



Covenant
of Mayors



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Covenant of Mayors: Framework, state of play and perspectives

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Covenant of Mayors Office | Climate Alliance

Ghent ,27 November, 2013





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The Covenant of Mayors in a nutshell





Flashback

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Priority action in
the EU Action
Plan for Energy
Efficiency

2006



Launch of the
Covenant of
Mayors initiative

2008



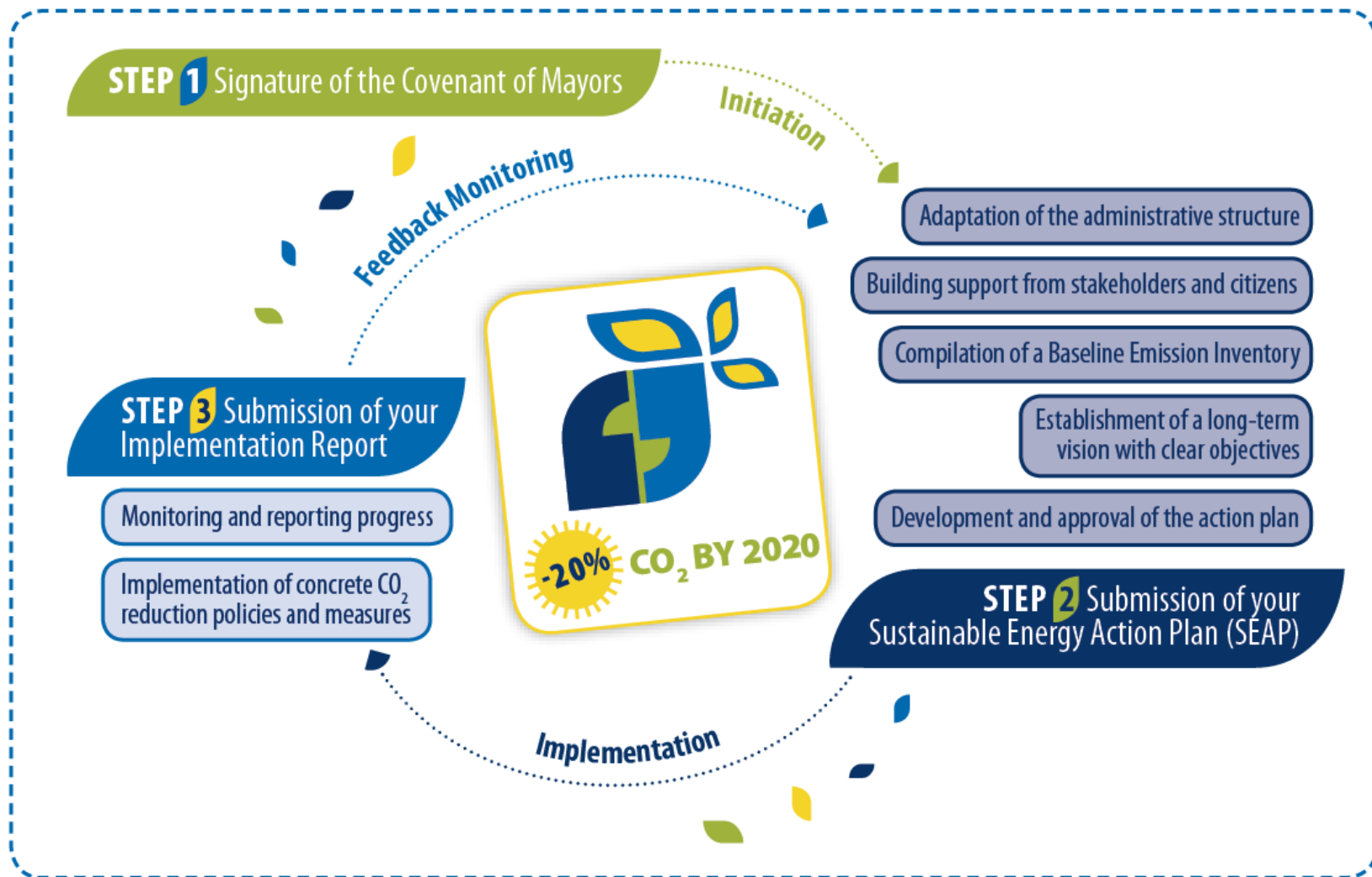
Creation of the
Covenant of
Mayors Office

