



# Sustainable Energy Action Plan (SEAP) template

## MONITORING EMISSION INVENTORY 2016

### 1) Inventory year

2016

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

301.876,00

### 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	18641,20		37580,40										623,50	2044,60				58889,70
Tertiary (non municipal) buildings, equipment/facilities	137387,60		244612,04										84411,00	7836,50				474247,14
Residential buildings	262642,80		1102605,78	15000,00	161507,00								9621,00	6224,30				1557600,88
Municipal public lighting	21612,40																	21612,40
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	491139,90		1469152,11	50797,50									39286,00					2050375,51
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>931423,90</b>	<b>0,00</b>	<b>2853950,33</b>	<b>65797,50</b>	<b>161507,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>133941,50</b>	<b>16105,40</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>4162725,63</b>
<b>TRANSPORT:</b>																		
Municipal fleet	7,50					11616,32	348,70						580,82					12553,34
Public transport	26,10			72839,00		16626,20							831,31					90322,61
Private and commercial transport	7,30			1250,00		1508181,48	311769,30						75409,07					1896617,15
<b>Subtotal transport</b>	<b>40,90</b>	<b>0,00</b>	<b>0,00</b>	<b>74089,00</b>	<b>0,00</b>	<b>1536424,00</b>	<b>312118,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>76821,20</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>1999493,10</b>
<b>Total</b>	<b>931464,80</b>	<b>0,00</b>	<b>2853950,33</b>	<b>139886,50</b>	<b>161507,00</b>	<b>1536424,00</b>	<b>312118,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>76821,20</b>	<b>133941,50</b>	<b>16105,40</b>	<b>0,00</b>	<b>0,00</b>	<b>6162218,73</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	Plant oil	Biofuel	Other biomass	Solar thermal		Geothermal			
<b>BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:</b>																			
Municipal buildings, equipment/facilities	5182,25		7591,24	0,00	0,00	0,00							0,00	0,00	4,36	0,00		12777,86	
Tertiary (non municipal) buildings, equipment/facilities	38193,75		49411,63	0,00	0,00	0,00							0,00	0,00	590,88	0,00		88196,26	
Residential buildings	73014,70		222726,37	3405,00	43283,88	0,00							0,00	0,00	67,35	0,00		342497,29	
Municipal public lighting	6008,25		0,00	0,00	0,00	0,00							0,00	0,00	0,00	0,00		6008,25	
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	136536,89		296768,73	11531,03	0,00	0,00							0,00	0,00	275,00	0,00		445111,65	
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>258935,84</b>	<b>0,00</b>	<b>576497,97</b>	<b>14936,03</b>	<b>43283,88</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>937,59</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>894591,31</b>	
<b>TRANSPORT:</b>																			
Municipal fleet	2,09			0,00		3113,17	87,18						0,00	148,69	0,00			3351,12	
Public transport	7,26			16534,45		4455,82							0,00	212,82	0,00			21210,35	
Private and commercial transport	2,03			283,75		404192,64	77942,33						0,00	19304,72	0,00			501725,46	
<b>Subtotal transport</b>	<b>11,37</b>	<b>0,00</b>	<b>0,00</b>	<b>16818,20</b>	<b>0,00</b>	<b>411761,63</b>	<b>78029,50</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>19666,23</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>526286,93</b>	
<b>OTHER:</b>																			
Waste management																		0,00	
Waste water management																		0,00	
Please specify here your other emissions																		0,00	
<b>Total</b>	<b>258947,21</b>	<b>0,00</b>	<b>576497,97</b>	<b>31754,24</b>	<b>43283,88</b>	<b>411761,63</b>	<b>78029,50</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>19666,23</b>	<b>937,59</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>1420427,80</b>	

Corresponding CO2-emission factors in [t/MWh]

0,278	0,278	0,202	0,227	0,268	0,268	0,25	0,364	0,34	0,33	0,287	0,256	0,007	0	0
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CO2 emission factor for electricity not produced locally [t/MWh]

kg/hab 4,71

#### 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													0,00	0,00
Hydroelectric power													0,00	0,00
Photovoltaic	494,78												137,54884	0,278
Combined Heat and Power													0,00	0,197
Other													0,00	0,197
<b>Total</b>	<b>494,78</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>137,55</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	0,00													
District Heating plant(s)	0,00													
Instalaciones solares térmicas en edificios municipales	0										1549		312,898	0,202
<b>Total</b>													<b>312,90</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

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