



Collaborating in energy data exchange

EUSALP experts' workshop EUSALP Energy Observatory

Experience with energy data sharing: the Data4Action project

Promoting Sustainable Energy - Data Sharing quality to support local action

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Silvio DE NIGRIS- Piemonte Region



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

Data4Action objectives and partners

- ▶ **Improve** public authorities' access to energy data for a better design and monitoring of SEAPs;
- ▶ **Mobilize** public authorities and energy data providers in a win-win partnership;
- ▶ **Facilitate** their collaboration through establishing or further developing regional energy Observatories;
- ▶ **Demonstrate** energy data exchange collaboration models 'in action' in the twelve European partner regions;
- ▶ **Support** knowledge transfer and replication in other European regions.



Rhône-Alpénergie-Environnement - FR



Kent County Council - UK



Energetická Agentura Zlínského Kraje - CZ



Infrastrutture Recupero Energia IRE SpA - IT



Conseil Régional Nord-Pas de Calais - FR



IHOBE/Ente Vasco de la Energia - ES



Provincia di Torino - Regione Piemonte - IT



Energy Agency of Plovdiv - BG



Norrbottnens Energikontor - SE



Carlow Kilkenny Energy Agency - IE



Energy Environment Local Development SA - EL



Agentia Locala a Energiei Alba - RO



FEDARENE - BE



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Energy data sharing - Key players

Data Providers

(Energy companies, TSOs, DSOs, ESCOs,...)



Public authorities are important customers. I want to support them, though protecting my competitive edge.

Energy planning facilitators

(Energy agency, Public authority, Experts,...)

I want to provide long term support in energy planning to public authorities

I need robust territorial aggregated energy data for effective sustainable energy planning

Regional & Local public authorities



DATAACTION



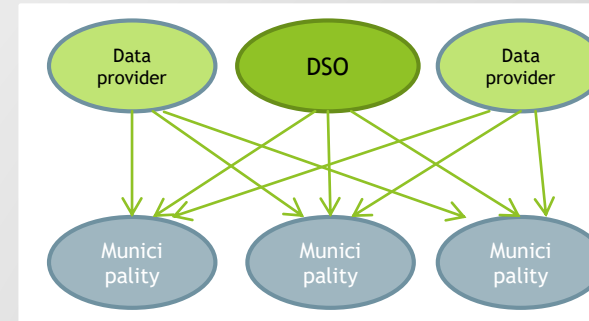
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Win-Win collaboration models



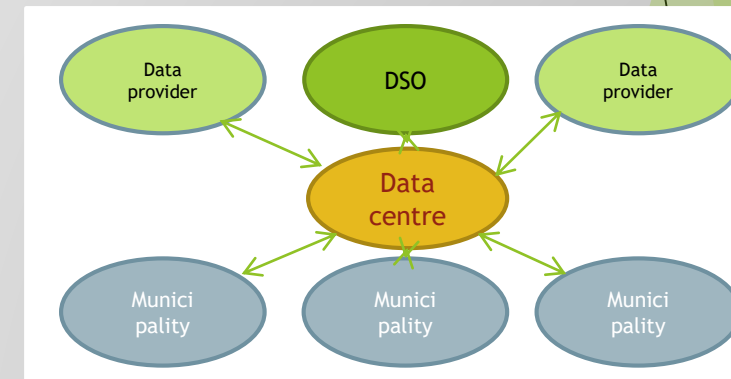
► Between public authorities and energy data providers

► Bi-lateral agreements



► Multi-lateral agreements

3rd party: **regional data centre** or « **observatory** »
gathering and processing data from several sources
providing « **one-stop shop services** »



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European presence

More than 30 regional energy and GHG emissions data centres or observatories accross Europe



In DATA4ACTION:

7 New regional data centres

In Bulgaria (Plovdiv), Czech (Zlin region), Greece, Ireland (Carlow/Kilkenny), Italy (Piemonte), Romania (Alba), UK (Kent)

5 Existing ones being further developed

In France (Auvergne-Rhône-Alpes and Hauts de France), Italy (Liguria), Spain (Basque country), Sweden (Norrbotten)

