwave, etc)	%	
2.2	Socio-economic	% share of vulnerable population groups (e.g. elderly (65+)/young (25-) people, lonely pensioner households, low-income/unemployed households, migrants and displaced people) - compared to national average in year X in country X	%	
2.3	Socio-economic	Number of households educated in house energy/water/waste management	No.	
2.4	Socio-economic	Population density (compared to national/regional average in year X in country/region X)	People per km ²	
2.5	Socio-economic	% of population living in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.6	Governmental & institutional	% change in green & blue infrastructure/areas (e.g. through new urban planning regulation/policy)	%	
2.7	Physical & environmental	Length of transport network (e.g. road/rail) located in areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	Km	
2.8	Physical & environmental	Average time needed to reach a health facility	Hours	
2.9	Physical & environmental	% of areas non-accessible for emergency responses (e.g. firefighting services)	%	
2.10	Physical & environmental	% of (e.g. residential/commercial/agricultural/industrial/touristic) areas at risk (e.g. flood/drought/heat wave/ forest or land fire)	%	
2.11	Knowledge & technology	Hours needed to inform population of a risk via an early warning system	hours	

ⓘ Add as many rows as necessary.

→ Relevant resources

[EUROSTAT Urban Audit – Database](#)

[EEA's Urban Adaptation Map Viewer – Tool](#)

[EEA's Map book urban vulnerability to climate change – Factsheets \(July 2016\)](#)

[Urban Vulnerability Indicators – Technical Report \(ETC-CCA & ETC-SIA, 2012\)](#)

["World Council on City Data" – Open Data Portal](#)

[ISO 37120 Sustainable Development of Communities: Indicators for City Services and Quality of Life \(ISO May 2014\)](#) - Note: only informative sessions of standards are publicly available.

[Planning for Adaptation to Climate Change – Guidance Document \(ACT Life project, 2013\)](#)

The present template is a working document only. The official reporting to the Covenant of Mayors initiative shall be done using the online platform "*MyCovenant*".



Do not use this file for official submission

SECAP template de Vilanant

Emission Inventory

To be filled in only if your local authority is committed to mitigation.
 Copy as many "emission inventory" tabs as necessary. Minimum 1 "baseline emission inventory" (BE) at the 1st reporting stage, minimum 1 "monitoring emission inventory" (ME) every 4 years.

1) **Inventory year**

2) **Population in the inventory year**

3) **Emission factors**
 IPCC (Intergovernmental Panel on Climate Change)
 LCA (Life Cycle Assessment)
 National/sub-national Specify Source

4) **Emission reporting unit**
 tonnes CO₂
 tonnes CO₂ equivalent

5) **Methodological note**

A. Final energy consumption

Please note that for separating decimals dot (.) is used. No thousand separators are allowed.
 Please note that the following notation keys can be used in the table below: "NO" (not occurring), "IE" (included elsewhere), "NE" (not estimated) and "C" (confidential). More information in the Reporting Guidelines.
 Click on the [+/-] buttons on the left to expand or collapse. Hide rows as appropriate to your emission inventory.

Sector	FINAL ENERGY CONSUMPTION [MWh]																Total	
	Electricity	District heating and cooling	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biogas	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES																		
Municipal buildings, equipment/facilities	113,997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113,997
Municipal buildings, equipment/facilities	73,326	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	73,326
Public lighting	40,671	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	40,671
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Tertiary (non-municipal) buildings, equipment/facilities	254,146	0	0	41,6238097	60,51514925	0	0	0	0	0	0	0	0	0	0	0	0	356,284959
Institutional buildings	254,146	0	0	41,6238097	60,51514925	0	0	0	0	0	0	0	0	0	0	0	0	356,284959
Other	NE	0	0	NE	NE	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential buildings	801,237	0	0	53,7199804	186,9048544	0	0	0	0	0	0	0	0	0	0	0	0	1041,86183
Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-ETS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETS (non-ferrous)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings, equipment/facilities and industries not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1169,38	0	0	95,3437901	247,4200036	0	0	0	0	0	0	0	0	0	0	0	0	1512,14379
TRANSPORT																		
Municipal fleet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Public transport	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Road	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Private and commercial transport	0	0	0	0	0	4890,74947	429,271713	0	0	0	0	0	0	0	0	0	0	5320,02118
Road	NE	NE	NE	NE	NE	4890,74947	429,271713	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	5320,02118
Rail	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local and domestic waterways	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Local aviation	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
Transport not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	4890,74947	429,271713	0	0	0	0	0	0	0	0	0	0	5320,02118
OTHER																		
Agriculture, Forestry, Fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other not allocated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1169,38	0	0	95,3437901	247,4200036	4890,74947	429,271713	0	0	0	0	0	0	0	0	0	0	6832,16498

