



# Sustainable Energy Action Plan (SEAP) template

## MONITORING EMISSION INVENTORY 2012

1) Inventory year 2012  
 For Covenant signatories who calculate their CO2 emissions per capita, please precise here the number of inhabitants during the inventory year: 311501

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	24500,00		36292,56		184,46								265,50	11923,57			73.166,09
Tertiary (non municipal) buildings, equipment/facilities	204885,27		266004,23		52835,00								3536,50				527.261,00
Residential buildings	329442,41		1175456,48	17805,00	140625,54								3888,00				1.667.217,43
Municipal public lighting	32436,60																32.436,60
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	569398,46		1376650,55	74445,00									20948,00				2.041.442,01
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>1160662,73</b>	<b>0,00</b>	<b>2854403,82</b>	<b>92250,00</b>	<b>193645,00</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>28638,00</b>	<b>11923,57</b>	<b>0,00</b>	<b>0,00</b>	<b>4.341.523,12</b>
<b>TRANSPORT:</b>																	
Municipal fleet						11331,81	304,72						566,59				12.203,12
Public transport				68449,98		16582,97							829,15				85.862,10
Private and commercial transport						1426813,22	341843,28						71340,66				1.839.997,16
<b>Subtotal transport</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>68449,98</b>	<b>0,00</b>	<b>1454728,00</b>	<b>342148,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>72736,40</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>1.938.062,38</b>
<b>Total</b>	<b>1160662,73</b>	<b>0,00</b>	<b>2854403,82</b>	<b>160699,98</b>	<b>193645,00</b>	<b>1454728,00</b>	<b>342148,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>72736,40</b>	<b>28638,00</b>	<b>11923,57</b>	<b>0,00</b>	<b>6.279.585,50</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	6811,00		7331,10	0	49,44	0							0	0	1,86	0,00	14.193,39
Tertiary (non municipal) buildings, equipment/facilities	56958,11		53732,85	0	14159,78	0							0	0	24,76	0,00	124.875,50
Residential buildings	91584,99		237442,21	4041,735	37687,64	0							0	0	27,22	0,00	370.783,79
Municipal public lighting	9017,37		0,00	0	0,00	0							0	0	0,00	0,00	9.017,37
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	158292,77		278083,41	16899,015	0,00	0							0	0	146,64	0,00	453.421,83
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>322664,24</b>	<b>0,00</b>	<b>576589,57</b>	<b>20940,75</b>	<b>51896,86</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>200,47</b>	<b>0,00</b>	<b>972.291,89</b>
<b>TRANSPORT:</b>																	
Municipal fleet				0,00		3036,93	76,18						145,047168	0			3.258,15
Public transport				15538,15		4444,24							238	212,262016	0		20.432,61
Private and commercial transport				0,00		382385,94	85460,82						0	18263,2092	0		486.109,97
<b>Subtotal transport</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>15538,15</b>	<b>0,00</b>	<b>389867,10</b>	<b>85537,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>18620,52</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>509.800,73</b>
<b>OTHER:</b>																	
Waste management																	
Waste water management																	
Please specify here your other emissions																	
<b>Total</b>	<b>322664,24</b>	<b>0,00</b>	<b>576589,57</b>	<b>36478,90</b>	<b>51896,86</b>	<b>389867,10</b>	<b>85537,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>18620,52</b>	<b>200,47</b>	<b>0,00</b>	<b>0,00</b>	<b>1.481.735,92</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	0	0
CO2 emission factor for electricity not produced locally [t/MWh]	0,333																

kg/hab 4,76

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	319,6														88,8488
Combined Heat and Power															0
Other															0,197
<b>Total</b>	<b>319,6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>88,8488</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												
District Heating plant(s)	0												
Instalaciones solares térmicas en edificios municipales	0										1326		
<b>Total</b>	<b>0</b>											<b>267,852</b>	<b>0,202</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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