

# Sustainable Energy Action Plan (SEAP) template

This is a working version for Covenant signatories to help in data collection. However the on-line SEAP template available in the Signatories' Corner (password restricted area) at: <http://members.eumayors.eu/> is the only **REQUIRED** template that all the signatories have to fill in at the same time when submitting the SEAP in their own (national) language.

## OVERALL STRATEGY

- 1) Overall CO2 emission reduction target   20,35% (%) by 2020



Please tick the corresponding box:

Absolute reduction  
Per capita reduction

- 2) Long-term vision of your local authority (please include priority areas of action, main trends and challenges)

Photovoltaic systems in city council buildings, street lighting and traffic lights efficiency, energy efficiency plans for the city council buildings, urban mobility, awareness campaigns for the citizens, ...

- 3) Organisational and financial aspects

Coordination and organisational structures created/assigned	Environmental department from the council
Staff capacity allocated	Preparation: 0,6 Implementation: 0,5
Involvement of stakeholders and citizens	Internal: Meetings with the city council politicians and technicians // External: Surveys to citizens and presentations Preparation: Meetings and presentations Implementation: Presentations, campains and monitoring plan
Overall estimated budget	3.480.210 €
Foreseen financing sources for the investments within your action plan	Canet de Mar Council budget, european funds, diferent catalan and spanish funds
Planned measures for monitoring and follow up	Implementation report every second year, indicators developed by Xarxa de ciutats i pobles cap a la sostenibilitat

Go to the [second part of the SEAP template](#) -> dedicated to your Baseline Emission Inventory!

DISCLAIMER: The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Communities. The European Commission is not responsible for any use that may be made of the information contained therein.

More information: [www.eumayors.eu](http://www.eumayors.eu).

# Sustainable Energy Action Plan (SEAP) template

## BASELINE EMISSION INVENTORY

### 1) Inventory year

For Covenant signatories who calculate their CO2 emissions per capita, please precise here the number of inhabitants during the inventory year:



### 2) Emission factors

Please tick the corresponding box:

- Standard emission factors in line with the IPCC principles  
 LCA (Life Cycle Assessment) factors

Emission reporting unit

Please tick the corresponding box:

- CO2 emissions  
 CO2 equivalent emissions

### 3) Key results of the Baseline Emission Inventory

Green cells are compulsory fields

Grey fields are non editable

#### A. Final energy consumption

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Category	FINAL ENERGY CONSUMPTION [MWh]															Total	
	Electricity	Heat/cold	Fossil fuels							Renewable energies							
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal		
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																	
Municipal buildings, equipment/facilities	594,3		173,0			156,2									23,06		946,5
Tertiary (non municipal) buildings, equipment/facilities	5.080,0			741,4		1.239,5											7.060,9
Residential buildings	22.352,1		17.274,6	2.385,40		1.922,0											43.934,1
Municipal public lighting	1.589,2																1.589,2
Industries (excluding industries involved in the EU Emission trading scheme - ETS)																	
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>29.615,6</b>	<b>0,0</b>	<b>17.447,6</b>	<b>3.126,8</b>	<b>0,0</b>	<b>3.317,7</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>23,1</b>	<b>0,0</b>	<b>53.530,8</b>
<b>TRANSPORT:</b>																	
Municipal fleet						1.397,2											1.397,2
Public transport						30,9											30,9
Private and commercial transport				23,70		67.999,7											68.023,4
<b>Subtotal transport</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>23,7</b>	<b>0,0</b>	<b>69.427,7</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>69.451,4</b>
<b>Total</b>	<b>29.615,6</b>	<b>0,0</b>	<b>17.447,6</b>	<b>3.150,5</b>	<b>0,0</b>	<b>72.745,5</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>23,1</b>	<b>0,0</b>	<b>122.982,2</b>

Municipal purchases of certified green electricity (if any) [MWh]:	-
CO2 emission factor for certified green electricity purchases (for LCA approach):	-

