



Plan of Action for the Sustainable Energy of the municipality of Abrera



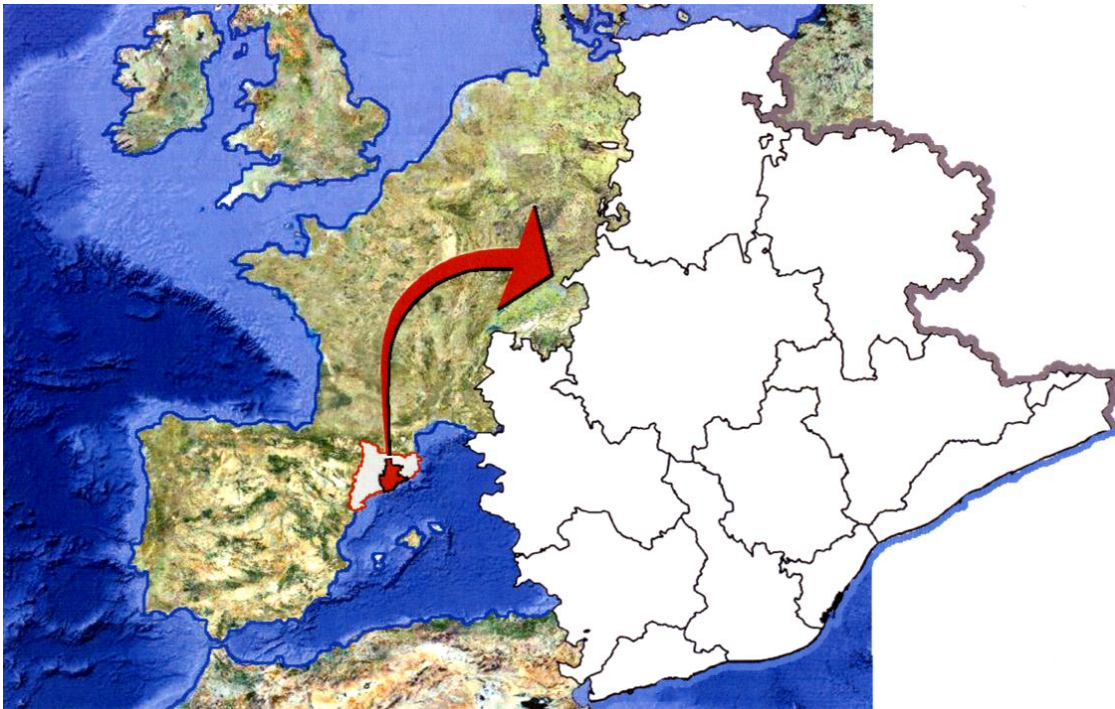
Document III

Document de synthesis

March 2011



Ajuntament
d'Abrera



PLAN OF ACTION OF SUSTAINABLE ENERGY OF THE MUNICIPALITY OF ABRERA

Date of adhesion to the Pact of Mayors: November 27, 2009

Population	11.521
Area total	19,9 km ²
Kind of town	Industrial
Generation of waste	1,40 kg/inhab.day
Consum of water	149 litres/inhab.day
Consum of energy	33.633 kWh/inhab.day



Plan of action of sustainable energy of the municipality of abrera

The Plan of Action for the Sustainable Energy adjusts to the "Pact of mayors" of the EU and follows the methodology established since the Technical Office of Climatic Change and Sustainability.

The Pact of mayors engage to the municipalities join to achieve the aims community of reduction of the broadcasts of greenhouse gases effect's by means of performances related with the energetic efficiency and the sources of renewable energies.

Equip Redactor:

Twain ingeniería & innovación, Consulting Firm

Mariona Escatllar,	Editor and energy specialist engineer
Narcís Escatllar,	Editor and energy specialist engineer
Sara Hernández,	Editor and energy specialist engineer

City Council of Abrera, Responsible for monitoring PAES

Juan Carlos Guix,	Environmental Technician
-------------------	--------------------------

Diputació de Barcelona, Work Management

Salvador Fuentes,	Technical Manager
-------------------	-------------------

Twain ingeniería & innovación, s.l.l.
c. Llacuna 162-164 - 08018 – Barcelona
t. 93.401.96.49 · f. 93.309.64.93
info@twain.es · www.twain.es



