



Collaborating in energy data exchange

DATA EXCHANGE COLLABORATION MODELS

EUROPEAN LEGISLATION on DATA SHARING

Promoting Sustainable Energy - Data Sharing quality to support local action

Date: 19.11.2015

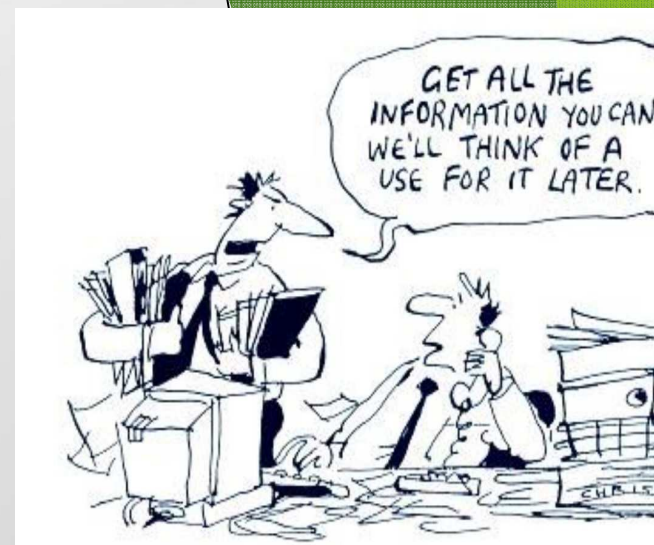
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Current situation

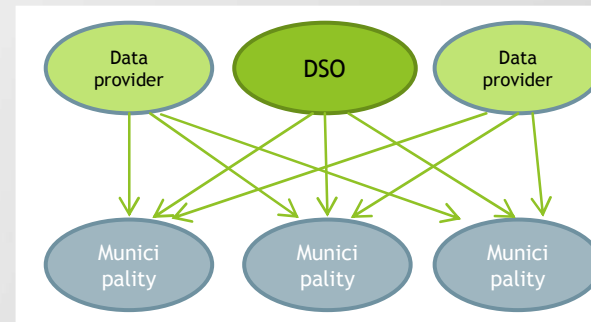
- ▶ Public authorities facing **difficulties in accessing local and accurate energy data for SEAPs**
 - *need to interface with multiple data providers*
- ▶ **Barriers to Regional & Local territorial data exchange:**
 - ▶ Data ownership, commercial sensitivity, data accuracy, data access
 - ▶ **Lack of energy data management skills within public authorities**
- ▶ **New paradigm for energy companies (DSOs, TSOs, ESCOs,...)**
 - ▶ Energy market liberalisation
 - ▶ **Develop strong commercial relationship with local public authorities**
 - ▶ Propose new services
 - ▶ Need to optimize their infrastructure investment
 - ▶ Comply with regulatory framework



Win-Win collaboration models

between public authorities and energy data providers

Bi-lateral agreements

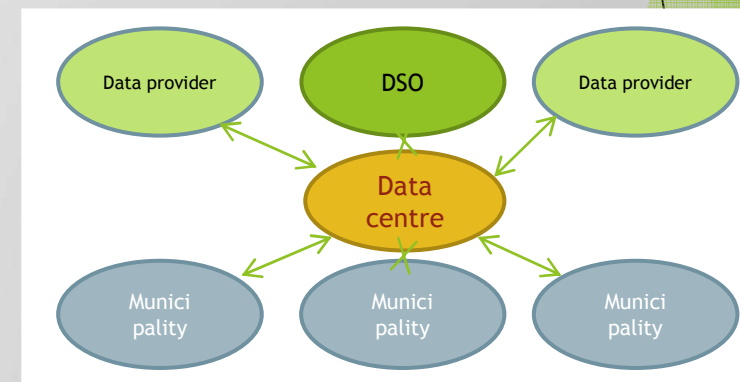


Multi-lateral agreements

third party: regional data centre or « observatory »

gathering and processing data from several sources

providing « one-stop shop services »



DATA4ACTION - Main goals



- ▶ Improve public authorities access to local and accurate energy data for Sustainable Energy Action Plans
- ▶ Foster advanced collaboration models in energy data exchange between public authorities and energy data providers for SEAPS at regional and local levels

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Regional energy and GHG emissions data centres

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European presence

More than 30 regional energy and GHG emissions data centres across Europe

In DATA4ACTION:

7 New regional data centres

In Bulgaria, Czech, Greece, Ireland, Italy, Romania, UK regions

5 Existing ones being further developed

In France, Italy, Spain, Sweden

Existing European network: **ENERGee Watch**

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What services do they offer?