2009





The Covenant Commitments





... Unprecedented success

... **5295** signatories



... **174 million** citizens

1/3 of EU population living in a city
with sustainable energy commitments

... **3184** Sustainable
Energy Action Plans adopted



... almost **30%** CO₂ emissions
reduction commitment



The methodological framework





Underlying Principles

Integrated approach

Mid/long-term planning

Stakeholders' involvement

-20% CO₂ by 2020 EU target

Fields of competence of local authorities



Flexible choice of models/tools respecting the Principles

Better fitting to local circumstances and permitting those already engaged in energy planning to come on board!

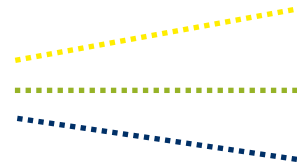


The Sustainable Energy Action Plan

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Where are you?



Where do you want to go?

How do you get there?

Baseline Emission Inventory

Analyse the current status in terms of energy use and associated CO₂ emissions.

Actions

Define a set of comprehensive actions with estimated impacts.

Vision, Objectives, Target

Agree on a vision, objectives and CO₂ emissions reduction target for 2020.





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The common reporting framework





The SEAP & Monitoring Template

- Standard **reporting framework** for Covenant Signatories;
- **Summarises** the key data of SEAPs and monitoring reports;
- Allows to **analyse the data** in a structured and systematic manner;
- Ensures the generation of aggregated **statistics**¹.

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	Geothermal		
BUILDINGS, EQUIPMENT / FACILITIES & INDUSTRIES																	
Municipal buildings, equipment/facilities	115844	0	210214	0	12990	47795	0	0	0	0	0	0	0	113	0	0	386956
Tertiary (non municipal) buildings, equipment/facilities	690854	0	1189323	70772	138311	54575	0	0	0	0	0	0	32	0	0	0	2143868
Residential buildings	670036	0	2611078	11730	0	357202	0	0	0	0	0	0	3736	0	0	0	3653783
Public lighting	37800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37800
Industries (excluding industries involved in the EU Emission trading scheme - ETS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1514534	0	4010615	82502	151301	459572	0	0	0	0	0	0	3768	113	0	0	6222407
TRANSPORT																	
Municipal fleet	0	0	0	0	0	30676	6618	0	0	0	0	0	0	0	0	0	37294
Public transport	14222	0	179	0	0	96603	269	0	0	0	0	0	0	0	0	0	111273
Private and commercial transport	0	0	0	0	0	200000	1505628	0	0	0	0	0	0	0	0	0	1705628
Subtotal	14222	0	179	0	0	327279	1512515	0	0	0	0	0	0	0	0	0	1854195
TOTAL	1528756	0	4010794	82502	151301	786851	1512515	0	0	0	0	0	3768	113	0	0	8076602

¹ e.g. JRC report [‘The Covenant of Mayors in Figures 5-Year Assessment’](#) (2013); [Covenant Indicators](#) (2013).



What is reported?

- **Overall strategy** (target, vision, staff, budget, etc.);
- **Final energy consumption** by sector and by energy carrier;
- **CO₂ emissions factors** adopted for each energy carrier;
- **Local energy production** (if applicable);
- **CO₂ emissions** by sector and by energy carrier;
- **Key actions** planned and implemented (estimates on implementation cost, energy savings, renewable energy production and CO₂ emissions reduction by 2020).





