**The preconditions for an energy efficiency intervention in existing buildings: a seminar within the European Sustainable Energy Week.**


**July 4, 2017** – The houses built 40 years ago in our neighborhood are showing all their limits from the point of view of energy efficiency. Nowadays, new technologies are available that can significantly reduce energy consumption, but the question we ask is: *"These new solutions can be applied to buildings built several decades ago*?" The answer comes from the "BuildHEAT" project, funded by the European Commission (GA 680658) and coordinated by EURAC, which is developing a demonstrative approach on three buildings in the European cities of Rome (IT), Manchester (UK) and Zaragoza (ES). It was discussed during the seminar organized last 3rd July at Sala Falconi by the RIGENERA Business Network, organization coordinates the BUILDHEAT demo case in the area of Rome. BuildHeat, devoted to urban regeneration through state-of-the-art technology solutions for the energy efficiency of buildings, with the help of innovative financial models will be enable the realization of the interventions thanks to the energy efficient and affordable retrofit solutions and without overburdening residents.

The meeting, proposed within the EU Sustainable Energy Week (EUSEW), saw the participation of another two European projects:

- GUARANTEE project (GA 696040), coordinated by ENEA *(Italian National Agency for New Technologies, Energy and Sustainable Economic Development)* and has the objective of aims to develop innovative business and financing models for performance-based ESCO projects.
- "SMART UP" project (GA 649669), coordinated by AISFOR (Agency for Innovation, Development and Education) and aimed at increasing awareness of vulnerable families on household energy consumption (how much and how they consume) and to help them in adopting new energy efficient consumption habits through training of and assistance / information from social workers and energy technicians (e.g. installer of smart meters) working directly with vulnerable consumers (frontline staff).

Returning to the debate, energy efficiency is also at the heart of the European strategy that has set up the European Energy Efficiency Platform (E3P) organized around the six thematic areas: products, cities, buildings, transport, industry, and finally, Distribution (heating, cooling and electricity).

After a brief introduction by Dr. Maurizio Puggioni with greetings to the audience, was interviewed Stefano Rocchi, President of the RETE RIGENERA *"Homes built 40 years ago have problems in terms of energy efficiency. It is on this point that we want to act as a RIGENERA*

*business network, by making projects that must become a model for the neighbourhood regeneration. It's about an approach for a deep retrofit intervention. We will intervene using important technologies with the aim of reducing energy consumption by as much as 60-80% compared to the current one. There are technologies to bring efficiency to the highest level, while the biggest challenge is to convince people of the importance of the proposal".*

Anna Moreno presented the GUARANTEE project and explained the importance of introducing the Building Information Modeling system (BIM) in support of communication, simulation, cooperation and improvement of a constructive project along the full life cycle of the building; Carlo Proietti (vice president of *Associazione Italiana Case*) has highlighted, among other issues, that the process of energy redevelopment can not only be the responsibility of families but, as it benefits the community, it must have incentives from the public administration; Mario Nocera, architect at ENEA, provided information on incentive tools for energy efficiency improvements on properties (deductions and incentives); Marina Varvesi (AISFOR) illustrated the SMART_UP European project aimed to assist users to be more efficient to consume less and consume better to reduce the risk of "energy poverty"; The architect Pierluigi Cavicchioni has presented details about the requalification project under BUILDHEAT project, exposing the preconditions for a building efficiency improvement and mentioned the difficulties that impact the proposal when buildings are in violation and abuse that has never been sanctioned; Fabrizio Martini, engineer expert in energy management has announced how important it is to know the history of the building to optimize plant and heat insulation interventions; in conclusion Giorgio Scavino, an expert in European projects, has exposed how the Buildheat project not only deals with technology but is also an occasion for cultural exchange among citizens and stakeholders.

To conclude, the presenters have expressed the hope to continue with energy efficiency seminars to understand the benefits of this solution have for both the environment and the consumer's pocket. The revaluation of the property as a result of these interventions is only one of the positive aspects to be highlighted. Switching from class G to class A, means a significantly reduction of the energy needs of apartments with a significant difference in terms of costs for consumed energy.

The panoramic images of the Colli Aniene district and the pilot area of the BUILDHEAT project, made by Emiliano Folletto, RPAS pilot (Remote Pilot Aircraft System) and by the architect Ettore Luglini, were previewed to the participants of the event.