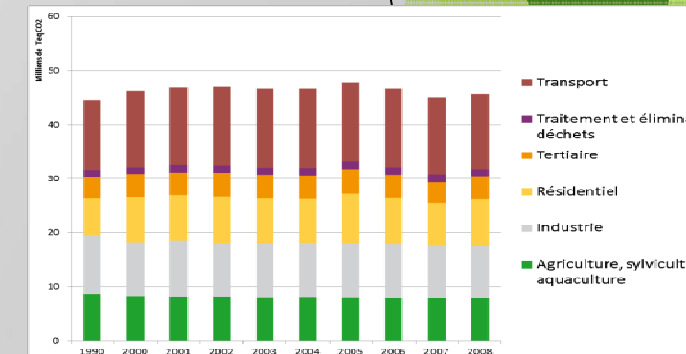
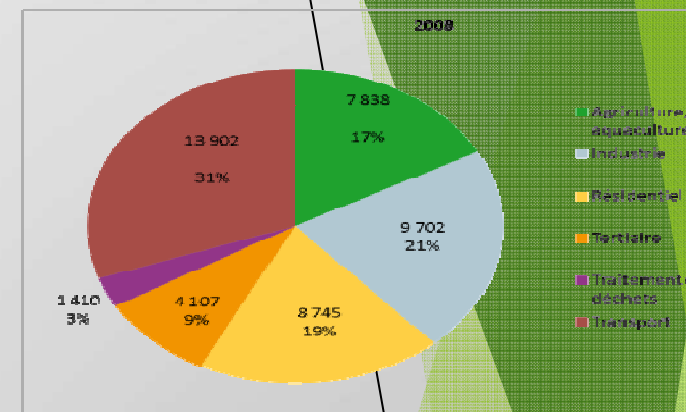
► Provide energy and GHG emissions data to public authorities for SEAPs planning, implementation and monitoring:

- *Baseline Emissions Inventory*
- *Monitoring Emissions Inventory*
- *Progress Based Indicators*

► Set up partnerships with multiple energy data providers

- *Provide technical data management services:*
 - *Facilitate data access, processing, modelling, data accuracy,*
 - *Use methodologies for accounting GHG emissions based on International standards*

► Communicate local data to public authorities and general public - [web site](#)



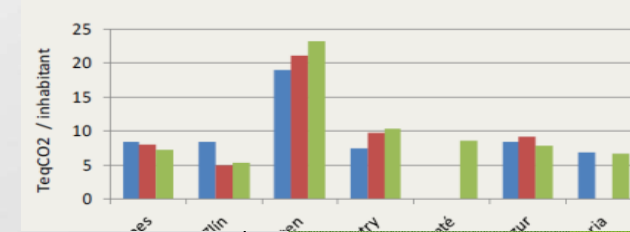
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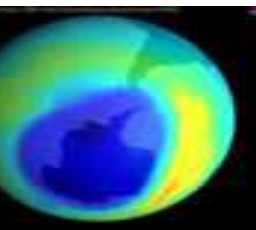


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How do they operate?

- Structures governed by a local consortium involving several data providers and public authorities
- Supported by regional level public authorities (CoM territorial coordinators)
- Often integrated within existing regional organizations (energy agencies, public authority, combined with existing monitoring organizations such as air quality)
- Technical skills in sustainable energy planning, data access and processing, partnership management
- Provide territorial data and services to public authorities free of charge





Benefits to Local Authorities

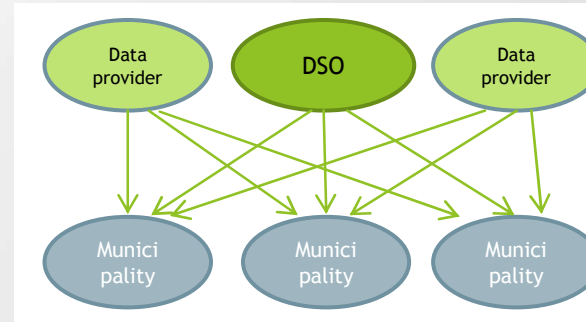
- *Provide « one-stop shop » services to public authorities*
- *Provide data management skills at regional and local levels*
- *Mobilize key regional and local stakeholders in a joint initiative (RA, LA, Energy utility companies,...)*
- *Ensure coherence of local plans with regional/national objectives and plans*



Other collaboration models

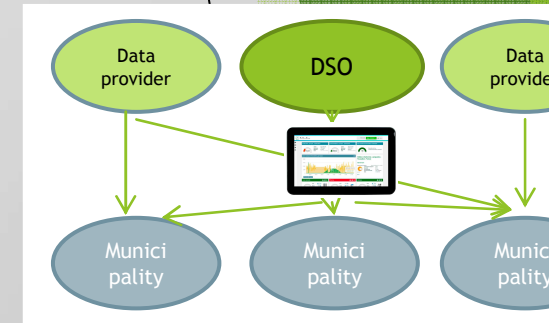
(from Meshartility.eu)