Existing European network: **ENERGee Watch**

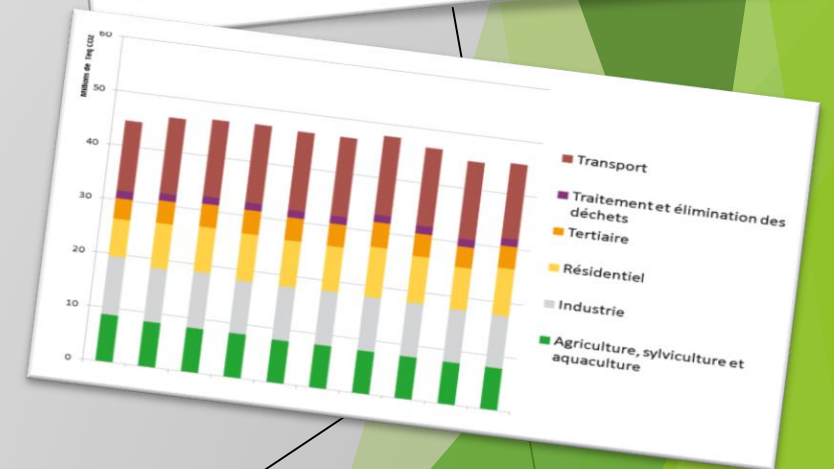
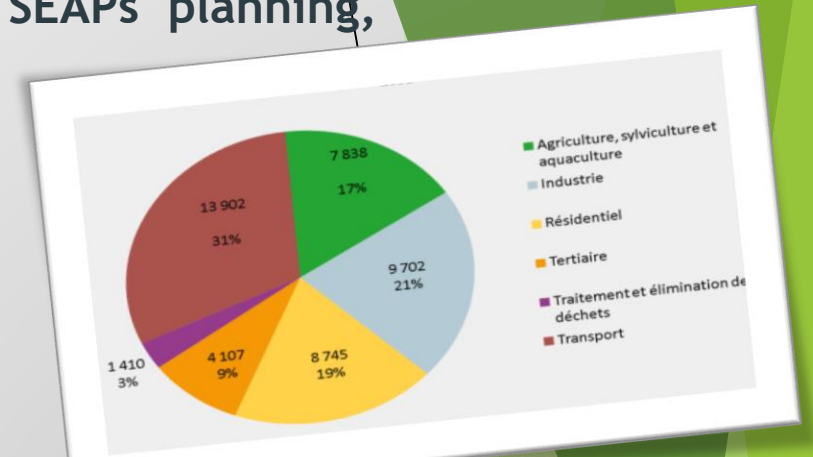
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What services do they offer?

- ▶ 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**



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Project outcomes

- *12 new regional data centres created or developed*
- *Policy recommendations about data sharing: role of DSOs, confidentiality, dissemination*
- *Showcasing collaborations involving more than 60 LA and 30 data providers*
- *Online capacity building tools: partnership management, data processing and data dissemination, SEAP monitoring,...*
- **ENERGee Watch** *org : EU network created and supported by Fedarene*
- *14 joint exchanges with structures outside the consortium*

DATACTION



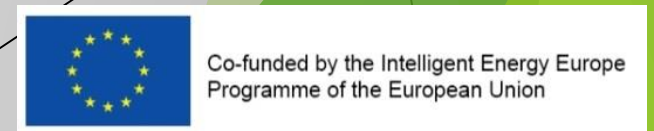
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The Energy Observatory of Torino

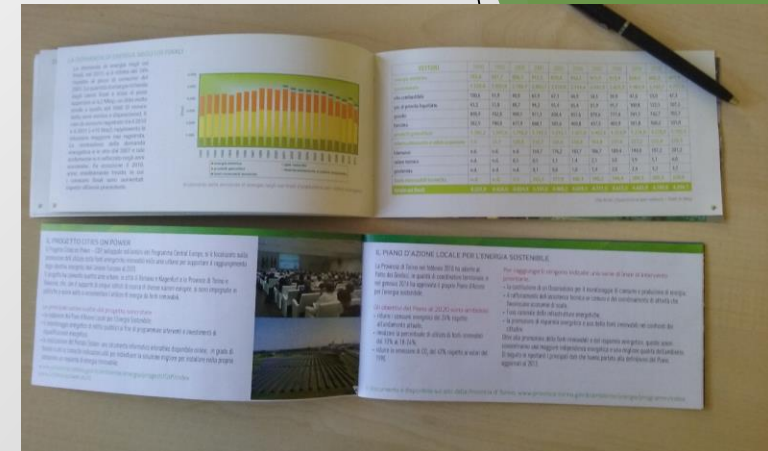
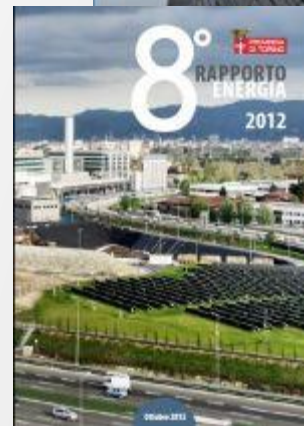
- ✓ Provide a data collection/transfer service;
- ✓ Improve the ability to process data at regional and local level;
- ✓ Mobilize main regional and local actors in common activities;
- ✓ Make sure of a sound coherence between data for SECAPs drafting and regional/National Energy Plans