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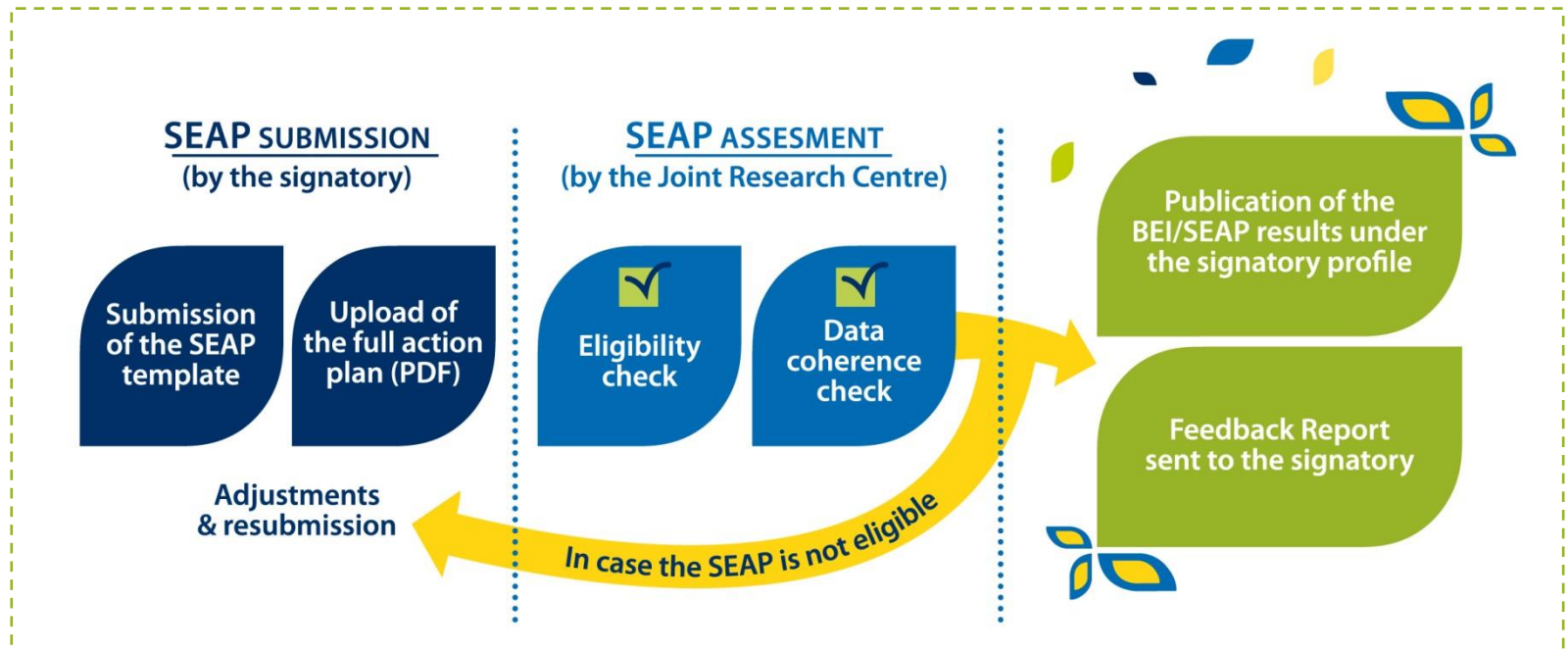
Outcomes of the reporting task