Covenant Key Sectors

B. Energy supply

Hide sections or rows as appropriate to your emission inventory.

B1. Certified green electricity

Certified green electricity	Renewable electricity [MWh]	CO ₂ / CO ₂ eq. Emission factor [t/MWh]
Purchases Guarantees of Origins (within the municipality boundaries)	NE	
Sales Guarantees of Origins (within the municipality boundaries)	NE	

B2. Local/distributed electricity production (Renewable energy only)

Local renewable electricity plants	Renewable electricity produced [MWh]	Emission factor [t/MWh produced]	CO ₂ / CO ₂ eq. emissions [t]
Wind	0	0,000	0
Hydroelectric	0	0,000	0
Photovoltaics	45,263	0,460	20,83989441
Geothermal	0	0,000	0
Other	0	0,000	0
TOTAL	45,263		20,83989441

B3. Local/distributed electricity production

Local electricity production plants	Electricity produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (ETS and large-scale plants > 20 MW not recommended)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

B4. Local heat/cold production

Local heat/cold production plants	Heat/cold produced [MWh]		Energy carrier input [MWh]											CO ₂ / CO ₂ eq. emissions [t]			
	from renewable sources	from non-renewable sources	Fossil fuels							Waste	Plant oil	Other biomass	Biogas	Other renewable	Other	Fossil sources	Renewable sources
			Natural gas	Liquid gas	Heating oil	Lignite	Coal										
Combined Heat and Power	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District heating (heat-only)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C. CO₂ emissions

C1. Please insert the CO₂ emission factors adopted [t/MWh]:

Click here to visualise fuel emission factors

Electricity		Heat/cold	Fossil fuels							Renewable energies						
National	Local		Natural gas	Liquid gas	Heating oil	Diesel	Gasoline	Lignite	Coal	Other fossil	Biogas	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal
0,481	0,481		0,202	0,227	0,267	0,267	0,249									

C2. Please complete in case non-energy related sectors are included:

Click on the [+/-] buttons on the left to expand or collapse.

Non-energy related sectors	CO ₂ eq. emissions [t]	Activity data (tons)
Waste management	131,322746	0
Solid waste disposal	131,322746	
Biological Treatment of Solid Waste	NE	
Incineration and Open Burning of Waste	NE	
Other	NE	
Wastewater treatment and discharge	NE	Activity data (m³)
Other non-energy related such as fugitive emissions	NE	

Emission Inventory Summary

The emission inventory summary table is automatically generated in the online platform (MyCovenant).

Additional comments

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyCovenant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyCovenant* is the same, the method of completion of the RVA will slightly differ.