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Energy Reports



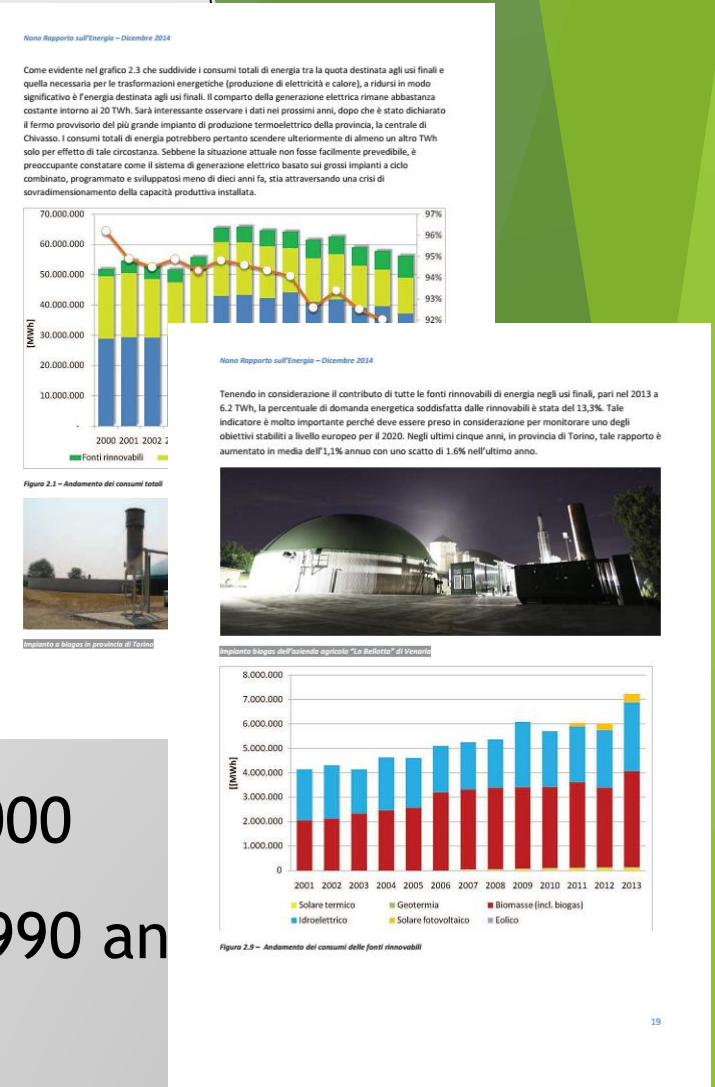
Energy Reports

More than 100 energy operators contacted, among:

- Energy distributors
- Energy producers
- Statistical offices of institutional bodies

The document has been updated every 2 years since 2000

Energy database is available at provincial level since 1990 and at municipal level since 2000.



The Energy Observatory

- Establishment of a Regional Advisory Board
- Roundtable discussion with data providers
- Establishment of agreements with data providers
- Establishment of agreements with the Municipalities for the use of data



Città metropolitana di Torino
**OSSERVATORIO
ENERGIA**



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The online tools

Several tools have been created:

- Online database for data provision to Municipalities
- WebGIS on RES (power generation)
- tool for data collection from Municipalities