## B. CO2 or CO2 equivalent emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Category	CO2 emissions [t]/ CO2 equivalent emissions [t]															Total	
	Electricity	Heat/cold	Fossil fuels								Renewable energies						
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal		
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																	
Municipal buildings, equipment/facilities	285,9		35,1			41,4								5,2			367,6
Tertiary (non municipal) buildings, equipment/facilities	2.443,5			181,5		328,5											2.953,5
Residential buildings	10.751,4		3.503,1	564,9		507,1											15.326,5
Municipal public lighting	764,4																764,4
Industries (excluding industries involved in the EU Emission trading scheme - ETS)																	0,0
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>14.245,2</b>	<b>0,0</b>	<b>3.538,2</b>	<b>746,4</b>	<b>0,0</b>	<b>876,9</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,2</b>	<b>0,0</b>	<b>0,0</b>	<b>19.412,0</b>
<b>TRANSPORT:</b>																	
Municipal fleet						374,6											374,6
Public transport						8,2											8,2
Private and commercial transport				5,6		18.048,7											18.054,3
<b>Subtotal transport</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,6</b>	<b>0,0</b>	<b>18.431,5</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>18.437,1</b>
<b>OTHER:</b>																	
Waste management																	7.143,2
Waste water management																	2.644,0
<i>Please specify here your other emissions</i>																	
<b>Total</b>	<b>14.245,2</b>	<b>0,0</b>	<b>3.538,2</b>	<b>752,0</b>	<b>0,0</b>	<b>19.308,4</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,2</b>	<b>0,0</b>	<b>0,0</b>	<b>47.636,3</b>

<b>Corresponding CO2-emission factors in [t/MWh]</b>	0,481		0,203	0,237		0,264											
--	-------	--	-------	-------	--	-------	--	--	--	--	--	--	--	--	--	--	--

CO2 emission factor for electricity not produced locally [t/MWh]	0,481
--	-------

## C. Local electricity production and corresponding CO2 emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Locally generated electricity (excluding ETS plants , and all plants/units > 20 MW)	Locally generated electricity [MWh]	Energy carrier input [MWh]										CO2 / CO2-eq emissions [t]	Corresponding CO2-emission factors for electricity production in [t/MWh]					
		Fossil fuels					Steam	Waste	Plant oil	Other biomass	Other renewable			other				
		Natural gas	Liquid gas	Heating oil	Lignite	Coal												
Wind power																		
Hydroelectric power																	0,00	
Photovoltaic																	0,00	
Combined Heat and Power																		
Other <i>Please specify: Incinerator</i>	1.444,30																694,71	0,481
<b>Total</b>	<b>1.444,30</b>																<b>694,71</b>	

**D. Local heat/cold production (district heating/cooling, CHPs...) and corresponding CO2 emissions**

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Locally generated heat/cold	Locally generated heat/cold [MWh]	Energy carrier input [MWh]										CO2 / CO2-eq emissions [t]	Corresponding CO2-emission factors for heat/cold production in [t/MWh]
		Fossil fuels					Waste	Plant oil	Other biomass	Other renewable	other		
		Natural gas	Liquid gas	Heating oil	Lignite	Coal							
Combined Heat and Power													
District Heating plant(s)													
Other <i>Please specify: _____</i>													
<b>Total</b>	<b>0</b>											<b>0</b>	

4) **Other CO2 emission inventories**

If other inventory(ies) have been carried out, please click [here ->](#)

Otherwise go to the [last part of the SEAP template ->](#) dedicated to your Sustainable Energy Action Plan

*DISCLAIMER: The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Communities. The European Commission is not responsible for any use that may be made of the information contained therein.*

More information: [www.eumayors.eu](http://www.eumayors.eu).

## EMISSION INVENTORY (2)

### 1) Inventory year

For Covenant signatories who calculate their CO2 emissions per capita, please precise here the number of inhabitants during the inventory year:



### 2) Emission factors

Please tick the corresponding box:

- Standard emission factors in line with the IPCC principles  
 LCA (Life Cycle Assessment) factors

Emission reporting unit

Please tick the corresponding box:

