

Sustainable Energy Action Plan (SEAP) template

This is a <u>working version for Covenant signatories</u> to help in data collection. However the <u>on-line SEAP template</u>
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	35,89 (%) 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 ac	ion, main trends and challenges)	
The long-term vision of the municipality of Spiazzo is based on the energy and env	ronmental sustainiability of the municipal territory. The aim of the local authority is indeed the	$promotion\ of\ the\ renewable\ energy,\ with\ particular\ attention\ on\ the\ facilities\ and\ funding\ for\ their\ usage,\ and,$
3) Organisational and financial aspects		
Coordination and organisational structures created/assigne	The municipal structure is composed by: the mayor; the Energy and Environmental Department	nent
Staff capacity allocate	The SEAP was developed by two external consulting firms. For the monitoring phases the le	ocal authority would like to do it, when it is possible, with their own internal resorces
Involvement of stakeholders and citizen	In order to involved the stakeholders and the citizens the local autorithy has decided to orga	naize public meeting and debates, and website
Overall estimated budge	t	7.964.940,00
Foreseen financing sources for the investments within your action pla	Internal resources; european, national, regional funding; private funding	
Planned measures for monitoring and follow u	The first monitoring it is planned in 2014 and it will analyze what it was done and what it ha	s still to be done. The monitoring process will allow to adjust the actions that were thought in the case that there

Go to the <u>second part of the SEAP template -></u> dedicated to your Baseline Emission Inventory!

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BASELINE EMISSION INVENTORY

Inventory year For Covenant signatories who calculate their CO2 emissions per capita, please precipitation.	2007 cise here the number of inhabitants <u>during the inventory year</u> : 1250	? Instructions
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) Kev 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.

							FINAL E	NERGY CON	NSUMPTIO	ON [MWh]						
						Fossil f	uels					Re	newable ene	rgies		
Category	Electricity	Heat/cold	Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biomass	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:																
Municipal buildings, equipment/facilities	100,59					565										665,59
Tertiary (non municipal) buildings, equipment/facilities	2043,24			113,63		8558,28							212,57			10927,72
Residential buildings	1572,73			1022,68		8118,41							1913,15			12626,97
Municipal public lighting	226,04															226,04
Industries (excluding industries involved in the EU Emission trading																0
scheme - ETS)																U
Subtotal buildings, equipments/facilities and industries	3942,6	0	0	1136,31	0	17241,69	0	0	0	0	0	0	2125,72	0	0	24446,32
TRANSPORT:																
Municipal fleet						19,73	5,66									25,39
Public transport						111,53										111,53
Private and commercial transport				152,12		4023,38	2883,41									7058,91
Subtotal transport	0	0	0	152,12	0	4154,64	2889,07	0	0	0	0	0	0	0	0	7195,83
Total	3942,6	0	0	1288,43	0	21396,33	2889,07	0	0	0	0	0	2125,72	0	0	31642,15

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.

						(CO2 emissio	ns [t]/ CO2	equivaler	nt emissions [t						
						Fossil f	uels					Re	newable ene	rgies		
Category	Electricity	Heat/cold	Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Biofuel	Plant oil	Other biomass	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENT/FACILITIES AND INDUSTRIES:																
Municipal buildings, equipment/facilities	48,08					150,855										198,93702
Tertiary (non municipal) buildings, equipement/facilities	976,67			25,79		2285,0608										3287,52349
Residential buildings	751,76			232,15		2167,6155										3151,52877
Municipal public lighting	108,05															108,04712
Industries (excluding industries involved in the EU Emission trading																0
scheme - ETS)																U
Subtotal buildings, equipments/facilities and industries	1884,56	0,00	0,00	257,94	0,00	4603,53	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6746,04
TRANSPORT:																
Municipal fleet						5,27										6,67725
Public transport						29,78										29,77851
Private and commercial transport				34,53		1074,24	717,97									1826,74279
Subtotal transport	0,00	0,00	0,00	34,53	0,00	1109,29	719,38	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1863,20
OTHER:																
Waste management																
Waste water management																
Please specify here your other emissions																
Total	1884,56	0,00	0,00	292,47	0,00	5712,82	719,38	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8609,23
Corresponding CO2-emission factors in [t/MWh]	0,478		0,202	0,227		0,267	0,249				"		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	Locally generated					Energy ca	arrier input	[MWh]					CO2 / CO2- eq	Corresponding CO2- emission factors for
(excluding ETS plants , and all plants/units > 20 MW)	electricity			Fossil fuels			Steam	Waste	Plant oil	Other	Other	other	emissions	electricity production in
	[MWh]	Natural gas	Liquid gas	Heating oil	Lignite	Coal	Steam	waste	Platit Uli	biomass	renewable	otilei	[t]	[t/MWh]
Wind power														
Hydroelectric power														
Photovoltaic														
Combined Heat and Power														
Other														
Please specify:														
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		Energy carrier input [MWh]					CO2 / CO2- eq	Corresponding CO2- emission factors for				
Locally generated heat/cold	heat/cold		Waste Plant oil other		emissions	heat/cold production in							
	[MWh]	Natural gas	Liquid gas	Heating oil	Lignite	Coal	waste	Flant on	biomass	renewable	Other	[t]	[t/MWh]
Combined Heat and Power													
District Heating plant(s)													
Other													
Please specify:													
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

