

Sustainable Energy Action Plan of Hospitalet de Llobregat 2009

Population	266.973	inh.
Seasonal population	266.973	inh.
Total surface area	12,49	Km ²
Urban land	12,49	Km ²
Urban waste production	0,11	kg/cap.day
Water consumption	137	litres/cap.day
Energy consumption	10.882	kWh/cap.
Type of municipality ¹	Residence	

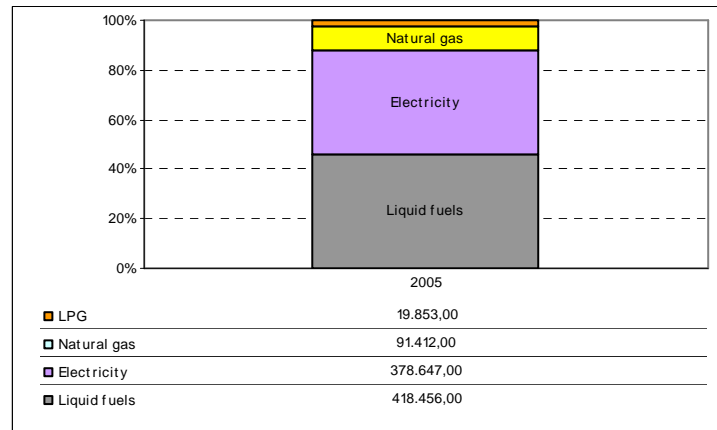
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1 Emission assessment

1.1 General evolution of the municipality considering all sectors

1.1.1 Emissions per sources



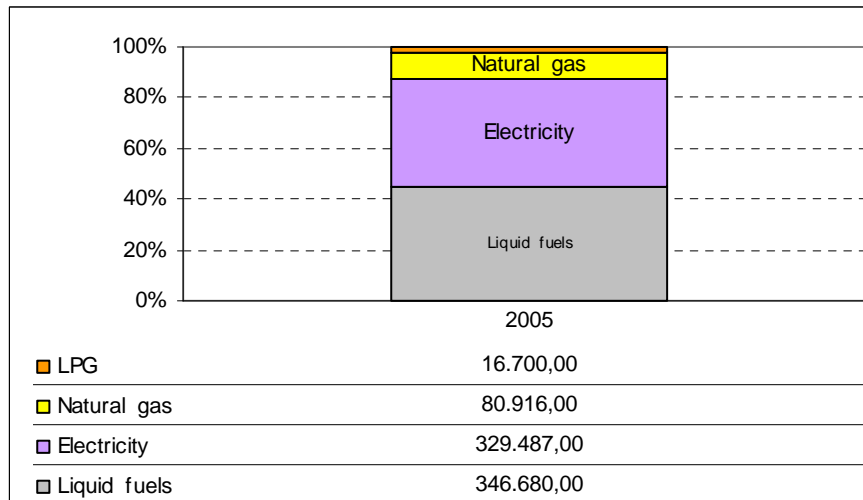
Source: ICAEN (Catalan Institute of Energy)
LPG: Liquefied Petroleum Gas

1.1.2 Municipality's total emissions

	2005
Total tCO ₂ eq.	994.552
tCO ₂ eq. /cap.	3,73

1.2 General emission evolution in SEAP categories

1.2.1 Emissions per sources



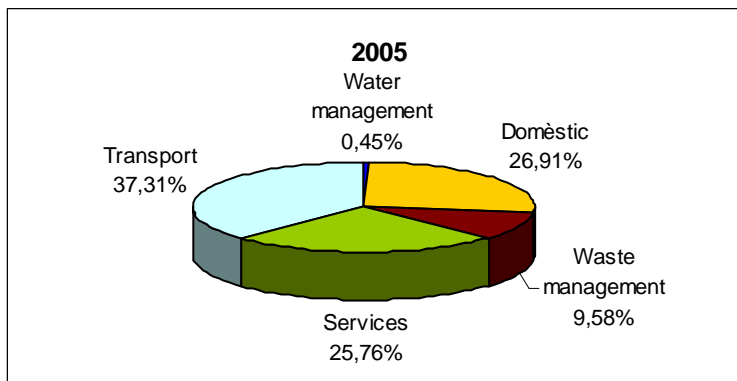
Source: ICAEN

1.2.2 Total SEAP emissions

	2005
Total tCO ₂ eq.	773.783
tCO ₂ eq. /cap.	2,90
Reduction percentage	22,25%

Source: ICAEN, Ajuntament de l'Hospitalet

1.2.3 SEAP emissions per sectors



Source: ICAEN, Ajuntament de l'Hospitalet

1.2.4 Local energy production less than 20 MW (%)

		2005	2007
Private sector	Renewable sources	0,13%	
	Other		
Municipal public sector	Renewable sources	6,05%	
	Other		
Other	Renewable sources		
	Other		

