



# Sustainable Energy Action Plan (SEAP) template

## MONITORING EMISSION INVENTORY 2018

### 1) Inventory year

2018

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

298.812,00

### 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	17535,75		34746,02										416,00	0,00		52697,77	0,85	
Tertiary (non municipal) buildings, equipment/facilities	68606,61		240253,50										100400,00	0,00		409260,11	6,63	
Residential buildings	267698,37		1066108,95	14464,00	154291,00								14210,00	0,00		1516772,32	24,57	
Municipal public lighting	17948,47															17948,47	0,29	
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	512223,75		1441827,51	38825,70									48130,00			2041006,96	33,07	
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>884012,95</b>	<b>0,00</b>	<b>2782935,98</b>	<b>53289,70</b>	<b>154291,00</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>163156,00</b>	<b>2614,65</b>	<b>0,00</b>	<b>4040300,28</b>	<b>65,46</b>	
<b>TRANSPORT:</b>																		
Municipal fleet						11164,87	357,40						558,24			12080,51	0,20	
Public transport	197,06		60867,00			19141,66							957,08			81162,80	1,31	
Private and commercial transport	0,00		1439,80			1627710,47	328130,98						81385,52			2038666,77	33,03	
<b>Subtotal transport</b>	<b>197,06</b>	<b>0,00</b>	<b>62306,80</b>	<b>0,00</b>	<b>0,00</b>	<b>1658017,00</b>	<b>328488,38</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>82900,85</b>	<b>0,00</b>	<b>0,00</b>	<b>2131910,09</b>	<b>34,54</b>	
<b>Total</b>	<b>884210,01</b>	<b>0,00</b>	<b>2782935,98</b>	<b>115596,50</b>	<b>154291,00</b>	<b>1658017,00</b>	<b>328488,38</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>82900,85</b>	<b>163156,00</b>	<b>2614,65</b>	<b>6172210,37</b>		
<b>% respecto del total</b>	<b>14,33</b>		<b>45,09</b>	<b>1,87</b>	<b>2,50</b>	<b>26,86</b>	<b>5,32</b>						<b>1,34</b>	<b>2,64</b>				
Municipal purchases of certified green electricity (if any) [MWh]:																	kg/hab	20,66
CO2 emission factor for certified green electricity purchases (for LCA approach):																		

#### B. CO2 or CO2 equivalent emissions

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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	4874,94		7018,70	0,00	0,00	0,00							0,00	0,00	2,91	0,00	11896,55	0,84
Tertiary (non municipal) buildings, equipment/facilities	19072,64		48531,21	0,00	0,00	0,00							0,00	0,00	702,80	0,00	68306,64	4,80
Residential buildings	74420,15		215354,01	3283,33	41349,99	0,00							0,00	0,00	99,47	0,00	334506,94	23,49
Municipal public lighting	4989,67		0,00	0,00	0,00	0,00							0,00	0,00	0,00	0,00	4989,67	0,35
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	142398,20		291249,16	8813,43	0,00	0,00							0,00	0,00	336,91	0,00	442797,70	31,10
<b>Subtotal buildings, equipments/facilities and industries</b>	<b>245755,60</b>	<b>0,00</b>	<b>562153,07</b>	<b>12096,76</b>	<b>41349,99</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>1142,09</b>	<b>0,00</b>	<b>0,00</b>	<b>862497,51</b>	<b>60,57</b>
<b>TRANSPORT:</b>																		
Municipal fleet	0,00			0,00		2992,19	89,35						0,00	142,91	0,00		3224,45	0,23
Public transport	54,78		13816,81			5129,96							0,00	245,01	0,00		19246,57	1,35
Private and commercial transport	0,00		326,83			436226,41	82032,75						0,00	20834,69	0,00		539420,68	37,88
<b>Subtotal transport</b>	<b>54,78</b>	<b>0,00</b>	<b>14143,64</b>	<b>0,00</b>	<b>0,00</b>	<b>444348,56</b>	<b>82122,10</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>21222,62</b>	<b>0,00</b>	<b>0,00</b>	<b>561891,69</b>	<b>39,46</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>245810,38</b>	<b>0,00</b>	<b>562153,07</b>	<b>26240,41</b>	<b>41349,99</b>	<b>444348,56</b>	<b>82122,10</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>0,00</b>	<b>21222,62</b>	<b>1142,09</b>	<b>0,00</b>	<b>0,00</b>	<b>1424007,09</b>	
<b>% respecto del total</b>	<b>17,26</b>		<b>39,48</b>	<b>1,84</b>	<b>2,90</b>	<b>31,20</b>	<b>5,77</b>						<b>1,49</b>	<b>0,08</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		
CO2 emission factor for electricity not produced locally [t/MWh]																		

#### 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	411,00													114,258	0,278
Combined Heat and Power														0,00	0,197
Other														0,00	0,197
<b>Total</b>	<b>411,00</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>0,00</b>	<b>0,00</b>	<b>114,26</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												1.326,00		267,852	0,202
<b>Total</b>														<b>267,85</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