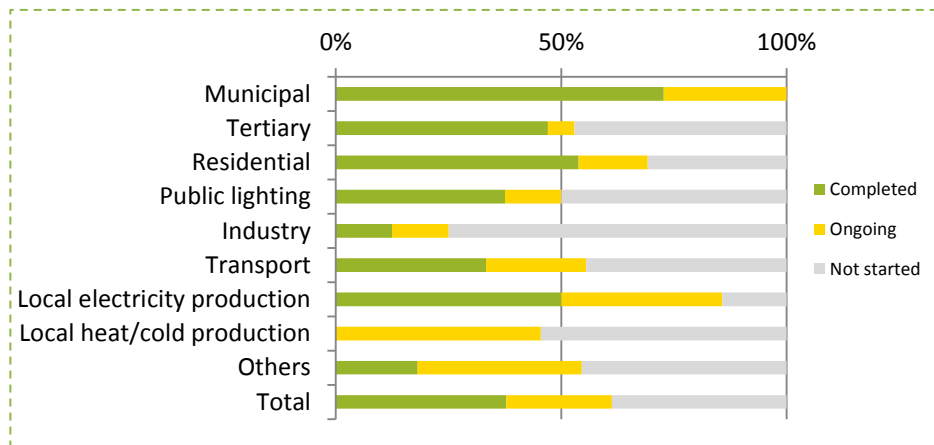
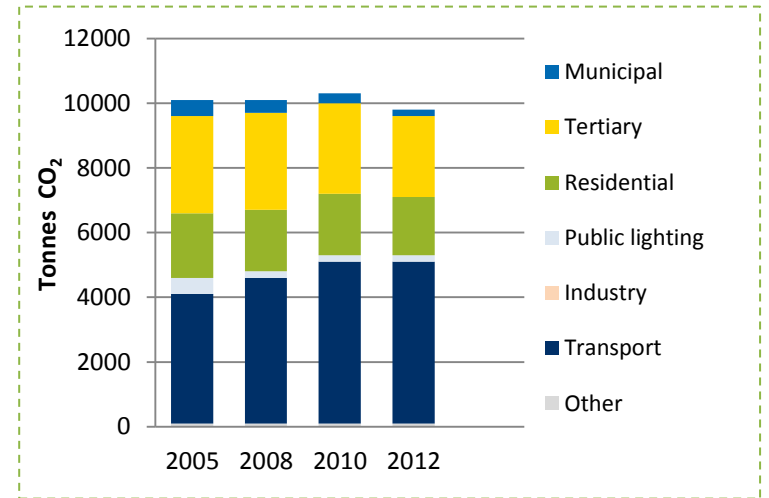
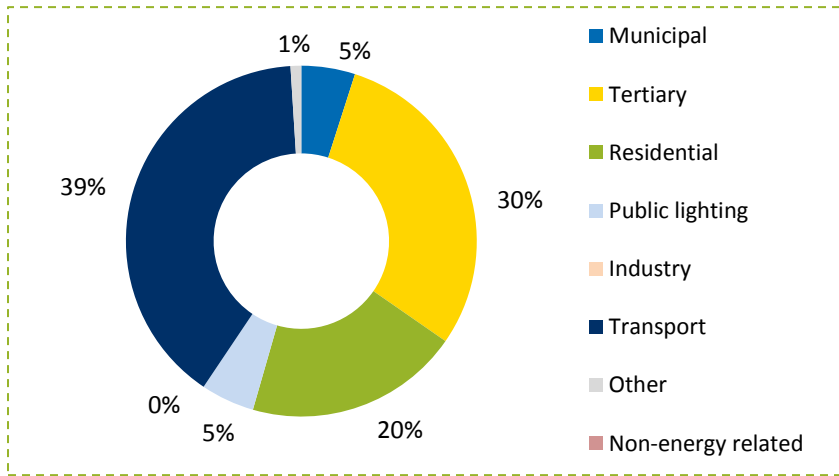
Analysis of Sustainable Energy Action Plans

- Ensures the compliance of SEAPs with **Covenant Key Principles**;
- Provides **feedback** to signatories.