- Ⓛ Underlined words are defined; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓛ To choose option(s) from a predefined list, copy and paste the relevant option(s). 'Single choice' indicates only one option is possible; 'multiple choice' indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	<< Current risk of hazard occurring >>		<< Future hazards >>		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Timeframe(s)
Ⓛ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row# 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).					
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Mid-term Long-term Not known
<input checked="" type="checkbox"/> Extreme heat	High	High	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Extreme cold	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Heavy precipitation	Moderate	Moderate	Increase	Increase	Long-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Floods & sea level rise	Moderate	Moderate	Increase	Increase	Long-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Droughts & water scarcity	Moderate	Moderate	Increase	Increase	Long-term
<input checked="" type="checkbox"/> Storms	High	High	Increase	Increase	Long-term
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Mass movement	Low	Low	No change	No change	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input checked="" type="checkbox"/> Wild fires	High	High	Increase	Increase	Long-term
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Chemical change	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Saltwater intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentrations	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
<input type="checkbox"/> Other	[please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
Ⓛ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.			
	Multiple choice: Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Civil protection & emergency Tourism Education ICT (Information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Moderate	Number or % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/> Extreme heat	Health	Low	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/> Extreme heat	Energy	High	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/> Extreme heat	Transport	Moderate	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Extreme heat	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input checked="" type="checkbox"/> Extreme heat	Tourism	Low	% change in tourist flows / tourism activities

<input checked="" type="checkbox"/>	Extreme cold	Buildings	Moderate	Number of % of (public/residential/tertiary) buildings damaged by extreme weather conditions/events
<input checked="" type="checkbox"/>	Extreme cold	Health	Low	Number of people injured/evacuated/relocated due to extreme weather event(s) (e.g. heat or cold waves)
<input checked="" type="checkbox"/>	Heavy precipitation	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Heavy precipitation	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Heavy precipitation	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Floods & sea level rise	Land use planning	Moderate	% of grey/blue/green areas affected by extreme weather conditions/events (e.g. Heat Island Effect, Flood, Rockfalls)
<input checked="" type="checkbox"/>	Floods & sea level rise	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input checked="" type="checkbox"/>	Floods & sea level rise	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Water	Low	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Droughts & water scarcity	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Droughts & water scarcity	Tourism	Low	% change in tourist flows / tourism activities
<input checked="" type="checkbox"/>	Droughts & water scarcity	Environment & biodiversity	Low	% of areas affected by soil erosion / soil quality degradation
<input type="checkbox"/>	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Mass movement	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Wild fires	Agriculture & forestry	Moderate	% of agriculture losses from extreme weather conditions/events (e.g. drought/water scarcity, soil erosion)
<input checked="" type="checkbox"/>	Wild fires	Civil protection & emergency	Moderate	Average response time (in min.) for police/fire-fighters/emergency services in case of extreme weather
<input type="checkbox"/>	Other	[please specify]	[Choose from the list above]	[Please choose]

Ⓛ Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
Ⓛ Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2; there is no need to fill in this information below). >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	Ⓛ Column not to be filled in	Multiple choice: Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Buildings	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Tourism	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Ⓛ Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)	
Ⓛ Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards. >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice: Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input type="checkbox"/>	Extreme heat	[Choose from the list above]
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input type="checkbox"/>	Heavy precipitation	[Choose from the list above]
<input type="checkbox"/>	Floods & sea level rise	[Choose from the list above]
<input type="checkbox"/>	Droughts & water scarcity	[Choose from the list above]
<input type="checkbox"/>	Storms	[Choose from the list above]
<input type="checkbox"/>	Mass movement	[Choose from the list above]
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	[please specify]

Additional comments

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promoting sustainable mobility in urban commuting

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: and raise awareness by reducing the avoidable traffic of motor vehicles through the interior of the municipality and at the same time ma
691 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 700.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Transport

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	shift to walking & c	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 147,91 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 70,91 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Promote shared self-consumption and local renewable energy communities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: m of the action is to make all the citizens from the municipality aware of the shared options for self-consumption and the advantages 853 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 5.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Local Electricity Production

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Photovoltaics	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings:	0	MWh/a
Renewable energy production:	0	MWh/a
CO ₂ reduction:	10,42	t CO ₂ /a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: 10 years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📘 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📘 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Implement the door-to-door collection system

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: The door-to-door collection system is proposed to improve recycling rates and reduce associated emissions. 894 characters left

6) Implementation timeframe

Start: 2022
End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📄 insert additional rows as needed

Additional comments

9) Total implementation costs: 39.794 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📘 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: Waste

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	aste & wastewater management
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	Other

