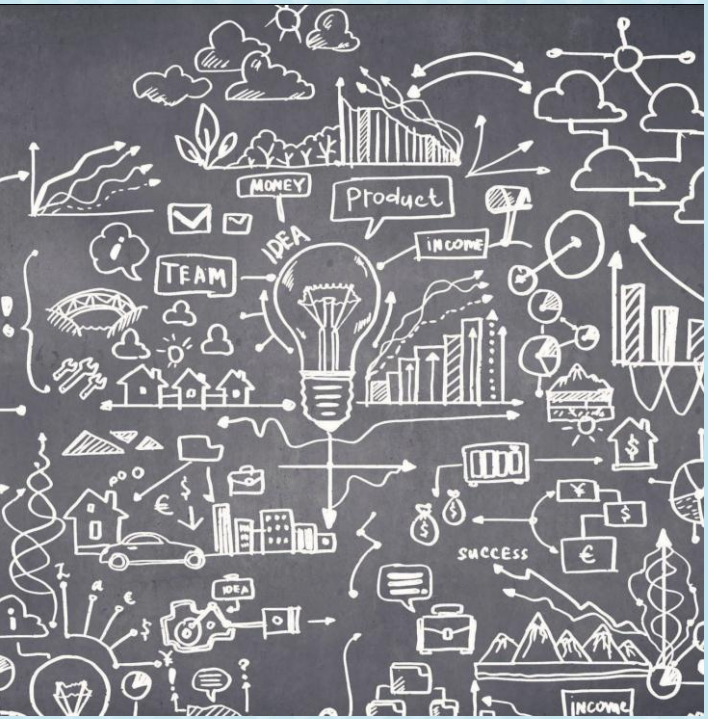
MAYORS IN ACTION
FOR A SUSTAINABLE FUTURE



Collecting data and reporting of SEAP implementation for small cities

Carme Melcion

Diputació de Barcelona

Zagreb, March 2016

Co-funded by the Intelligent Energy Europe Programme of the European Union

MAYORS IN ACTION
FOR A SUSTAINABLE FUTURE

1. Data collection

2. Barriers to obtain data

3. Overcoming barriers

4. Actions: status

5. Conclusions

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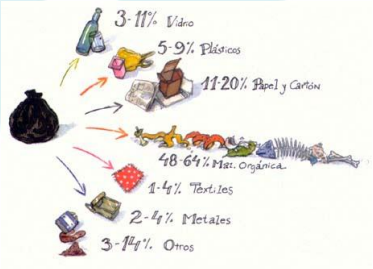
Data collection

At municipal scale, by sources and sectors:

- Energy consumption
- Waste generation
- Water consumption
- Local Electricity Production



Data collection

From the municipality (related to services they provide)

- Energy consumption by sources
- Local Electricity Production

From:

- Municipal buildings and facilities,
- Public lighting
- Municipal fleet
- Public transport

Data collection

Sources may be different depending on the country

Information from municipality may come from energy bills!

Barriers to obtain data

Municipal scale:

- Depends on each country, on how this information is gathered.
  - Some information might not be available at the municipal scale → Estimations to reach the municipal level.
  - Difficulties to obtain recent data.

Barriers to obtain data

Within the municipality

- No energy accounting systems implemented:
- Different departments involved or few resources to manage information
- Some services might be outsourced

Overcoming barriers

Data at municipal scale

Important role of the coordinator

- Centralized data collection for all municipalities
- Establish common estimation calculations and emission factors
- Delivering information of each municipality in an easy and friendly way
- Delivering emission inventory
- Establish specific tools for that

Overcoming barriers

Data from the municipality

- Promotion of energy accounting systems: Coordination with energy accounting software providers.
- Establish an easy and friendly way to collect data through specific tools
- **Local Energy Agencies are essential: joint energy accounting services and management!**