Covenant Online Catalogue SEAPs and monitoring progress



**Visibility and
transparency!**



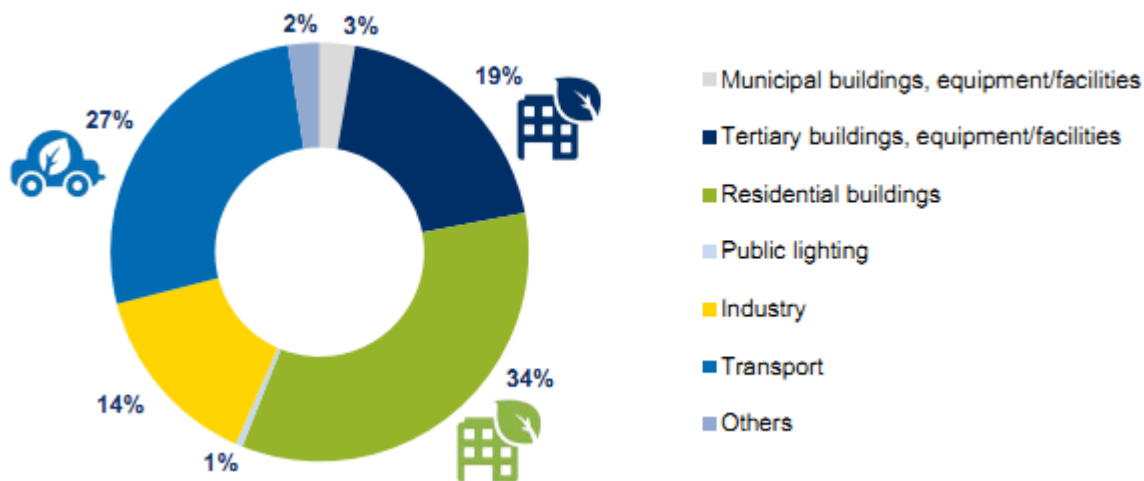
Covenant in Figures



CO₂ emissions per capita

Emission factors adopted by signatories	tonnes CO ₂ eq./capita
IPCC	7
Life Cycle Assessment	12

Breakdown of CO₂ emissions by sector



CO₂ emissions reduction target by 2020

CO ₂ emissions reduction target	
29%	113 Mt CO ₂ eq.





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The Monitoring Framework





Monitoring Requirements



HOW?

Submission of online monitoring template.

WHAT?

	Action Reporting	Full Reporting
I – My Overall Strategy	✓	✓
II – My Emission Inventories	x	✓
III – My Sustainable Energy Action Plan	✓	✓

WHEN?

Action Reporting	Full Reporting
At least every two years	At least every four years

Reference year: SEAP submission





Monitoring Framework

I – My Overall Strategy



- Point out any changes to the initial strategy
- Specify the money spent so far in SEAP implementation

		Budget spent so far (€)	
<input checked="" type="checkbox"/>	Local authority	40000	<u>Investment</u>
		5000	<u>Non-investment</u>
<input checked="" type="checkbox"/>	Other actors	25000	<u>Investment</u>
		0	<u>Non-investment</u>
		70000	Total
Time period:		2008	2013
		6 years	

- Identify and rate the main barriers encountered

	<u>All sectors</u>	<u>Municipal</u>	<u>Tertiary</u>	<u>Residential</u>	<u>Transport</u>
Limited financial sources	Fair				
Absence of / weak regulatory framework	Little				
Lack of technical expertise					
Lack of support from stakeholders	Little				
Lack of political support at other admin. levels	Fair				
Changes in the local political priorities	Strong				
Incompatibility with national policy orientations	Not applicable				
Immature or high cost technologies					





Monitoring Framework II – My Emission Inventories



- Include a recent Monitoring Emission Inventory

Please select the sectors included in your emission inventory:

- Buildings, equipment facilities and industries
 - Municipal buildings, equipment/facilities
 - Tertiary (non municipal) buildings, equipment/facilities
 - Residential buildings
 - Public lighting
 - Industry
 - Industry Non-ETS
 - Industry ETS (not recommended)
- Transport
 - Municipal fleet
 - Public transport
 - Private and commercial transport
- Agriculture, Forestry, Fisheries



Note that CO₂ emissions calculation approach and reporting units are the same across emission inventories.

Sector	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	Geothermal			
BUILDINGS, EQUIPMENT/FACILITIES AND INDUS																		
Municipal buildings, equipment/facilities																		0
Tertiary (non municipal) buildings, equipment/facilities																		0
Residential buildings																		0
Public lighting																		0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRANSPORT																		
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Monitoring Framework

III – My SEAP



- Provide the implementation status of the actions defined in the SEAP (completed, ongoing, ...)
- Revise/update the estimates on the impacts of the actions by 2020

Key Actions	Area of intervention	Policy instrument	Origin of the action	Responsible body	Implementation timeframe		Status of implementation	Estimated implementation cost	Implementation cost	Estimates in 2020		
					Start	End				Energy savings	Renewable energy production	CO ₂ reduction
MUNICIPAL BUILDINGS, EQUIPMENT/FACILITIES												
<i>[Name of the action]</i>												
<i>Estimated reduction not associated with any reported actions</i>												
TERTIARY BUILDINGS, EQUIPMENT/FACILITIES												
<i>[Name of the action]</i>												
<i>Estimated reduction not associated with any reported actions</i>												

- Highlight at least three implemented actions as Benchmarks of Excellence

Key energy and economic figures

CO2 reduction* t CO2 eq./a

Energy savings* MWh/a

Renewable energy produced MWh/a

Implementation cost* EUR (€)

Jobs created (number)

Life expectancy of the action years

Financial savings EUR (€)

Simple payback period EUR (€)/a

Return on Investment (ROI) % /a

Other figures unit...