Title of your Sustainable Energy Action Plan SEAP: Sustainable Energy Action Plan of the municipality of Spiazzo]				?	Instructions	
Date of	formal approval Authority appro	oving the plan]						
2) Key elements of your Sustainable Energy Action Plan										
Green cells are compulsory fields	Grey fields are non editable]							
SECTORS & fields of action	KEY actions/measures <u>per field of action</u>	Responsible department, person or company (in case of involvement of 3rd parties)	Implementation [start & end time]	Estimated costs per action/measure	Expected energy saving <u>per</u> <u>measure</u> [MWh/a]	energy	Expected CO2 reduction per measure [t/a]	Energy saving target per sector [MWh] in 2020	Local renewable energy production target per sector [MWh] in 2020	CO2 reduction target per sector [t in 2020
BUILDINGS, EQUIPMENT / FACILITIES & INDUSTRIES:			_					1590,87		506,2
Municipal buildings, equipment/facilities	Action 1: Installation of flow reducers (water salving) in all the municipal buildings Action 2: Adhesion to the Green light project in order to improve the lighting efficiency Action 3: Installation installation of thermostatic valves Installation of solar panels on school building	Public Administration Public Administration Public Administration Public Administration 4: Public Administration	1. 2013 - 2020 2. 2012 - 2016 3. 2013 - 2020 4. 2012	1. € 500 2. Unquantifiable 3. € 6000 4. investment already made	1. 12.65 2. 1.66 3. 84.75 4. 9.00		1. 3.38 2. 0.79 3. 22.63 4. 2.40			
Tertiary (non municipal) buildings, equipment/facilities										
Residential buildings	Action 1: Installation of heat pump Installation of heat pump Installation or exidential buildings Installation of thermostatic valves Action 5: replacement of lamps with high efficiency ones Action 5: replacement antiquated appliances Action 7: installation of solar panels (2007-2012) Action 7: installation of solar panels (2012-2020)	1: Private sector 2: Private sector 3: Private sector 4: Private sector 5: Private sector 5: Private sector 7: Private sector 7: Private sector 7:	1. 2013 - 2020 2. 2012 - 2020 3. 2012 - 2020 4. 2013 - 2020 5. 2012 - 2020 6. 2007 - 2012 7. 2012 - 2020	1. Unquantifiable 2. € 1500000 3. € 35000	1. 331.63 2. 205.62 3. 342.06 4. 73.22 5. 171.12 6. 114.16 7. 105.00		1. 88.54 2. 54.90 3. 91.33 4. 35.00 5. 81.80 6. 30.48 7. 28.04			
Municipal public lighting	Renewal of the municipal public lighting with high efficiency lighting	Public Administration	2013-2020	€ 667.940	140		66,92			
Industries (excluding industries involved in the EU Emission trading scheme - ETS) & Small and Medium Sized Enterprises (SMEs) Other - please specify:										
TRANSPORT:								1798,04		466,5
Municipal fleet	Replacement of municipal vehicles with more efficient ones	Public Administration	2012	Unquantifiable	1,22		0,33			.00,5
Public transport										
Private and commercial transport	Renewal of the private fleet	Private sector	2013 - 2020	Unquantifiable	1796,82		466,25			
Other - please specify:										
LOCAL ELECTRICITY PRODUCTION:									3038,03	1467,2
Hydroelectric power	Action 1: Hydroelectric power plant on Bedü Action 2: Hydroelectric power plant on aqueduct of Spiazzo	1: Public Administration 2: Public Administration	1. 2012 - 2016 2. 2012 - 2016	1. € 1.400.000 2. € 95000		1. 2.000,00 2. 218.42	1. 966,00 2. 105.50			
Wind power										

Photovoltaic	Action 1: Installation of a photovoltaic plant on municipal building Action 2:Installation of photovoltaic plants on earth Action 3:Installation of photovoltaic plants on residential buildings (2007 - 2012) Action 4: Installation of photovoltaic plants on residential buildings (2012 - 2020) Action 5: Installation of photovoltaic plants on tertiary buildings (2007 - 2012) Action 6: Installation of photovoltaic plants on tertiary buildings (2012 - 2020)	4: Private sector 5:Private sector	5. 2007 - 2012	1. investment already made 2. € 20000 3. investment already made 4. € 100000 5. investment already made 6. € 500000	2. 14.40 3. 52.59 4. 69.30 5. 312.71	1. 11.52 2. 6.96 3. 25.40 4. 33.47 5. 151.04 6.		
Combined Heat and Power								
Other - please specify:								
LOCAL DISTRICT HEATING / COOLING, CHPs:							2435	650,15
Combined Heat and Power								
District heating plant	District heating of municipal buildings	r done Administración	2012 - 2020	€ 3.434.000	2435	650,15		
Other - please specify:								

LAND USE PLANNING:										
Strategic urban planning	Strategic urban planning and Energy Policy	Public Administration	2013		Unquantifiable		Unquantifiable			
Transport / mobility planning										
Standards for refurbishment and new development										
Other - please specify:										
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:										
Energy efficiency requirements/standards										
Renewable energy requirements/standards										
Other - please specify:										
WORKING WITH THE CITIZENS AND STAKEHOLDERS:										
Advisory services										
Financial support and grants										
Awareness raising and local networking	Action 1: Website and Newsletter Action 2: Flyers and Brochure Action 3: Newspaper articles Action 4: Deloyment 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. € 1000 2. € 1500 3. Unquantifiable 4. € 7500	Unquantifiable Unquantifiable Unquantifiable Unquantifiable		Unquantifiable Unquantifiable Unquantifiable Unquantifiable Unquantifiable			
Training and education	Action 1: Educational activity in schools Action 2: Public meetings and technical workshops	1: Public Administration 2: Public Administration	1. 2013 - 2020 2. 2013 - 2020	1. € 4000 2. Unquantifiable	Unquantifiable Unquantifiable		Unquantifiable Unquantifiable			
Other - please specify:										
OTHER SECTOR(S) - Please specify:										
Other - Please specify:										
			•	•		TOTAL:	•	3388.91	5473.03	3090

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