📘 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: 211,36 MWh/a
Renewable energy production: 0 MWh/a
CO₂ reduction: 101,66 t CO₂/a

12) Vulnerable population group(s) targeted: All

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📘 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📘 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Collect and reuse rainwater. Deposits in public facilities

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: Installation of water tanks on roofs, gardens, basements or other municipal spaces to collect water and reuse it in the facilities, for irrigation. 803 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 148.700 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Droughts and water scarcity

19) Sector(s): Water

20) Outcome(s) reached

Description: [] to collect and reuse rainwater in public facilities 948 characters left

Related indicator: [] m3 rainwater collected and reused [] m3

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 772.000 €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Optimize, review and improve alert and communication systems with the population

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: ing and improving existing systems for alerting the public in the event of a risk or emergency, in order to implement self-protection mea
781 characters left

6) Implementation timeframe

Start:	2022
End:	2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

1761	€
Source of funding:	[Drop-down]
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: €

14) Life expectancy of the action: years

15) Return on Investment: %

16) Jobs created: full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Civil protection & emergency

20) Outcome(s) reached

Description: to create alert and communication systems with the population
939 characters left

Related indicator: Number of warning and communication systems with the popul

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 2.500.000 €

23) Life expectancy of the action: years

24) Return on Investment: %

25) Jobs created: full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: www.

31) Video link: www.

32) Picture: [upload]

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Training plan aimed at elected officials and municipal workers. Creation of the "Municipal Commission for Adaptation to Climate Change"

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: proposed to carry out training and awareness plan for elected officials and the creation of a "Municipal Commission for adaptation ar" 613 characters left

6) Implementation timeframe

Start:	2022	
End:	2030	

7) Implementation status: Not started

8) Stakeholders involved: Sub-national governments(s) and/or agency(ies) 📌 insert additional rows as needed

Additional comments

9) Total implementation costs

25.704	€
Source of funding: [Drop-down]	
Investment costs:	€
Non-investment costs:	€

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other	
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	<small>📌 To be filled in only for the concerned sector</small>
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	

11) Estimated impacts

Energy savings:		MWh/a
Renewable energy production:		MWh/a
CO ₂ reduction:		t CO ₂ /a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €

14) Life expectancy of the action: [] years

15) Return on Investment: [] %

16) Jobs created: [] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Other

19) Sector(s): Education

20) Outcome(s) reached

Description: offer training to all municipal workers 961 characters left

Related indicator: number of municipal workers who have received the training

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 1.500.000 €

23) Life expectancy of the action: [] years

24) Return on Investment: [] %

25) Jobs created: [] full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink:

31) Video link:

32) Picture:

Key actions

📌 Copy as many "Key action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📌 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: Create an itinerant energy advice point

3) Origin of the action: Local authority

4) Responsible body: Mayor

5) Short description: / advice point that will provide information on energy and water at home, aimed at all citizens. The fact that the service is aimed at all citizens
620 characters left

6) Implementation timeframe

Start: 2022
End: 2030

7) Implementation status: Not started

8) Stakeholders involved: Citizens 📌 insert additional rows as needed

Additional comments

9) Total implementation costs: 60.000 €

Source of funding: [Drop-down] €
Investment costs: €
Non-investment costs: €

A. Mitigation

📌 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: [Drop-down]

	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Tool / Area of intervention:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

📌 To be filled in only for the concerned sector

11) Estimated impacts

Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂/a

12) Vulnerable population group(s) targeted: [Drop-down]

13) Financial savings: [] €
14) Life expectancy of the action: [] years
15) Return on Investment: [] %
16) Jobs created: [] full-time equivalent
17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

📌 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: [Drop-down]

19) Sector(s): [Drop-down]

20) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

21) Vulnerable population group(s) targeted: [Drop-down]

22) Avoided cost: [] €
23) Life expectancy of the action: [] years
24) Return on Investment: [] %
25) Jobs created: [] full-time equivalent
26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

📌 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: All

28) Outcome(s) reached

Description: [] 1000 characters left

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]