DAT4CTION in Liguria region, IT
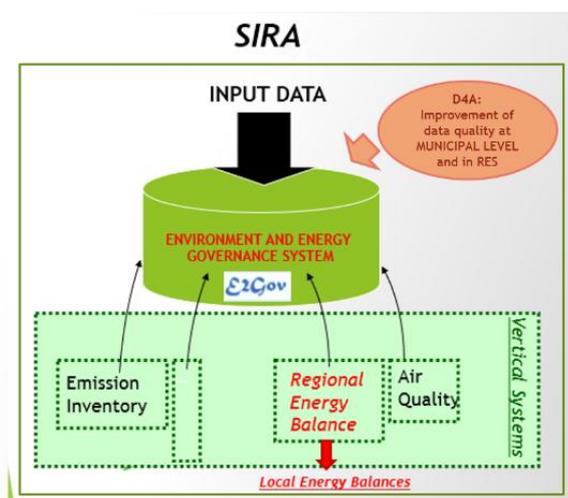
Data Sharing: Key Issues & Local Needs

Introduction

The main objective of the Data4Action project is to improve local authorities' access to energy data. Organizations from eleven different European countries participate in this project, which is co-funded by the Intelligent Energy Europe Programme. This document summarizes the situation and objectives of Data4Action in Liguria Region.

Objectives

The implementation of the Regional Observatory of Liguria Region (SIRAL) within D4A aims to:

- develop a targeted application (ongoing) for the municipalities in order to allow them to collect and manage the energy data related to their own properties, to improve the reliability of data in the Regional Observatory, integrating these municipal level data in the system, and to automatically generate Covenant of Mayors Baseline and Monitoring Emission Inventories (BEI, MEI);

- improve the quality of the data, in particular of the RES sector, involving associations of sellers of RES technologies.

Sharing information on sustainable energy in Liguria

The Regional Database, originally created in 1997 to prepare the polluting emissions inventory, is coordinated (also for the data collection process) by the Liguria Region with the support of IRE SpA and other technical partners. It's now able to support the regional energy planning activities providing data for the energy balances at regional, provincial and local levels for the years 2005, 2008 and 2011. Another important field of operation is related to the Covenant of Mayors initiative that is widespread in the region (more than 100 municipalities involved out of 235 existing in Liguria): final energy consumptions data from SIRAL are used by IRE to prepare BEIs (most of which are referred to the 2005 as baseline year) and it allows to make congruent comparisons among the different situation in the regional territory.

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Sources of information at local level

Energy	Sector	Information source	Quality
Electricity	Household, public lighting	Local level data municipal provided by national operators (GRTN/Terna).The main national distributor (Enel Distribuzione) is now starting to provide data at municipal level for each CoM sector.	High
Electricity	Industry, Agricolture,Tertiary	Questionnaires to punctual plants using great amounts of electricity; Local level data municipal provided by national operators (GRTN/Terna).	High
Natural gas	Industry	Questionnaires to punctual plants using great amounts of fuel and data from the main energy distributors (SNAM Rete Gas..)	High
Natural gas	Household, tertiary, public administration	Data from the main energy distributors per municipality. The sharing of tertiary and municipal sectors is estimated on the basis of electrical consumptions.	High
Coal	Industry	Questionnaires to punctual plants using coal	High
Diesel oil, gasoline, LPG	Transport	Top-down estimation starting from provincial data provided by the National Oil Bulletin and products sales by Province. Use of a specific estimation model for transport sector (E2road) applying different type of traffic contexts and vehicles	Medium
Oil products	All sectors	Questionnaires to punctual plants using great amounts of fuel, to the main deposits in the region about the sales and to the Port operators (diesel consumptions); top down estimation from provincial data provided by the National Oil Bulletin.	Medium
Solar thermal	All sectors	Data from some punctual plants and estimations from different sources (regional fundings and tenders)	Low
Biomass	Households	Regional statistics from ISTAT (National Institute of Statistics) and national surveys.	Low
Solar PV, Wind, hydro, waste biogas	Electricity production	Data by surveys on all the regional punctual plants (Hydro, wind and waste biogas). Data of the PV energy production for each municipality (National database- GSE Atlasole).	High

Main problems to overcome

Main problems to face in the data collection process	Proposed solutions
No specific obligations are in force for utilities and operators so the data sharing process was founded on a voluntary basis so far.	More detailed obligations for the data providers officially formalized by National law.
Very poor information at local level for the use of thermal RES (heat pumps, biomass and solar thermal).	Involvement of associations of sellers of RES technologies/ products through dedicated meetings.
Just estimations for the energy data of municipal sector.	Targeted application of the Regional Database for the municipalities (see above D4A objectives).
Lack of resources to improve and update the Regional observatory, also because it is not compulsory by the law.	EU funding and projects.

Contact

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