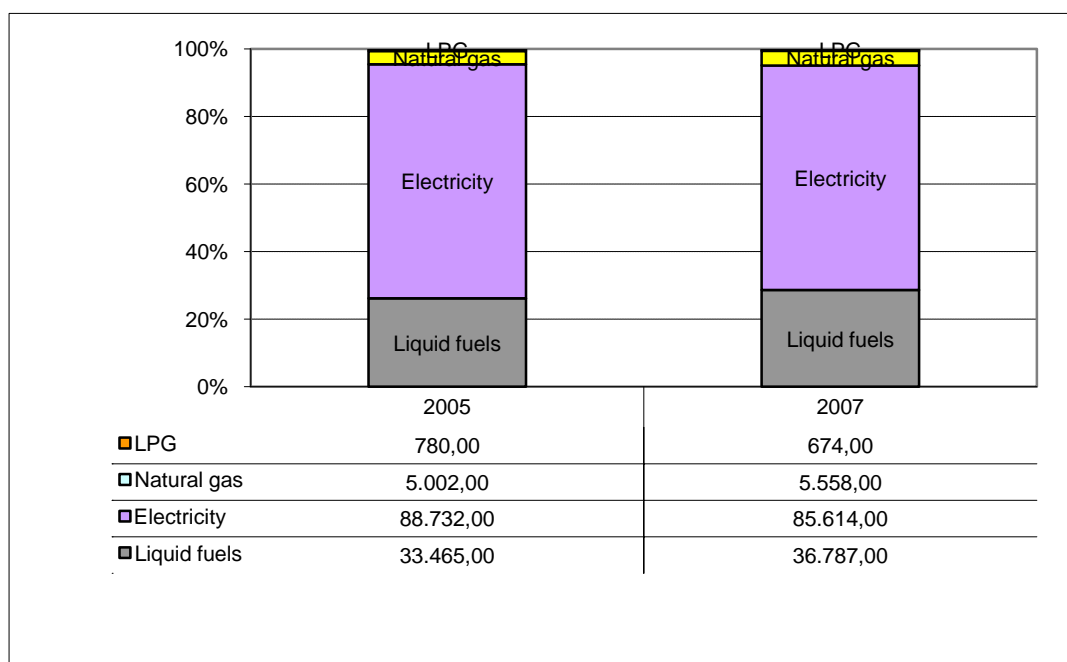
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1. EMISSIONS ASSESSMENT

