

POR FESR 2007/2013

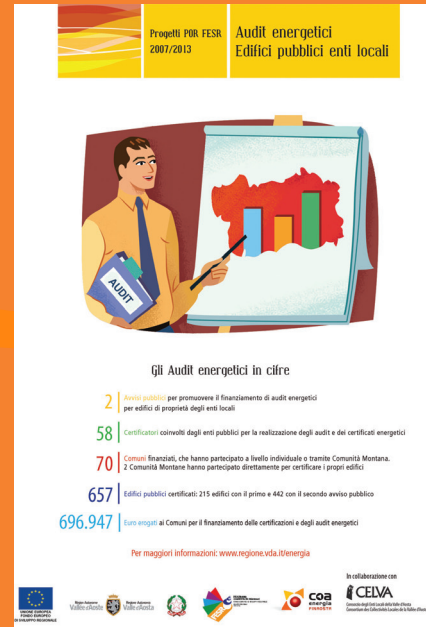
Funding for energy audits of public authorities buildings

KEYWORDS:

- Building culture
- Construction
- Closed loops
- Governance
- Planning Tools
- Ecology
- Energy efficiency
- Indicators
- Mobility
- Technology transfer

TARGET GROUP:

- Architects
- Builders
- Citizens
- Craftsmen
- Home Owners
- Planners
- Politicians
- Policy Makers




Progetti POR FESR 2007/2013 | Audit energetici Edifici pubblici enti locali

Gli Audit energetici in cifre

- 2 | Avvisi pubblici per promuovere il finanziamento di audit energetici per edifici di proprietà degli enti locali
- 58 | Certificatori coinvolti dagli enti pubblici per la realizzazione degli audit e dei certificati energetici
- 70 | Comuni finanziati, che hanno partecipato a livello individuale o tramite Comunità Montana. 2 Comunità Montane hanno partecipato direttamente per certificare i propri edifici
- 657 | Edifici pubblici certificati: 215 edifici con il primo e 442 con il secondo avviso pubblico
- 696.947 | Euro erogati ai Comuni per il finanziamento delle certificazioni e degli audit energetici

Per maggiori informazioni: www.regione.vda.it/energia

In collaborazione con:


Results and outcomes (use cases):

The data collected in the energy audits of the publicly owned buildings of the Aosta Valley Region provide important information about the characterization of the buildings in particular related to the building envelope, the plants and the employment of fossil or renewable energy sources.

The characterization of the fuels used in the different buildings shows a wide use of fossil fuels, which amounts to values higher than 80%. Taking into account a boundary altitude of 900 m. above sea level, the analysis of the use of fossil fuels in the Regional territory reveals the prevalent use of methane in the portion of land at lower altitudes, replaced by diesel in the side valleys which are difficult to reach from the main distribution networks of fuels (natural gas, etc.).

The data collected in the energy certificates

allowed for an analysis of the dissemination and distribution of renewable energy sources on buildings owned by local authorities. In particular, 14% of the energy certificates reported the presence of renewable energy systems for the production of heat or electricity in public buildings.

The most used renewable source by the local authorities in the area is biomass (which consists mainly of pellet and, in smaller percentages, wood chips and wood), followed by solar thermal and photovoltaic. One of the analysed buildings is equipped with a small wind turbine plant.

Some buildings use renewable sources in a combined mode for the different needs of energy requirement of buildings (4% biomass and photovoltaic, 1% solar thermal and photovoltaic or biomass and solar thermal).

Description: The Operational Programme "Regional Competitiveness 2007-2013" of the Aosta Valley Autonomous Region co-financed by the ERDF foresees, on the axis "Promotion of sustainable development", fundings for activities related to the "exploitation of renewable energy sources and for the promotion of energy efficiency".
In this programme the Aosta Valley approved fundings for energy audits of buildings owned

by local authorities, in order to promote interventions for the energy optimization of the public existing buildings heritage and the greater diffusion of technologies using renewable sources. The initiative has foreseen: 2 public notices for the promotion, 58 energy auditors involved by the public authorities for the realization of the audits and the energy certificates, 70 Municipalities financed and 657 public owned buildings energy certified.

Relevance for inter-municipal planning (AlpBC):

The funding for energy audits of the publicly owned buildings has been a great opportunity to set-up a wide data-base; with the energy certification all the data related to the energy performance of the buildings have been collected (e.g. parameters of the opaque and transparent envelope, performance of the plants, kind of fuel, use of renewable energy sources, etc.). Through the energy audits all the data related to the real consumption of heat and electricity have been reported. These data are widespread in all the Region; in the AlpBC inter-municipal

area of the Mountain Community Monte Cervino 123 buildings have been audited and certified. From this set of data it would be possible to make the decision makers aware of the energy characteristics of their buildings (strengths and weaknesses). The collection of data could be the starting point to set up the inter-municipal energy balance of the area; moreover it could be the means to program the interventions for the energy renovation of publicly owned buildings, while providing an example for the private building sector.

Relevance for policy goals (Alpine Space, Europe and the region):

This initiative has been important for the implementation of regional energy policies, since it lead to the knowledge and the characterization of the public owned buildings. It also allowed for the orientation of the

energy planning of the territory in order to achieve the 20-20-20 goals, providing local authorities with the priorities of intervention for the energy renovation of the existing heritage.