Source: ICAEN, Ajuntament de l'Hospitalet

1.3 Town council emissions

1.3.1 Town council emissions

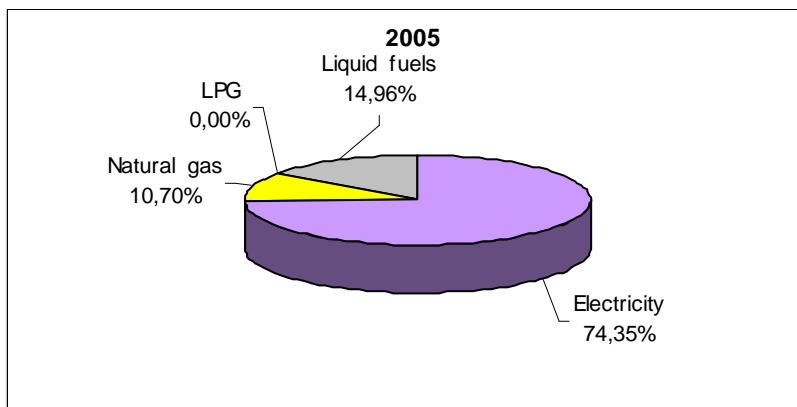
	2005	2007
Total tCO ₂ eq.	19.350	
tCO ₂ eq. /cap.	0,072	
% of the total municipality's emissions	2,13%	

Source: ICAEN, Ajuntment de l'Hospitalet

1.3.2 Town council emissions per sources

	2005	2007
Electricity	14.386	
Natural gas	2.070	
Liquefied Petroleum Gas (LPG)		
Liquid fuels	2.894	

Source: ICAEN, Ajuntment de l'Hospitalet

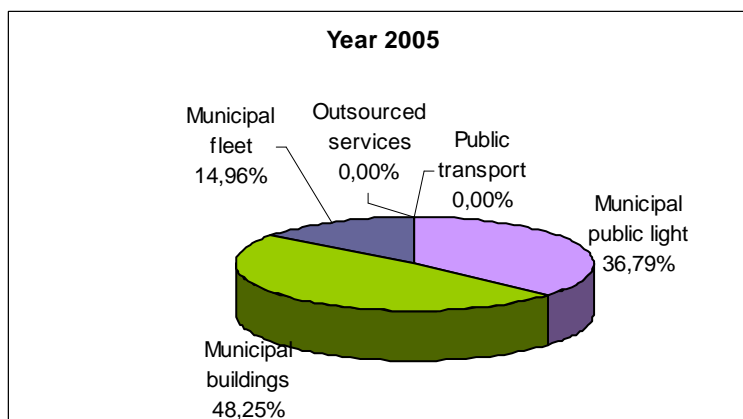


Source:

1.3.3 Town council emissions per sectors

	2005	2007
Municipal public lighting (including traffic lights)	7.119	
Municipal buildings/facilities	9.337	
Municipal fleet	2.894	
Outsourced services fleet		
Public transport		

Source: ICAEN, Ajuntment de l'Hospitalet



Source: ICAEN, Ajuntment de l'Hospitalet

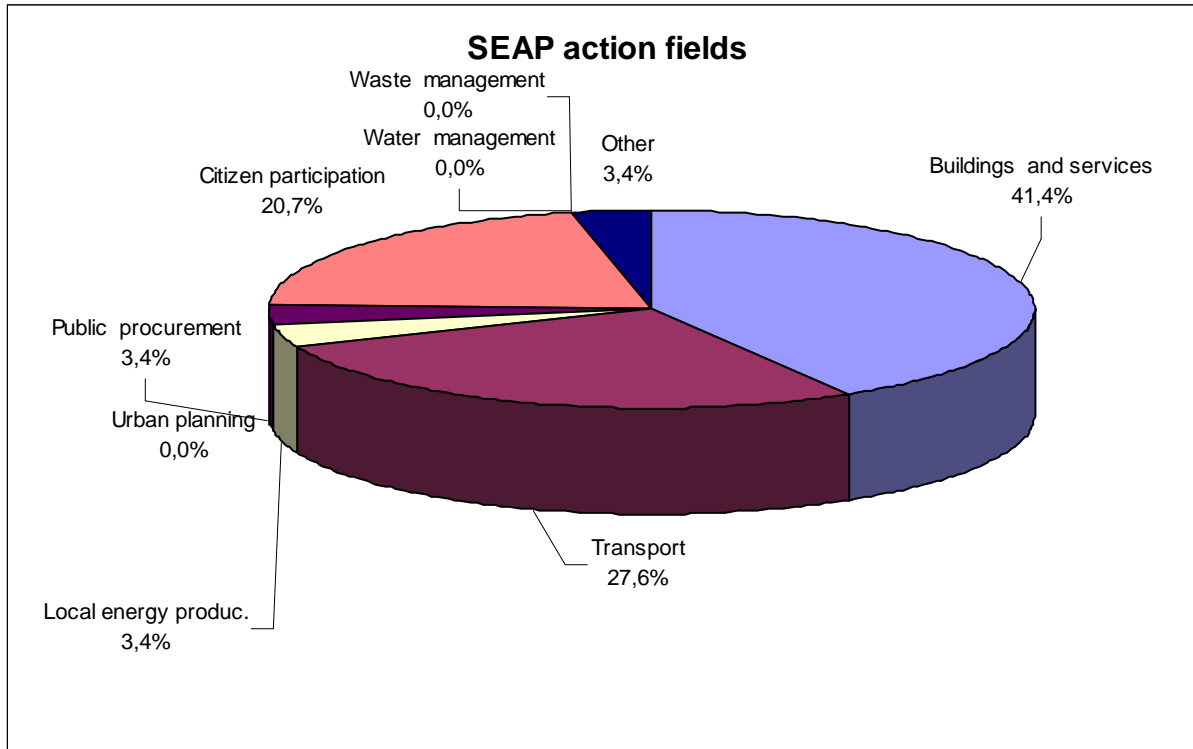
1.3.4 Highest consumers of municipal buildings/facilities (%)