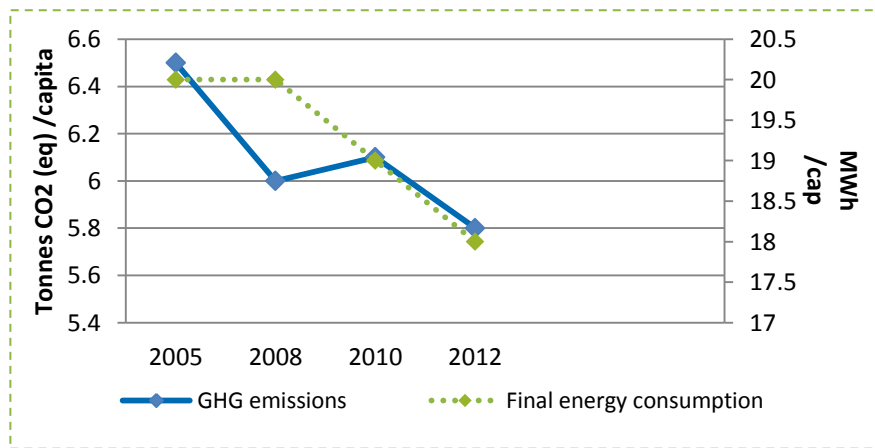
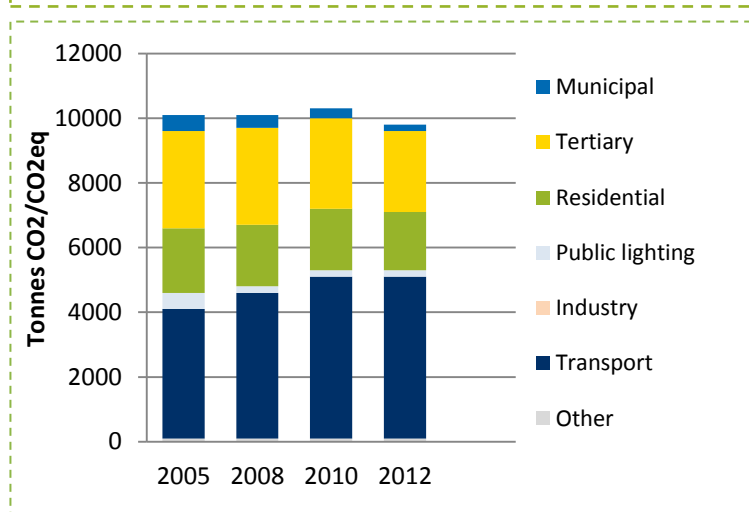
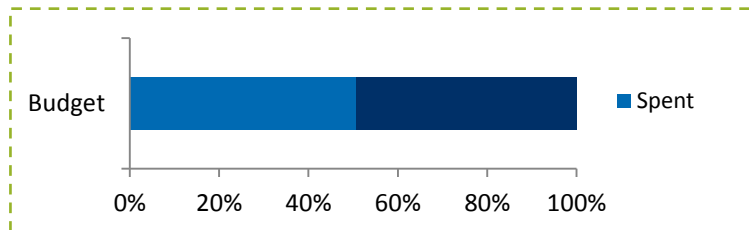
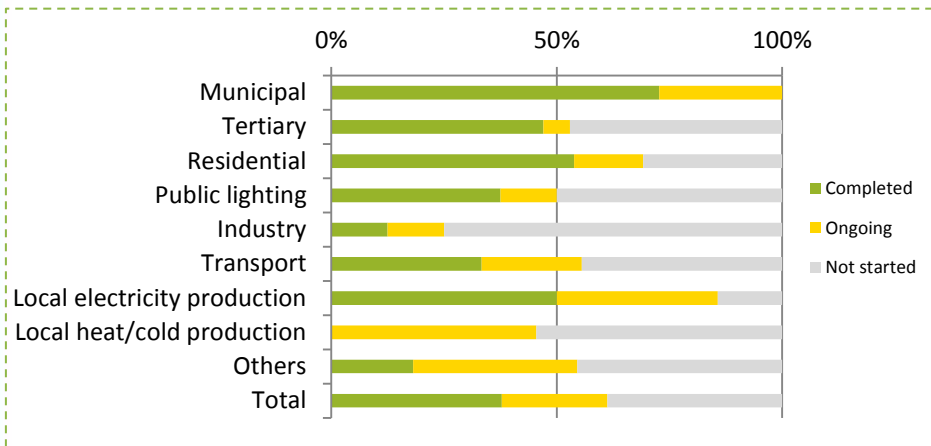