Bilateral agreements



Data provision by energy data providers to multiple LAs

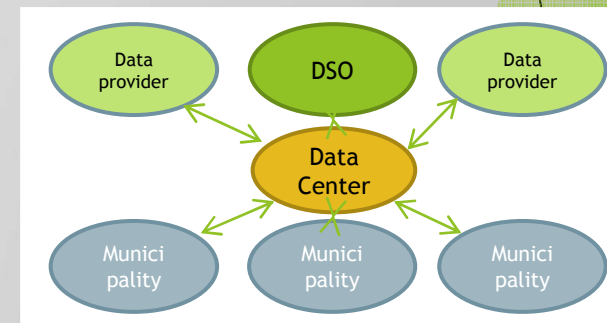
e.g: providing improved data access services through advanced IT-smart metering solutions



Central data collection through legislation

(usually by a State agency)

e.g: linked to transposition of Energy Efficiency Directive



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Collaboration models complementary

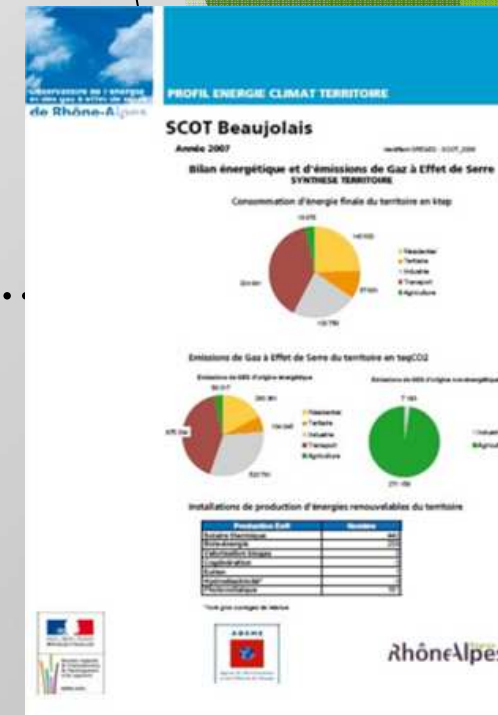


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Success factors



- ▶ Strong involvement of DSOs through win-win scenarii with public authorities
- ▶ Regional and local Institutional support
- ▶ Good governance principles : Transparency, Participation, Accountability, ..
- ▶ Supported by EU and National regulatory frameworks





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EU regulatory framework Energy data sharing

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Existing EU regulatory framework

- ▶ Directives referring to sustainable energy planning at sub-national levels
 - ▶ Directive 2012/27/EU on energy efficiency
 - ▶ Member states to “encourage” action at reg. & local level on...
 - ▶ Exemplary role of public bodies for buildings
 - ▶ Directive 2009/28/EC on renewable energy
 - ▶ National authorities to cooperate with local and regional authorities as part of NAP
 - ▶ Member states to “recommend” local & reg. bodies to plan and use RES in urban areas

Existing EU regulatory framework

Obligations to provide access to the final customer to consumption data

- ▶ Directive 2012/27/EU on energy efficiency
 - ▶ Articles 10,11,12 ensure that **final customers receive their bills and billing information**
- ▶ Directive 2010/31/EU on energy performance of buildings
 - ▶ **Energy performance certificates**
- ▶ Directives 2009/72/EU and 73 on internal market in electricity and gas
 - ▶ **End customers are properly informed of actual electricity consumption and costs frequently enough.**

Obligations to collect energy data at Member State level

- ▶ Directive 2012/27/EU on energy efficiency
- ▶ ..

Existing EU regulatory framework

Regulations on data protection for personal data but not applying to aggregated data

- ▶ Directive 2002/58 on privacy and electronic communications
- ▶ Directive [95/46/EC](#) on the protection of personal data

Obligations for Public access to environmental data

- ▶ Directive 2007/2/EU on Infrastructure for Spatial Information in the European Community
 - ▶ “MS to adopt measures for sharing of spatial data sets and services between its public authorities..”

EU & National regulations - what is missing?

Sustainable energy regulations need to facilitate access to energy data to sub-national public authorities:

- ▶ Member State, National legislation, to recognize and require data processing for sustainable energy planning at sub-national levels
- ▶ Member State to provide clarity on **Rights and Obligations for DSOs** to provide territorial energy data to public authorities for sustainable energy planning
- ▶ **MS to take measures and encourage DSOs and other data providers** (such as energy efficiency obligated parties) to provide **energy segregated data** (in a suitable format according to sustainable energy planning)

EU & National regulations - what is missing?

- ▶ MS to promote and support **data sharing best practices for sustainable energy planning**. These measures could include for instance transparency rules in reporting, standardizing data exchange formats, financially supporting voluntary data sharing initiatives.
- ▶ MS to clarify confidentiality rules for aggregated data
- ▶ Member States to establish within their energy efficiency obligation schemes, incentive mechanisms for energy data providers

Recommendations for EU and National decision makers to be published in Dec. :
www.data4action.eu

DATACTION

Thank you for your attention

► More information

www.data4action.eu

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