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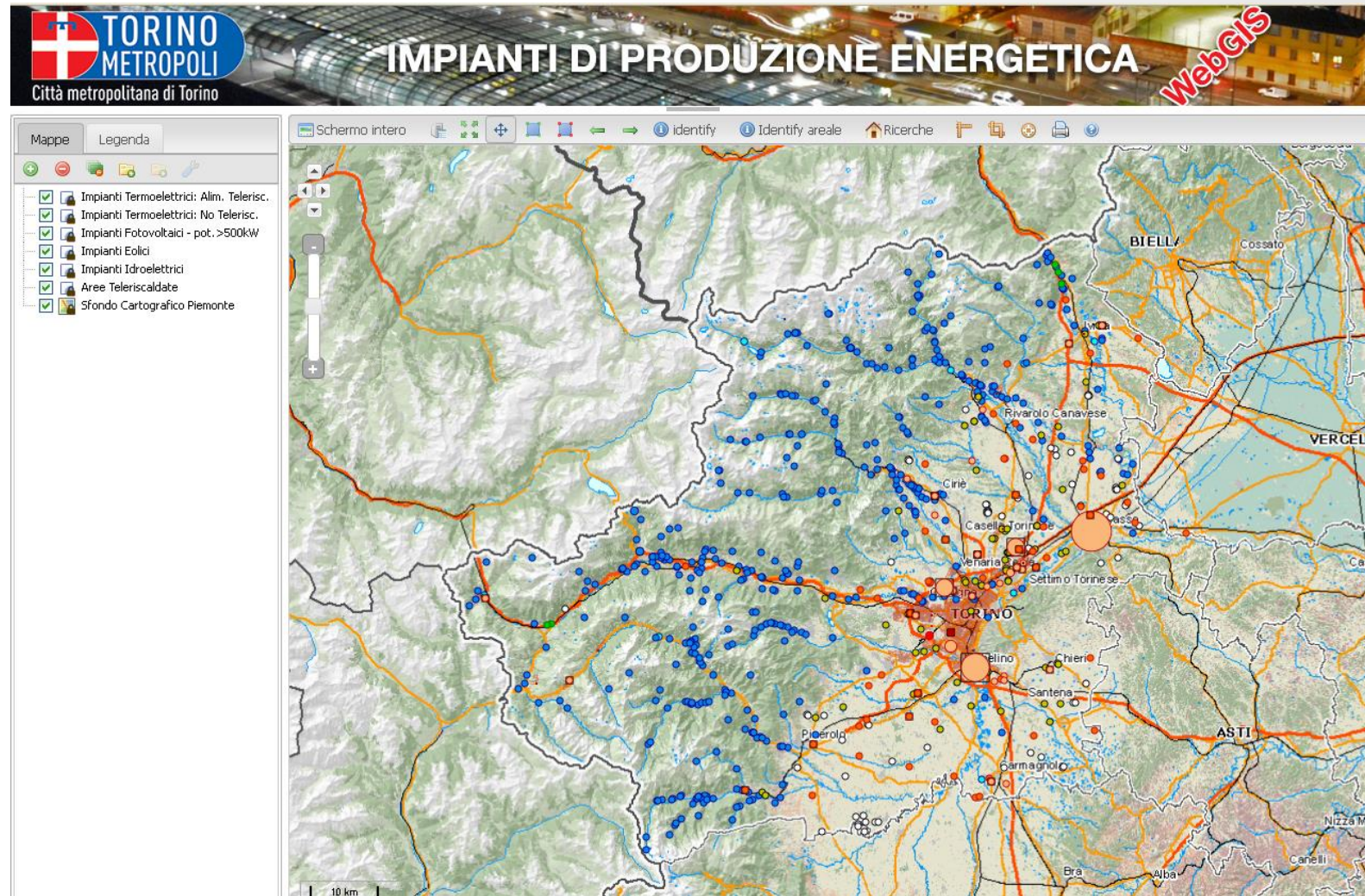
The online tools