Monitoring Framework

Synthesis report



- Analyse status and progress in a set of graphical representations





Covenant Online Catalogue

Best practices database

BEÁGUEDA - THE ELECTRICAL BICYCLE OF ÁGUEDA FOR FREE PUBLIC USE



Sector: Land use planning
Implementation timeframe: 2010 - 2020
Responsible body: CMÁGueda/Private

Description:

BeÁgueda is based on SD commitments (CoM/LA21) and implemented in phases so that corresponds to citizens mobility needs: is assessed and re-evaluated based on surveys, usage and evaluation by end-users. It represents an investment in 10 e-bikes, parking and securing stands, a central station (microgeneration panel), monitoring/management system that communicates through WIMAX.

beÁgueda has already 160 users/more than 4000 usages/20000km in e-bike. Despite the early stage, the project was awarded by the Energy Cities as an innovative initiative that promotes CO2 reduction. For the future, an innovative tracking /monitoring system is being developed by BikeEmotion (UAveiro, private companies), allowing to track, in real time, the e-bike. The APP, allows any user with Smartphone or technology able to go on-line to find each e-bike is available, where it is, the charge, and book it

Financing sources: Local Authority's own resources, EU Funds & Programmes, Public-Private Partnerships

[External link](#)

[Video](#)

KEY FIGURES

- CO₂ reduction : 31 t CO₂ eq/a
- Energy savings: 9 MWh/a
- Renewable energy produced: 1 MWh/a
- Implementation cost: 22000 €
- In 2 years travelled: 20000 km

LOW ENERGY RENOVATION AT KATJAS GATA 119, BACKA RÖD, GÖTEBORG



Sector: Buildings, equipment / facilities & industries
Implementation timeframe: 2009 - 2009
Responsible body: Förvaltnings AB Framtiden (housingcompany)

Description:

Katjas Gata 119, in Backa Röd, is a 4-storey residential building with 16 rental apartments. It was built in 1971 as a part of the Swedish "million program".

The objective with the energy renovation at Katjas Gata 119 was to reduce the energy use from 178 kWh/m² (Atemp) to approx. 60 kWh/m² and to give us knowledge about technical and economical problems and solutions and experiences from the clients point of view.

After the renovation the building energy consumption is between 50-60 kWh/m² Atemp, year 2010-2012, which meets the objectives. The energy renovation resulted in better indoor climate compare to a normal renovation and the client are very satisfied with their living. The project didn't meet the city's demand on return of investment. To get a cost-effective project the building must be in need of renovation and preferably create more lettable area while renovating.

Financing sources: Local Authority's own resources

[External link](#)

KEY FIGURES

- CO₂ reduction : 16 t CO₂a
- Energy savings: 160 MWh/a



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Perspectives





What to expect 2014-2016?

- **Focus on implementation**
 - How to ensure financing for the Sustainable Energy Action Plans?
 - How to provide better targeted support for the Covenant signatories throughout Europe?
- **National strategies to identify support needs and all relevant actors throughout the EU**



Enhanced SEAPs: expectations

- Vision / ambition level / target setting
- Established structures – or more importantly the process adopted
 - For developing strategies - and
 - For implementing them
- Combining economic aspects and linking budgeting into energy planning
- Monitoring progress



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THANK YOU!

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