Highest	Buildings/facilities	2005	2007
	Public+Street Lighting	36,79 %	
	Buildings	48,25%	
	Municipal Vehicles Fleet	14,96%	
lowest			

Source: ICAEN, Ajuntment de l'Hospitalet

2 Action plan

2.1 Selection of action fields²



Source: ICAEN, Ajuntment de l'Hospitalet

SEAP emissions reduction target >20% (%)	21,6%
SEAP emissions reduction target (tones) (*)	1.756.760
SEAP emissions reduction target (tones/capita)	6,58
Number of actions of the SEAP	29

(*) there are actions that haven't been quantified, but they will contribute to emission reduction therefore the final reduction will exceed the established target (20%)

² % of the number of actions for each SEAP action field

SECTORS & optional fields of action	Energy saving target per sector [GWh] in 2020	CO₂ reduction target per sector [kt] in 2020	Actions/measures per field of action	Responsible department, person	Implementation [start & end time]	Estimated costs per action/measure	Expected CO₂ reduction per measure [kt/a]
BUILDINGS, EQUIPMENTS/FACILITIES AND INDUSTRIES:	775.298.729	343.737	Various	Municipal Environement Authority	2010-2020	437.753.250	23,10%
Municipal buildings, equipments/facilities	8.511.764	3.771	Climate	Municipal Environement Authority	2010-2020	5.181.250	18,65%
Tertiary (non municipal) buildings, equipments			Led-Light Reduction	Environement			
Residential buildings							
Municipal public lighting (including traffic lights)	6.600.372	2.924	Proper Use	Town Council	2010-2020	4.069.000	44,60%
Optional additional field(s) of action - please specify:	2.245.593	995	Efficiency	Town Council	2010-2020		8,56%
TRANSPORT:	177.445.748	46.156			2010-2020	55.000.000	14,99%
Municipal fleet and outsourced services fleet	533.512	145	Efficiency	Town Council	2010-2020	1.000.000	5,04%
Public transport	1.630.537	440	Gas	Town Council	2010-2020	3.000.000	11,62%
Private and commercial transport	175.281699	45.573	Hybrid or Elec.	Private	2010-2020	51.000.000	15,05%
Optional additional field(s) of action - please specify:							
LOCAL ELECTRICITY PRODUCTION:							
Hydroelectrical power							

SECTORS & optional fields of action	Energy saving target per sector [GWh] in 2020	CO ₂ reduction target per sector [kt] in 2020	Actions/asures per field of action	Responsible department, person	Implementation [start & end time]	Estimated costs per action/measure	Expected CO ₂ reduction per measure [kt/a]
Wind farm							
PVs							
CHPs			Cogeneration	Environement			
Optional additional field(s) of action - please specify:			Photovoltaic Plaques	Environement	Actually	16.788.000	
LAND USE PLANNING:							
Strategic urban planning			The issue of Energy	Town Council			
Transport / mobility planning			Certificate	Town Council			
Standards for refurbishment and new development			Promotion bying With criteria	Town Council			
Optional additional field(s) of action - please specify:			Creation of municipal parks	Town Council			
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:							
Energy efficiency requirements/standards			Proper use	Private			
Renewable energy requirements/standards			Promotion everything renewable	Private			
Optional additional field(s) of action - please specify:			Advise services	Private			
WORKING WITH THE CITIZENS AND							

SECTORS & optional fields of action	Energy saving target per sector [GWh] in 2020	CO ₂ reduction target per sector [kt] in 2020	Actions/measures per field of action	Responsible department, person	Implementation [start & end time]	Estimated costs per action/measure	Expected CO ₂ reduction per measure [kt/a]
STAKEHOLDERS (CITIZEN PARTICIPATION)							
Advisory services			Radio + TV	Town Council			
Financial support and grants			Financial Support	Banking			
Awareness raising and local networking			Creation of Municipal Parks	Town Council			
Training and education			Organize Open Sessions	Environment			
Optional additional field(s) of action - please specify:			Organize Varius working Parties	Environment			
OTHER SECTOR(S) - Please specify:							
Waste management							
Water management							
Other actions. Please specify:							
TOTAL							