1.1 General evolution of the municipality considering all sectors

1.1.1 Emissions per sources

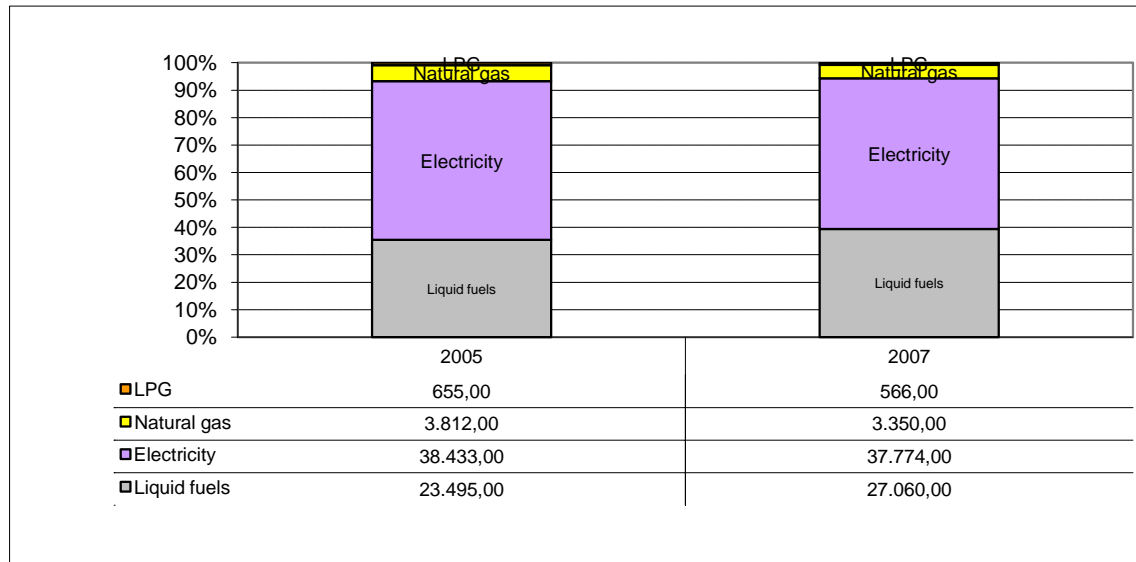


1.1.2 Municipality total emissions

	2005	2007
Total tCO₂ eq.	131.596	131.730
tCO₂ eq. /cap.	13,37	12,15

1.2 General emissions evolution in SEAP categories

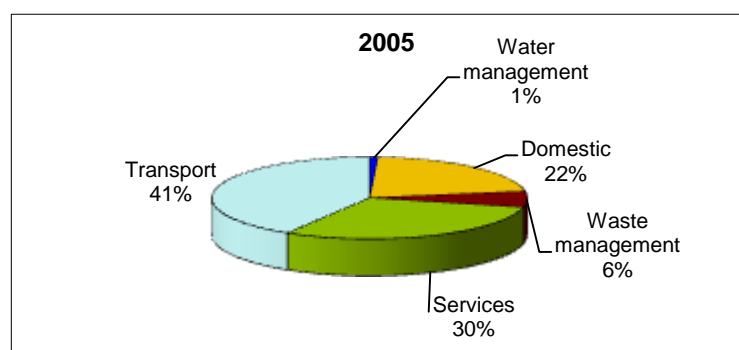
1.2.1 Emissions per source

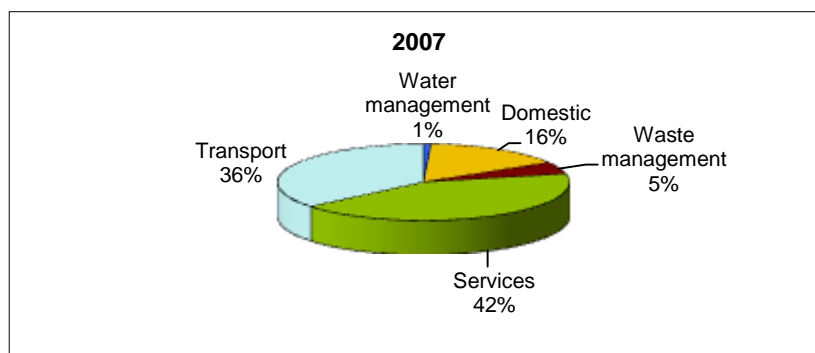


1.2.2 Total SEAP emissions

	2005	2007
Total tCO₂ eq.	70.214	73.065
tCO₂ eq. /cap.	7,14	6,74

1.2.3 SEAP emissions per sectors





1.2.4 Local energy production (%)

		2005	2007
Private sector	Renewable sources	5%	88%
	Other	---	---
Municipal public sector	Renewable sources	95%	12%
	Other		
Other	Renewable sources	---	---
	Other	---	---

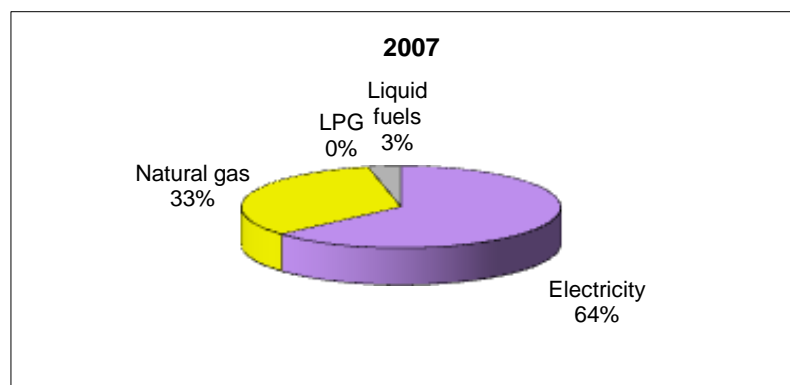
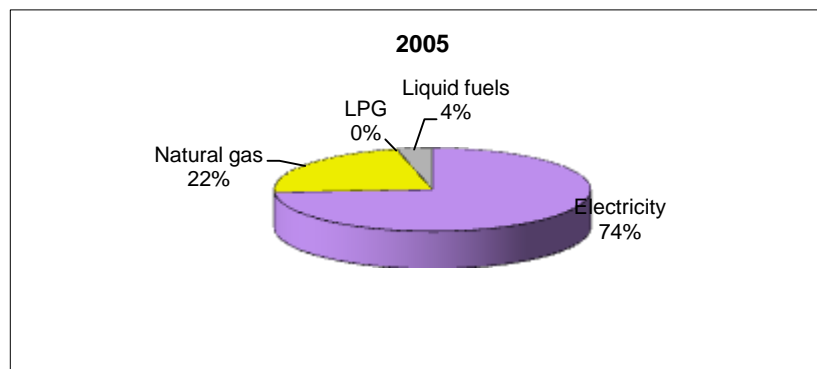
1.3 Town council emissions