- CO2 emissions  
 CO2 equivalent emissions

### 3) Key results of the Baseline Emission Inventory

Green cells are compulsory fields

Grey fields are non editable

#### A. Final energy consumption

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Category	FINAL ENERGY CONSUMPTION [MWh]															Total		
	Electricity	Heat/cold	Fossil fuels							Renewable energies								
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal			
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																		
Municipal buildings, equipment/facilities	852,5		205,0				91,5									23,1		1.172,0
Tertiary (non municipal) buildings, equipment/facilities	7.044,6			543,4			1.139,2											8.727,2
Residential buildings	23.188,6		26.618,6	1952,2			1.844,2											53.603,6
Municipal public lighting	1.768,6																	1.768,6
Industries (excluding industries involved in the EU Emission trading scheme - ETS)																		0,0
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>32.854,3</b>	<b>0,0</b>	<b>26.823,6</b>	<b>2.495,6</b>	<b>0,0</b>	<b>3.074,8</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>23,1</b>	<b>0,0</b>	<b>65.271,4</b>
<b>TRANSPORT:</b>																		
Municipal fleet							1.397,2											1.397,2
Public transport							30,9											30,9
Private and commercial transport				19,4			72.913,1											72.932,5
<b>Subtotal transport</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>19,4</b>	<b>0,0</b>	<b>74.341,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>74.360,5</b>
<b>Total</b>	<b>32.854,3</b>		<b>26.823,6</b>	<b>2.515,0</b>		<b>77.416</b>										<b>23,1</b>		<b>139.631,9</b>

Municipal purchases of certified green electricity (if any) [MWh]:	-
CO2 emission factor for certified green electricity purchases (for LCA approach):	-

## B. CO2 or CO2 equivalent emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Category	CO2 emissions [t]/ CO2 equivalent emissions [t]															Total	
	Electricity	Heat/cold	Fossil fuels								Renewable energies						
			Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal		
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																	
Municipal buildings, equipment/facilities	377,7		41,6			24,2								5,2			448,7
Tertiary (non municipal) buildings, equipment/facilities	3.139,7			135,6		301,2											3.576,5
Residential buildings	10.272,5		5.398,0	462,3		486,6											16.619,4
Municipal public lighting	764,4																764,4
Industries (excluding industries involved in the EU Emission trading scheme - ETS)																	
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>14.554,3</b>	<b>0,0</b>	<b>5.439,6</b>	<b>597,9</b>	<b>0,0</b>	<b>811,9</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,2</b>	<b>0,0</b>	<b>0,0</b>	<b>21.409,0</b>
<b>TRANSPORT:</b>																	
Municipal fleet						374,6											374,6
Public transport						8,2											8,2
Private and commercial transport				4,6		19.394,7											19.399,3
<b>Subtotal transport</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>4,6</b>	<b>0,0</b>	<b>19.777,5</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>19.782,1</b>
<b>OTHER:</b>																	
Waste management																	6.257,6
Waste water management																	3.238,1
Please specify here your other emissions																	
<b>Total</b>	<b>14.554,3</b>	<b>0,0</b>	<b>5.439,6</b>	<b>597,9</b>	<b>0,0</b>	<b>811,9</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,2</b>	<b>0,0</b>	<b>0,0</b>	<b>50.686,8</b>

<b>Corresponding CO2-emission factors in [t/MWh]</b>	0,443		0,203	0,237		0,264											
--	-------	--	-------	-------	--	-------	--	--	--	--	--	--	--	--	--	--	--

CO2 emission factor for electricity not produced locally [t/MWh]	0,443
--	-------

## C. Local electricity production and corresponding CO2 emissions

Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

Locally generated electricity (excluding ETS plants , and all plants/units > 20 MW)	Locally generated electricity [MWh]	Energy carrier input [MWh]										CO2 / CO2-eq emissions [t]	Corresponding CO2-emission factors for electricity production in [t/MWh]		
		Fossil fuels					Steam	Waste	Plant oil	Other biomass	Other renewable			other	
		Natural gas	Liquid gas	Heating oil	Lignite	Coal									
Wind power														0	
Hydroelectric power														0	
Photovoltaic														0	
Combined Heat and Power														0	
Other Please specify: Incinerator	1.269,90													562,57	0,443
<b>Total</b>	<b>1.269,9</b>													<b>562,5657</b>	

**D. Local heat/cold production (district heating/cooling, CHPs...) and corresponding CO2 emissions**

*Please note that for separating decimals dot [.] is used. No thousand separators are allowed.*

