# Sant Joan Despí SEAP





# **Document IV**

**SEAP** Template

March 2010

Convenant of Mayors Convented to local ustatable onegy	Sustainable Energy Action Plan (SEAP) template - Revised version (05/08/09) - The Sustainable Energy Action Plan template should help the Covenant of Mayors signatories to fix their CO2 emission reduction target, structure their actions/measures and monitor their implementation. At the same time, the SEAP template is a valuable tool for collecting key data from their Baseline Emission Inventory and SEAP, and thus allowing exchange of experience. Highlights of the collected information will be shown on-line at the Covenant of Mayors website.									
Covenant signatory: Covenant Coordinator:	Name       Sant Joan Despí       Country       SPAIN       Number of inhabitants       31.671       Date of adhesion       17/03/2009       Website       www.sidespi.com       ()         Name/Rosa Maria Canals       Fuction       OTCCS       Organitzation       Diputació de       E-mail       canalsgr@diba.cat       Tell(+0034) 93 402 22 22									
<ol> <li>Overall CO2 emissions reduction target</li> <li>Please tick the corresponding box</li> <li>Long-term vision of your local authority (please included)</li> </ol>	20%       by       2020 <ul> <li>Absolute reduction</li> <li>Per capita reduction</li> </ul> e priority areas of action, main trends and challenges)									
The priority areas for action are those in which the council has direct competence: public and fire lighting, city buildings and facilities, municipal and outsourced services fleet and public transport (78% of actions are these areas). The rest are connected with the areas where the City Council can only influence, as waste and water management, services, residential buildings or urban mobility. The areas of direct competence of the City Council have experienced a reduction in their emissions of 4.9% between 2005 and 2007. However, the other areas has grown by 3.6%. The main challenges of the plan focuse on technological improvement of public and traffic lighting, increase of efficience on public buildings and facilities, use of biofuels and implementation of environmental criteria in municipal, outsourced services and public transport fleet. In addition to that, there are actions to make population aware, change the urban mobility planning and improve the waste and water management.										
3) Organisational and financial aspects										
Coordination and organisational structures cre	ated/assigned Department of Environment of Sant Joan Despi Municipality									
Staff cap	acity allocated The Plan have been carried out in collaboration with "Diputació de Barcelona", Sant Joan Despí City Council and the support of the Environmental Consulting ERF									
Involvement of stakeholder	s and citizens A process of public participation has been carried out, in which citizens, staff and politicians have expressed their points of view and proposals for the plan. These ideas have been collected and introduced into the Action Plan.									

Overall estimated budget 3.175.000 €

Foreseen financing sources for the investments within your action plan Sant Joan Despí Council budget , european funds, spanish and catalan government funds

Planned measures for monitoring and follow up Implementation report every second year and the indicators developed by "Xarxa de Ciutats i Pobles cap a la Sostenibilitat"

# **BASELINE EMISSION INVENTORY**

1) Baseline year:

2005

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

31.671

2) Approach to emissions accounting :

Please tick the corresponding box

- Territorial approach (IPCC)
- Life Cycle Assessment (LCA) approach

#### Key results of the Baseline Emission Inventory

Green cells are compulsory fields

#### A. Final energy consumption

							FINAL ENERG	Y CONSUM	PTION [kV	/h]						
Cotogony						Fossil fue	els				Renewable energies					
Category	Electricity	Heat/cold	Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biommas	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENTS/FACILITIES AND INDUSTRIES:																
Municipal buildings, equipments/facilities	3.368.690	-	1.377.400	-	-	-	-	-	-	-	-	-	-	-	-	4.746.090
Tertiary (non municipal) buildings, equipments/facilities	63.292.026	-	17.072.438	2.351.616	-	3.027.509	-	-	-	18.125.214	-	-	-	-	-	103.868.803
Residential buildings	42.409.965	-	61.503.870	6.236.895	-	4.821.588	-	-	-	4.821.588	-	-	-	-	-	119.793.906
Municipal public lighting	2.940.272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.940.272
Industries (excluding industries involved in the EU Emission trading scheme-ETS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not included
Subtotal buildings, facilities and Industry	112.010.953	0	79.953.708	8.588.511	0	7.849.097	0	0	0	22.946.802	0	0	0	0	0	231.349.071
TRANSPORT:																
Municipal fleet	-	-	-	-	-	504.512	-	-	-	-	-	-	-	-	-	504.512
Public transport	645.570	-	-	-	-	2.294.904	-	-	-	-	-	-	-	-	-	2.940.474
Private and comercial transport	-	-		-	-	130.485.400	54.143.296	-	-	-	-	-	-	-	-	184.628.696
Subtotal transport	645.570	0	0	0	0	133.284.816	54.143.296	0	0	0	0	0	0	0	0	188.073.682
Total	112.656.523	0	79.953.708	8.588.511	0	141.133.913	54.143.296	0	0	22.946.802	0	0	0	0	0	419.422.753