1.3.1 Town council emissions

	2005	2007
Total tCO₂ eq.	1.725	1.679
tCO₂ eq. /cap.	0,18	0,15
% of the total municipality's emissions	1,31	1,27

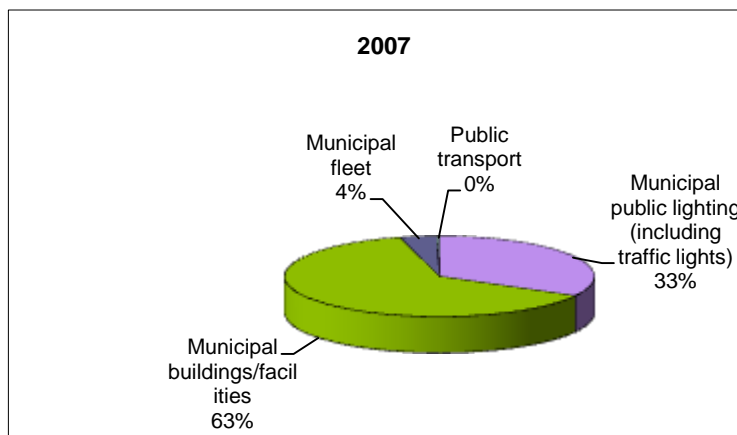
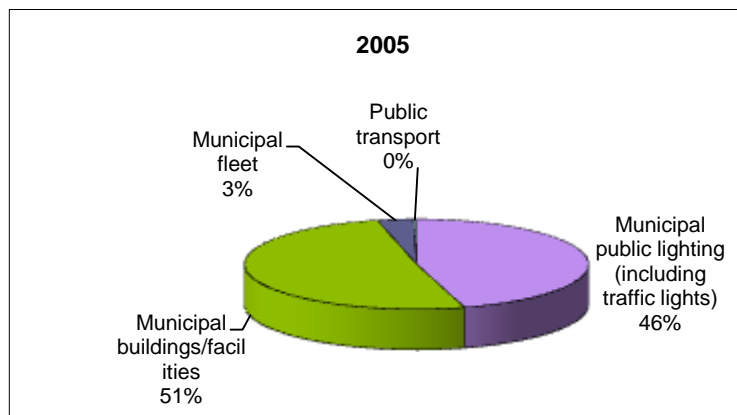
1.3.2 Town council emissions per source

	2005	2007
Electricity	1.275,26	1.318,23
Natural gas	386,33	691,62
LPG	0,00	0,00
Liquid fuels	63,09	69,14



1.3.3 Town council emissions per sectors

	2005	2007
Municipal public lighting (including traffic lights)	784,75	555,07
Municipal buildings/facilities	876,83	1.054,77
Municipal fleet	58,35	64,41
Public transport	4,74	4,74

