FINAL MEETING AND CAPACITY BUILDING of EMPOWER project

Online event 23th September 2022

Partner 4 - ARRR

Sergio Gatteschi

Our main stakeholders:Tuscany Region, Metropolitan City of Florence Municipality of Florence, Casa SpA, ASL South East Tuscany, ASL North West Tuscany, SILFI, University of Firenze Faculty of Engineering , CET (Tuscany Energy Consortium)

The role of Empower to improve regional policies:

- Specific interventions to incentivize the monitoring of the regional call for the **POR FESR 2014 - 2020**, which made € 52 million available to public bodies.

- Intervention in collaboration with the MA, the Region of Tuscany, in support of public bodies: 12 projects implemented.

- Update: The Tuscany Region approved the proposal for the **POR Fesr 2021-2027** .

- Investments planned to date in measures to improve energy performance of public buildings: **38.328.000,00 Euro by 2029**

- Will be financed, also thanks Empower project, interventions for the installation of intelligent and integrated systems for remote control, regulation, management, monitoring and optimization of energy consumption and polluting emissions (such as, by way of example, the Building & Automation Control System - BACS)
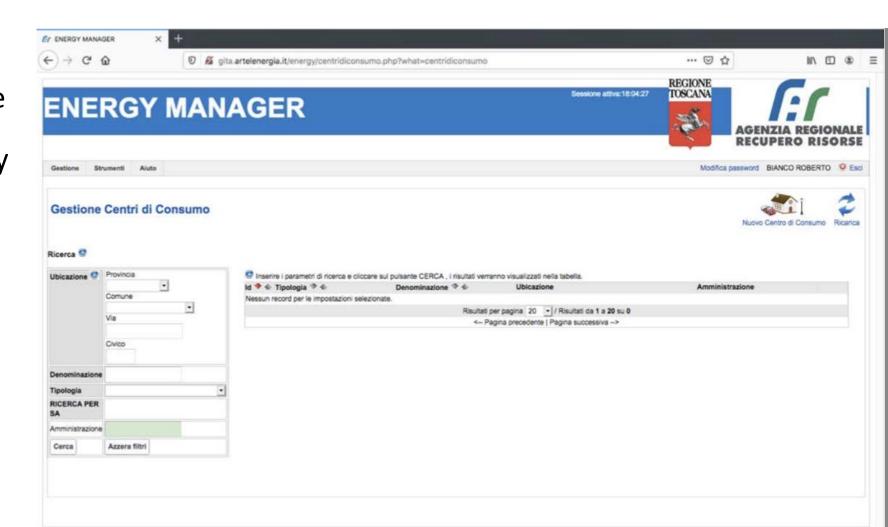
- **Action 1**: The **New Smart City Control Room of Florence** - under construction - will be in service of the Digital Florence Plan, with the aim of developing a common and virtuous path on the theme of digital services, innovation, smart city, quality digital communication to citizens, digital skills for citizens, businesses and public administrations, simplification, participation and transparency, of monitoring and better use of public services.

Action 2: A new monitoring system for regional buildings

- ARRR is creating a database for the Tuscany Region where the data collected by the CET of energy consumption of all regional buildings will be entered.

The «Energy Manager» platform will allow to:

- view all energy consumption centers: buildings, means of transport,

- public lighting systems and any other structures;

- create the personal data and enter the technical data of each building / consumption center: type of building, year of construction, surface, volume, windowed surface, dispersing surface, interventions carried out, user numbers, etc. ..

- enter the data and information of air conditioning systems, electrical systems and production plants from renewable sources;

- enter the monthly and annual electricity and thermal consumption and the related costs as well as other data necessary to evaluate the efficiency of the supply (power available by contract, consumption by time bands, etc.);

- graphically represent the consumption trend and calculate energy performance indicators, such as the average energy consumption of the building per square meter for each energy source and per degree day (in order to purify the seasonal climate effect) to be compared with the others buildings; calculate CO_2 emissions; create "queries", such as buildings that have increased consumption in the last 3 years or buildings with average consumption above the average of the type (a school on the average of all schools) etc .

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Thanks for the attention!
Sergio Gatteschi
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