

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

23.98 (%) by 2020

?

Instructions

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)

The long-term vision of the municipality of Bocenago is based on the energy and environmental sustainability of the municipal territory. The aim of the local authority is indeed the promotion of the renewable energy, with particular attention on the facilities and funding for their use.

3) Organisational and financial aspects

Coordination and organisational structures created/assigned	The municipal structure is composed by: the mayor ; the Energy and Environmental Department
Staff capacity allocated	The SEAP was developed by two external consulting firms. For the monitoring phases the local authority would like to do it, when it is possible, with their own internal resources
Involvement of stakeholders and citizens	In order to involved the stakeholders and the citizens the local autorithy has decided to organaize public meeting and debates, and website
Overall estimated budget	€ 7 889 940.00
Foreseen financing sources for the investments within your action plan	Internal resources; european, national, regional funding; private funding
Planned measures for monitoring and follow up	The first monitoring it is planned in 2014 and it will analyze what it was done and what it has still to be done. The monitoring process will allow to adjust the actions that were though in the case that

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

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BASELINE EMISSION INVENTORY

1) Inventory year

2007

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

406

**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	
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:															
Municipal buildings, equipment/facilities	37.29					128									165.29
Tertiary (non municipal) buildings, equipment/facilities	477.18			32.68		2910.99							72.42		3493.27
Residential buildings	664.43			294.15		2819.94							651.75		4430.27
Municipal public lighting	124.04														124.04
Industries (excluding industries involved in the EU Emission trading scheme - ETS)															0
Subtotal buildings, equipments/facilities and industries	1302.94	0	0	326.83	0	5858.93	0	0	0	0	0	0	724.17	0	8212.87
TRANSPORT:															
Municipal fleet						13.89	5.56								19.45
Public transport						10.78									10.78
Private and commercial transport				45.66		1409.9	1046.92								2502.48
Subtotal transport	0	0	0	45.66	0	1434.57	1052.48	0	0	0	0	0	0	0	2532.71
Total	1302.94	0	0	372.49	0	7293.5	1052.48	0	0	0	0	0	724.17	0	10745.58

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

2.1.10.3. GCE-equivalent emissions
Please note that for separating decimals dot [.] is used. No thousand separators are allowed.

For more information, contact the Office of the Vice President for Research and Economic Development at 319-273-2500 or research@uiowa.edu.

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			
		Natural gas	Liquid gas	Heating oil	Lignite	Coal								
Wind power														
Hydroelectric power														
Photovoltaic														
Combined Heat and Power														
Other														
<i>Please specify:</i> _____														
Total														

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> _____														
Total														

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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SUSTAINABLE ENERGY ACTION PLAN

1) Title of your Sustainable Energy Action Plan

SEAP: Sustainable Energy Action Plan of the municipality of Bocenago



Instructions

2) Key elements of your Sustainable Energy Action Plan

Green cells are compulsory fields

Grey fields are non editable

<i>Photovoltaic</i>	Action 1: Installation of a photovoltaic plant on municipal building Action 2: Installation of photovoltaic plants on residential buildings (2007 - 2012) Action 3: Installation of photovoltaic plants on residential buildings (2012 - 2020)	1: Public Administration 2: Private sector 3: Private sector	1. 2012 - 2016 2. 2007 - 2012 3. 2012 - 2020	1. € 14000 2. investment already made 3. € 40000	1. 13.2 2. 9.72 3. 23.10	1. 6.38 2. 4.70 3. 11.16	3.	
<i>Combined Heat and Power</i>								
<i>Other - please specify:</i> _____								
LOCAL DISTRICT HEATING / COOLING, CHPs:								480 128.16
<i>Combined Heat and Power</i>								
<i>District heating plant</i>	District heating of municipal buildings	Public Administration	2016 - 2020	€ 600 000	480	128.16		
<i>Other - please specify:</i> _____								

LAND USE PLANNING:								
<i>Strategic urban planning</i>	Strategic urban planning and Energy Policy	Public Administration	2013			Unquantifiable	Unquantifiable	
<i>Transport / mobility planning</i>								
<i>Standards for refurbishment and new development</i>								
<i>Other - please specify:</i>								
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:								
<i>Energy efficiency requirements/standards</i>								
<i>Renewable energy requirements/standards</i>								
<i>Other - please specify:</i>								
WORKING WITH THE CITIZENS AND STAKEHOLDERS:								
<i>Advisory services</i>								
<i>Financial support and grants</i>								
<i>Awareness raising and local networking</i>	Action 1: Website and Newsletter Action 2: Flyers and Brochure Action 3: Newspaper articles Action 4: Deployment of an Energy meter (tools that allows to measure the electricity consumption in real time) to all the families of the municipality	1: Public Administration 2: Public Administration 3: Public Administration 4: Public Administration	1: 2013 2: 2013 - 2020 3: 2013 - 2020 4: 2013 - 2020	1. € 1000 2. € 1500 3. Unquantifiable 4. € 7500	1. Unquantifiable 2. Unquantifiable 3. Unquantifiable 4. Unquantifiable	1. Unquantifiable 2. Unquantifiable 3. Unquantifiable 4. Unquantifiable		
<i>Training and education</i>	Action 1: Educational activity in schools Action 2: Public meetings and technical workshops	1: Public Administration 2: Public Administration	1. 2013 - 2020 2013 - 2020	2. 1. € 4000 2. Unquantifiable	1. Unquantifiable 2. Unquantifiable	1. Unquantifiable 2. Unquantifiable		
<i>Other - please specify:</i>								
OTHER SECTOR(S) - Please specify:								
<i>Other - Please specify:</i>								
							TOTAL:	1146.63 992.02 701.08

3) Web address

Direct link to the webpage dedicated to your SEAP (if any)

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