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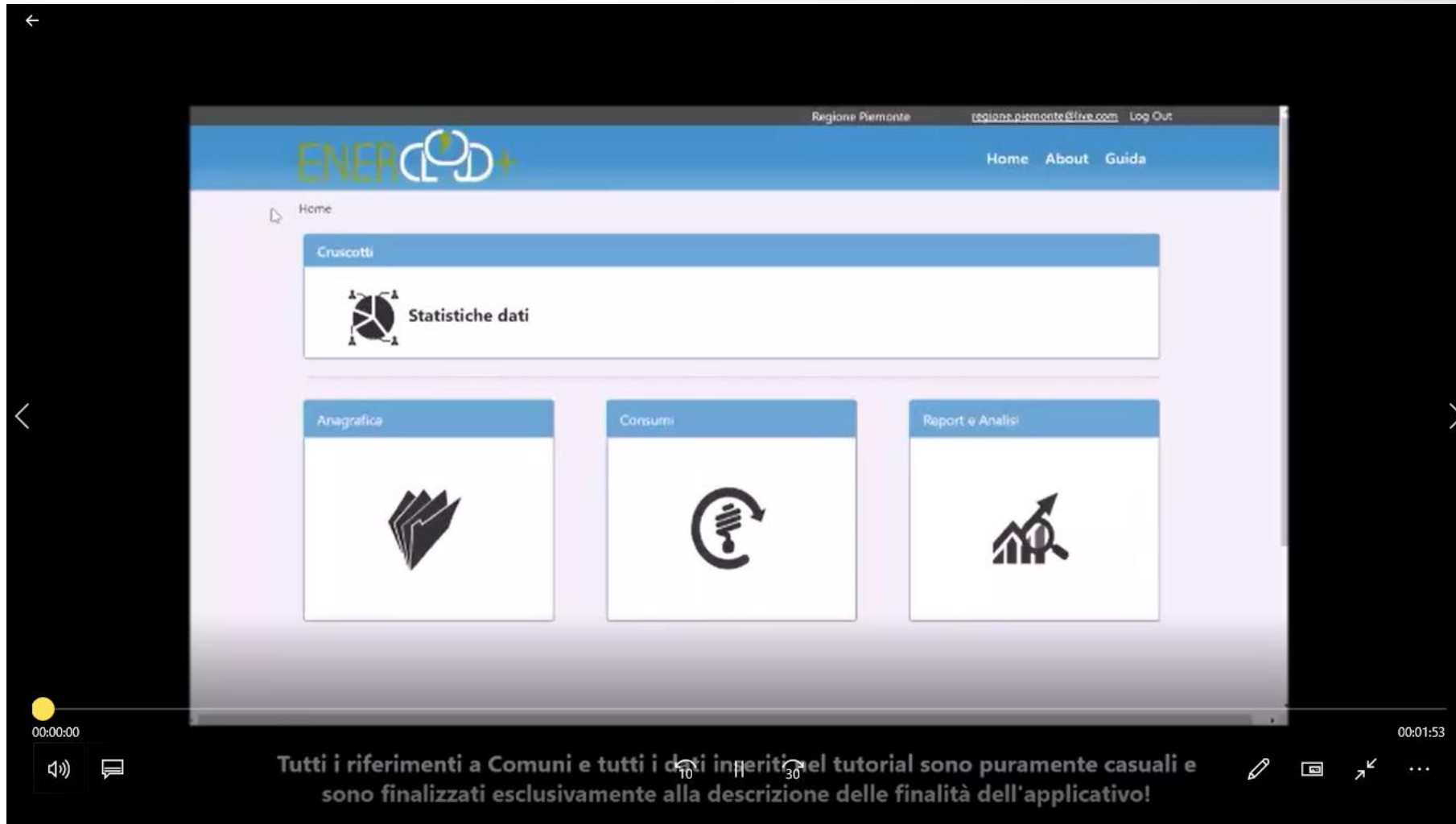


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WEB GIS on RES (power generation)



Enercloud: a tool for municipalities



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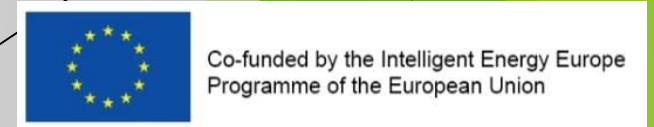


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Energy Observatory activities development

- ✓ Set up an energy reporting system at regional level with the aim of monitoring the Regional Energy Plan (more data are available from national sources ... Even for thermal RES);
- ✓ Expand the use of Enercloud at Regional level (already ongoing): so far more than 70 municipalities involved for a sample of 650 buildings and 30.000 street light points and going toward a centralized service for energy management of a bundle of Municipalities;
- ✓ Expand to all Regional Municipalities (about 1000) the data provision for SECAP drafting;
- ✓ Interaction among regional database: energy certificates, heating boilers cadaster, enercloud+;

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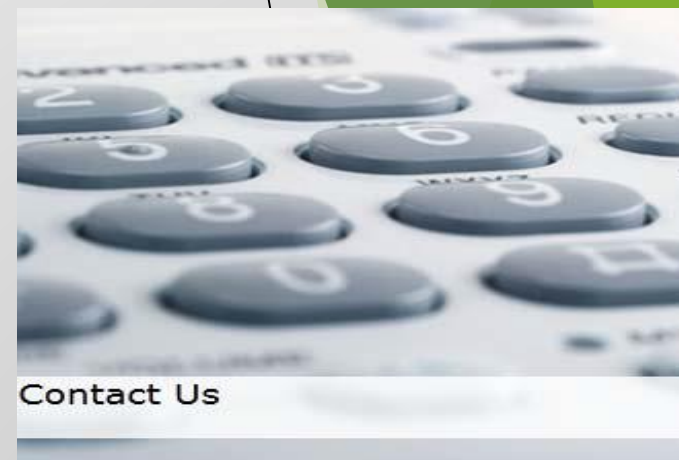
Thank you for your attention

► More information

www.data4action.eu

► Contacts:

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