Municipal purchase of certified green electricity purchases (if any) [GWh]:

#### B. CO2-Emissions

	CO2 EMISSIONS [t CO <sub>2+q</sub> ]															
Cotogony		Heat/cold				Fossil fu	els				Renewable energies					T 1
Category	Electricity		Natural gas	Liquid gas	Heating Oil	Diesel	Gasoline	Lignite	Coal	Other fossil fuels	Plant oil	Biofuel	Other biommas	Solar thermal	Geothermal	Total
BUILDINGS, EQUIPMENTS/FACILITIES AND INDUSTRIES:																
Municipal buildings, equipments/facilities	1.620	-	278	-	-	-	-	-	-	-	-	-	-	-	-	1.898
Tertiary (non municipal) buildings, equipments/facilities	30.443	-	3.451	536	-	2.678	-	-	-	941	-	-	-	-	-	38.049
Residential buildings	20.399	-	12.434	1.420	-	2.230	-	-	-	1.305	-	-	-	-	-	37.788
Municipal public lighting	1.414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.414
Industries (excluding industries involved in the EU Emission trading scheme-ETS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not included
Subtotal buildings, facilities and Industry	53.877	0	16.163	1.956	0	4.908	0	0	0	2.246	0	0	0	0	0	79.150
TRANSPORT:																
Municipal fleet	-	-	-	-	-	141	-	-	-	-	-	-	-	-	-	141
Public transport	311	-	-	-	-	614	-	-	-	-	-	-	-	-	-	925
Private and comercial transport	-	-	-	-	-	35.582	13.795	-	-	-	-	-	-	-	-	49.377
Subtotal transport	311	0	0	0	0	36.337	13.795	0	0	0	0	0	0	0	0	50.443
OTHER:																
Traffic lights																
Total	54.188	0	16.163	1.956	0	41.245	13.795	0	0	2.246	0	0	0	0	0	129.593
Corresponding CO2-emission factors in [kg/kWh]	0.48	_	0.20	0.23		0.29	0.25		-	0.10	-	-		-	_	0.31

#### C. Local electricity production and corresponding CO2 emissions

	Locally				CO2	Corresponding CO2-emission									
Locally generated electricity (excluding ETS plants, and all plants/units > 20 MW)	Generated Electricity	Fossil fuels						Diamt all	0/h -= h i	01h	011-0-0	emissions	actors for electricity production		
	[MWh]	Natural gas	Liquid gas	Heating Oil	Lignite	Coal	waste	Plant oli	Other biommas	Other renewable	Other	[kt]	in [kg/kWh]		
Wind farm	-	-	-	-	-	-	-	-	-	-	-				
Hydroelectric power	-	-	-	-	-	-	-	-	-	-	-				
Photovoltaic	-	-	-	-	-	-	-	-	-	-	-	0	0		
CHPs	-	-	-	-	-	-	-	-	-	-	-	Ŭ	Ŭ		
Other Please specify:	-	-	-	-	-	-	-	-	-	-	-				
Total	0,00	0	0	0	0	0	0	0	0	0	0				

### D. Local heat/cold production (district heating/cooling, CHPs...) and corresponding CO2 emissions

	Locally	Energy carrier input [GWh]										<u> </u>	Corresponding CO2-
Locally generated heat/cold	Generated Electricity [GWh]		I	Fossil fuels						Other renewable		emissions	emission factors for heat/cold production in
		Natural gas	Liquid gas	Heating Oil	Lignite	Coal	Waste	Plant oil	Other blommas		Other	[kt]	[kg/kWh]
CHPs		-	-	-	-	-	-	-	-	-	-		
District Heating plant(s)		-	-	-	-	-	-	-	-	-	-	0	0
Other Please specify:	-	-	-	-	-	-	-	-	-	-	-	U	U
Total	0	0	0	0	0	0	0	0	0	0	0		

LATEST EMISSION INVENTORY

If other inventory(ies) have been carried out (i.e. after your Baseline year), please click here to make appear extra tables  $\rightarrow$ 

## SUSTAINABLE ACTION PLAN

1) Title of your Sustainable Energy Action Plan		
Sustainable Action Plan of Sant Joan Despí		
	Date of formal approval	15/04/2010 hority approving the plan Sant Joan Despi Council
2) Time frame of your Sustainable Energy Action Plan		2005 to 2020