MAYORS IN ACTION

FOR A SUSTAINABLE FUTURE

DADES AJUNTAMENT DE **el Brull**

Persona de contacte

Càrrec

Telèfon

Adreça electrònica

Data collection. To fill in by the municipality

0_INSTRUCCIONS PER OMPLIR LES DADES

0 EQUIPAMENT I INSTAL·LACIONS MUNICIPALS

0 ENLLUMENAT PÚBLIC I SEMÀFORS

0 FLOTA DE VEHICLES (PRÒPIA I EXTERNALITZADA) I TRANSPORT PÚBLIC MUNICIPAL

1_PRESA DE DADES

1 EQUIPAMENT I INSTAL·LACIONS MUNICIPALS

1 ENLLUMENAT PÚBLIC I SEMÀFORS

1 FLOTA DE VEHICLES (PRÒPIA I EXTERNALITZADA) I TRANSPORT PÚBLIC MUNICIPAL

2_RESULTATS

2 EQUIPAMENT I INSTAL·LACIONS MUNICIPA

2 ENLLUMENAT PÚBLIC I SEMÀFORS

2 FLOTA DE VEHICLES (PRÒPIA I EXTERNALIT TRANSPORT PÚBLIC MUNICIPAL

_GRÀFICS

EQUIPAMENT I INSTAL·LACIONS MUNICIPALS

ENLLUMENAT PÚBLIC I SEMÀFORS

LOTA DE VEHICLES (PRÒPIA I EXTERNALITZADA) I ANSPORT PÚBLIC MUNICIPAL

4_TAULES RESUM

4 TAULA KWH

4 TAULA MWH

4 TAULA tCO2

4 TAULA EUROS (€)

4 GRÀFICS generals

FACTORS DE CONVERSIÓ

The rest are results: tables, graphics, etc…

PORTADA | INICI | 0_EQUIPAMENTS | 0_ENLLUMENAT I SEMÀFORS | 0_FLOTA | 1_EQUIP_Dades | 1_ENLL i SEM_Dades | 1_FLOTA_Dades

NUM

EDIFICIS I INSTAL·LACIONS MUNICIPALS

Índex

EQUIPAMENTS I INSTAL·LACIONS

Gas Natural | Gasoil C | Propà | Butà | Biomassa | Solar Tèrmica | Geotèrmica | Fotovoltaica

Consum energètic i cost (€) / any

Retorn Índex

GAS NATURAL

AMT	Adquirició municipal d'electricitat ecològica certificada (kWh)	CONSUM ELECTRICITAT (kWh)	COST (€)	Nombre equipaments Electricitat (OPCIONAL)	Superfície equipaments Electricitat (m²) (OPCIONAL)	[illegible]	UNITATS (kWh, m³)	COST (€)	Nombre equipaments Gas Natural (OPCIONAL)	Superfície equipaments Gas Natural (m²) (OPCIONAL)	CONSUM GASOIL C	UNITATS (kWh, litres, Kg, tones)
2005												
2006												
2007												
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
2018												
2019												
2020												

Electricity consumption

Consumption

Cost €

Units to choose

Action status

It is the municipality who must answer

- As a Coordinator we provide them with specific excel templates, so once they have filled the status of the actions, a simple reports can be done automatically.
- Specific workshops to fill in the template and help municipalities with their monitoring reports
- Local Energy Agencies have a key role too! Providing data and implementing some of the actions

Conclusions

- Covenant Coordinators have a key role: collecting data, establishing common criteria, optimizing data collection.
- Help municipalities gathering information at municipal scale and delivering emission inventories
- Obtaining data takes time, It is important no to forget that!
- Energy accounting systems in the municipalities is essential

  Knowledge = Management = Control = Savings

Conclusions

- Local Energy Agencies are essential: for small municipalities bundling energy accounting, management and measurement is essential.
- Need to have specific training for LG
- Specific tools are welcomed by LG in order to make the monitoring easier and to produce monitoring reports
- Benchmarking. Common basic parameters should be established, as well as common criteria

THANK YOU

Contacts:

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