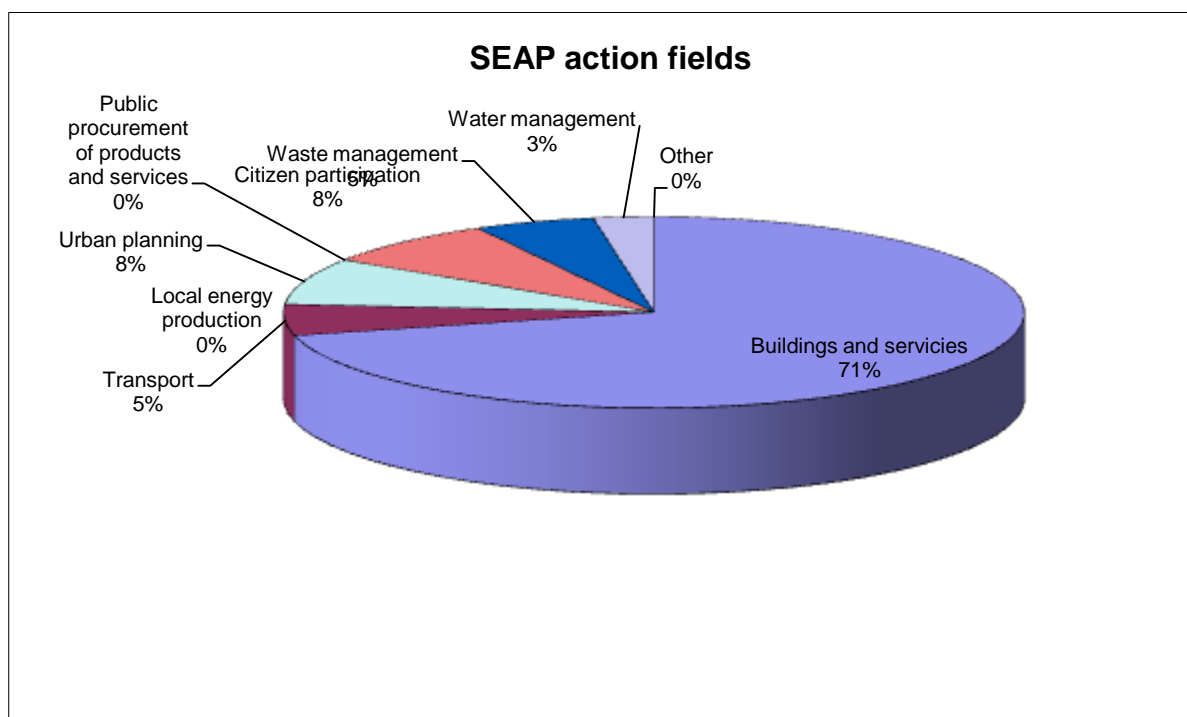


1.3.4 Highest consumers of municipal buildings/facilities (%)

Buildings/facilities	2005	2007
Aquatic Center	34,27 %	47,79 %
Market	---	20,78 %
Municipal Pavilion	41,56 %	5,93 %
Multipurpose Center	---	6,76 %
Cultural Center and Library	9,43 %	5,72 %
City Hall	5,56 %	4,76 %
Nursery	2,94 %	3,76 %
Senior Center	3,22 %	2,07 %
Building institutions	1,64 %	1,38 %
Social Services and radio	1,38 %	1,14 %

2. PLAN OF ACTION

2.1 Selection of actions fields



SEAP emissions reduction target >20% (%)	20,13
SEAP emissions reduction target (tones) (*)	14.133,50
SEAP emissions reduction target (tones/capita)	1,30
Number of actions of the SEAP	38

2.2 Key elements

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]
BUILDINGS, EQUIPMENTS/FACILITIES AND INDUSTRIES:							
Municipal buildings, equipments/facilities	12,830	8,714	14	Council Technical Arquitect	2011-2020	43.845	0,034
Tertiary (non municipal) buildings, equipments			3		2011-2020	---	2,061
Residential buildings			3		2011-2020	37.500	0,108
Municipal public lighting (including traffic lights)			6		2011-2020	---	0,379
Optional additional field(s) of action - please specify: _____			---		2011-2020	---	---
TRANSPORT:							
Municipal fleet and outsourced services fleet	3,784	2,130	1	Municipal Brigade/Local Police	2011-2020	---	1,228
Public transport			---		2011-2020	---	---
Private and commercial transport			1		2011-2020	---	0,902
Optional additional field(s) of action - please specify: _____			---		2011-2020	---	---

LOCAL ELECTRICITY PRODUCTION:							
Hydroelectrical power	---	---	---	---	---	---	---
Wind farm			---	---	---	---	---
PVs			---	---	---	---	---
CHPs			---	---	---	---	---
Optional additional field(s) of action - please specify: _____			---	---	---	---	---
LAND USE PLANNING:							
Strategic urban planning	4,456	1,607	---	Town and Country Planning Department	2011-2020	---	---
Transport / mobility planning			3		2011-2020	---	0,563
Standards for refurbishment and new development			---		2011-2020	---	---
Optional additional field(s) of action - please specify: _____			---		2011-2020	---	---
PUBLIC PROCUREMENT OF PRODUCTS AND SERVICES:							
Energy efficiency requirements/standards	---	---	---	---	---	---	---
Renewable energy requirements/standards			---	---	---	---	---
Optional additional field(s) of action - please specify: _____			---	---	---	---	---

WORKING WITH THE CITIZENS AND STAKEHOLDERS (CITIZEN PARTICIPATION)							
Advisory services	5,192	1,096	---	Town and Country Planning Department	2011-2020	---	---
Financial support and grants			2		2011-2020	---	0,521
Awareness raising and local networking			---		2011-2020	---	---
Training and education			1		2011-2020	---	0,053
Optional additional field(s) of action - please specify: _____			---		2011-2020	---	---
OTHER SECTOR(S) - Please specify: _____							
Waste management	1,387	0,584	2	Environmental Department	2011-2015	---	299,90
Water management			2	Municipal Brigade	2011-2015	---	70,48
Other actions. Please specify:			---	---	---	---	---
TOTAL	27,649	14,133	38	---	---	---	---