2) Time frame of your Sustainable Energy Action Plan
 3) Key elements of your Sustainable Energy Action Plan

SECTORS & optional fields of action	KEY actions/measures per field of action	Responsible department, person or company (in case of involvement of 3rd perties)	Implementation [start & end time]	Estimated costs per action/mea sure	Expected energy saving per measure [kWh/a]	Expected energy production per measure [kWh/a]	Expected CO2 reduction per measure [t/a]	Energy saving target per sector [kWh] in 2020	CO2 reduction target per sector [t] in 2020		
BUILDINGS, EQUIPME	JILDINGS, EQUIPMENTS/FACILITIES AND SERVICES										
Municipal buildings	1.1/1: Implementation of actions arising from VAE	Public ways, municipal services and maintenance	Continue	490.000	910.000	-	300				
and equipments	1.1/2: Conducting energy audits on municipal facilities that have not been the subject of VAE and implementing the measures deriving	Public ways, municipal services and maintenance	Continue	750.000	1.500.000	-	200				
	1.3/1: Improving energy efficiency in public lighting in Sant Joan Despí	Public ways, municipal services and maintenance	Punctual	350.000	650.000	-	250				
Municipal public lighting	1.3/2: Setting up of regulatory flow header	Public ways, municipal services and maintenance	Punctual	75.000	650.000	-	250	40.234.448	14.185		
	1.3/3: Replacement of incandescent lights to LED modules	Public ways, municipal services and maintenance	Punctual	345.000	275.000	-	105				
Domestic sector	1.4/1: Plan to reduce energy consumption in domestic sector	Planning and urbanism	Punctual	60.000	16.500.000	-	5.300				
Tertiary sector	1.5/1: Plan to reduce energy consumption in tertiary sector	Planning and urbanism	Punctual	60.000	12.000.000	-	5.350				
TRANSPORT							-				
M	<ol> <li>2.1/1: Gradual replacement of the existing vehicle fleet with vehicles for their own municipal energy efficiencies higher</li> </ol>	Public ways, municipal services and maintenance	Continue	n.q.	100.000	-	20	400.000	20		
Municipal fieet	2.1/2: Incorporating the concept of energy efficiency of vehicles in the folds of contracting services	Planning and urbanism	Periodic	-	150.000	-	40	100.902	28		
LOCAL ELECTRICITY	PRODUCTION										
Renewable energy	3.1/1: Creating a record of solar panels and solar power generated in the municipality	Planning and urbanism	Continue	5.000	-	-	-				
production	3.1/2: Setting up of renewable energy generation systems	Planning and urbanism	Periodic	815.000	440.000	440.000	200	-	-		
LAND USE PLANNING		· 			- 	3 					
	4.2/1: Creating the Urban Mobility Plan	Planning and urbanism	Punctual	40.000	37.000.000	-	9.880	00.5515			
MODILITY OF TRANSPORT	4.2/2: Implementation of measures to encourage the use of electric vehicles	Planning and urbanism	Continue	30.000	12.000.000	-	3.000	36.824.837	9.875		
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES											
Renewable enrgy requirements	5.2/1: Green energy purchase	Public ways, municipal services and maintenance	Continue	-	-	-	50				

WORKING WITH THE	CITIZENS AND STAKEHOLDERS								
Consulting services	6.1/1: Creating position of energy manager	Planning and urbanism	Punctual	40.000	250.000	-	10		
Financing and subventions	6.2/1: Implementation of energy efficiency program 50 - 50 for sports and educational facilities	Planning and urbanism	Punctual	20.000	375.000	-	80		
Working with local networks	6.3/1: Creating a section on the website of the City Council to monitor the status of PAES	Planning and urbanism	Continue	15.000	-	-	-	-	
Environmental formation and education	6.4/1: Membership of the municipality schools program of the Government "Green Schools" Program or a local equivalent of environmental education in classrooms	Planning and urbanism	Punctual	45.000	250.000	-	90		
OTHER SECTORS									
Waste management	7.1/1: Promotion of selective collection by a waste prevention plan	Planning and urbanism	Punctual	50.000	n.q.	-	1.300		
Water	7.2/1: Campaign saving and water harvesting	Planning and urbanism	Periodic	15.000	210.000	-	100	582.446	1.45

Other	7.3/1: Implementation of actions not made in local Agenda 21	Planning and urbanism	Periodic	n.q.	n.q.	-	n.q.		
Total				3.175.000	83.260.000	440.000	26.525	77.742.634	25.539

nq means non quantifiable

#### 4) Web address

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

It doesn't exist

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More information: www.eumayors.eu.