Locally generated heat/cold	Locally generated heat/cold [MWh]	Energy carrier input [MWh]									CO2 / CO2- eq emissions [t]	Corresponding CO2- emission factors for heat/cold production in [t/MWh]	
		Fossil fuels					Waste	Plant oil	Other biomass	Other renewable			other
		Natural gas	Liquid gas	Heating oil	Lignite	Coal							
Combined Heat and Power													
District Heating plant(s)													
Other <i>Please specify: _____</i>													
<b>Total</b>													

Go to the [last part of the SEAP template ->](#) dedicated to your Sustainable Energy Action Plan!

*DISCLAIMER: The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Communities. The European Commission is not responsible for any use that may be made of the information contained therein.*

More information: [www.eumayors.eu](http://www.eumayors.eu).



LOCAL DISTRICT HEATING / COOLING, CHPs:										
Combined Heat and Power										
District heating plant										
Other - please specify: _____										
<b>LAND USE PLANNING:</b>								<b>3.548,24</b>	<b>1.018,03</b>	
Strategic urban planning	1. Incorporate criteria of sustainability in the urban development planning 2. Introduction a bioclimatic architecture criteria in new buildings	1. Environmental Department 2. Environmental Department	1. 2010-2012 2. 2010-2012	1. - 2. -			1. 2.			
Transport / mobility planning	1. Promote the bicycle use 2. Continue introducing the points of the School ways Plan 3. Promote urban mobility by food	1. Environmental Department 2. Environmental Department 3. Environmental Department	1. 2016-2020 2. 2010-2012 3. 2010-2012	1. - 2. - 3. -			1. 30,83 2. 89,75 3. 897,45			
Standards for refurbishment and new development										
Other - please specify: _____										
<b>PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:</b>								<b>187,52</b>	<b>72,61</b>	
Energy efficiency requirements/standards	1.Promote green purchasing manual of Canet de Mar	1. Environment Department	1. 2010-2012	1. -			1. 3,08			
Renewable energy requirements/standards	1. Incorporating green purchasing criteria in Consell Comarcal del Maresme	1. Environment Department	1. 2013-2015	1. -			1. 69,53			
Other - please specify: _____										
<b>WORKING WITH THE CITIZENS AND STAKEHOLDERS:</b>								<b>327,00</b>	<b>101,72</b>	
Advisory services										
Financial support and grants	1. Bonus the purchase of hybrid and electrical vehicles in the municipal taxes	1. Intervention Department	1. 2016-2020	1. -			1. -			
Awareness raising and local networking	1. Create a environmental channel in the town web to promote reference information 2. Distribution of energy savings associated with the implementation of renewable energy 3. Development a communication campaign of PAES 4. Development a campaign for education in sustainable mobility 5. Conducting an information campaign and promotion of efficiency energy in homes 6. Promote car sharing in the town	1. Environment Department 2. Environment Department 3. Environment Department 4. Environment Department 5. Environment Department 6. Environment Department	1. 2013-2015 2. 2012-2015 3. 2012-2015 4. 2009-2012	1. - 2. 13000 3. 15000 4. - 5. - 6. -			1. - 2. 8,43 3. 8,43 4. 0,54 5.84,32 6. -			
Training and education	1. Stimulating the participation in energetic efficiency in the schools									
Other - please specify: _____										
<b>OTHER SECTOR(S) - Please specify: _____</b>								<b>532,46</b>	<b>372,91</b>	
Other - Please specify: Waste management and water management	1. Improve the waste collection 2. Continue with the installation of saving water systems in municipal buildings 3. Development a campaign to advice the activities and companies in the town to reduce the water consumption 4. Development a campaign to the citizens and distribute water reduction systems	1. Civil Participation Department 2. Civil Participation Departmen 3. Civil Participation Departmen	1. 2010-2012 2. 2010-2012 3. 2013-2015 4. 2013-2015	1. 20000 2. 3. 4. 20000			1. 165,25 2. 6,47 3. 21,94 4. 179,25			
<b>TOTAL:</b>								<b>9.298,31</b>	<b>703,51</b>	<b>9.693,21</b>