



MountEE: Energy efficient and sustainable building  
in European municipalities in mountain regions

## **REGIONAL STRATEGY**

**Region / local area considered: FRIULI VENEZIA GIULIA REGION**

**Regional strategy submitted by RCC AND ARES**

## 1) Description of the context

The biggest barrier right now in Friuli Venezia Giulia is the general economic crisis that is stopping all construction and renovation. In addition, the mountainous part of the region consists primarily of small towns that have little budget and even a few technical knowledge. Small municipalities have little technical knowledge to integrate energy efficiency and sustainability criteria in public procurement.

Energy certification of buildings is seen more as a bureaucratic exercise than as the evaluation of the performance of buildings.

The sustainable construction industry is not well developed in the region and most of the certified materials or more efficient one comes from outside the region.

Professionals and craftsmen lack of technical knowledge related to energy efficiency and build as they have always done in the past.

There isn't any kind of advisory service for municipalities for promoting energy efficiency.

In Friuli Venezia Giulia we have one relevant element of strenghtness: the region introduced a framework for the assessment of buildings based on the international standard "SB Tool", and it may be considered the first step towards a strategy for sustainability in construction. It analyzes both energetic and environmental aspect of buildings.

Another very interesting possibility is given by climatic position to take advantage of renewable energy, particularly solar energy and hydropower.

In Friuli Venezia Giulia have joined the Covenant of Mayors:

- Municipality of Udine
- Municipality of Tavagnacco
- Municipality of Duino Aurisina
- Association of Municipality "Conca Tolmezzina" (Tolmezzo, Amaro, Cavazzo Carnico, Verzegnis)

In Friuli Venezia Giulia have joined the Alliance in the Alps:

- Andreis
- Aviano
- Budoia
- Caneva
- Cimolais
- Comeglians
- Comunità montana del Friuli occidentale
- Erto e Casso
- Forni di sotto
- Montereale Valcellina
- Pinzano al Tagliamento
- Polcenigo

## 2) Description of the objectives

The global political objectives of the strategy to promote sustainable buildings and renewable energy use are:

- Climate objectives : reduce CO<sub>2</sub> emissions, promote both energy efficiency and environmental sustainability
- Economic objectives : promotion of local economy also by short chain on the timber used for constructions and by used of certificated materials
- Local activity promotion

- Promote renovations rather than new construction, in consideration of the considerable number of existing buildings of historical / architectural value

### 3) Means to reach the objectives

#### 3.1 - Integration in Local politics/ climate plan/Sustainable Energy action plan

- set up the regional energetic plan or the regional sustainable energy action plan
- promotion at the municipalities to join the Covenant of Mayors
- promote sustainability through the application of the Protocol ITACA/VEA
- creation and promotion of a short chain of timber building and of timber as construction material (trace the source)
- promote the use of timber from certified forests (PEFC and FSC)
- create a market for sustainable construction in order to speed the transition to sustainable technologies in the construction industry
- promote the use of certified materials and not only CE but also with Environmental Product Declaration (ecolabel blue angel, ...)
- facilitate the certification of the construction material or through the creation of a regional laboratory or through agreements with laboratories in other neighboring regions
- reduction of CO2 through voluntary carbon market (as Carbomark project)

#### 3.2 - Means within MountEE

Assist mountain municipalities to build and renovate buildings with sustainable and efficient solutions and renewable energy use

#### Advise and assistance services for municipalities and social housing agency

Module 00	Green energy audit on existing buildings: energy and environmental audit protocol based on Protocollo ITACA
Module 0	Presentation of modules and results with the communal authorities
Module 1	Preliminary planning: definition of ecological aims in a program, supervision in competition
Module 2	Optimization of planning, tendering procedure: monitoring of offers
Module 3	Realization: Information for craftsmen, Product declaration, Product control,
Module 4	Control of success: Building site control, Measurements
Module 5	Service and maintenance: Monitoring on energy consumption , Support for maintenance plan and user manual of the building

#### Adapted funding policies

Improve existing funding and subsidies to sustainable buildings and social housing buildings  
Create new kind of financial instruments for public sector based on stock exchange of white certificates, or on third part society/ESCO

#### Training

Provide opportunities for training and improvement of knowledge of key actors of the building chain (builders, investors, architects, craftsmen and consultants).

### **Regional Cooperation committee**

Regional Cooperation committee (RCC) involves all key actors of the building chain (builders, investors, architects, craftsmen and consultants) in order to:

- exchange and sharing an overview of sustainable construction in our country;
- development of a strategy for sustainable building: sharing of objectives and actions of coordination with existing strategies (national and regional);
- evaluation and development of financial mechanisms for funding;
- selection of pilot projects;
- monitoring and implementation of support for local authorities;
- increased knowledge of stakeholders (politicians, technicians, professionals);
- exchange of knowledge and experience;
- training opportunities for all parties involved in the construction industry.

The members of the regional committee of coordination share the following concepts:

- it is necessary to work together to help our region, Friuli Venezia Giulia, to carry forward the concepts of sustainable building and energy saving;
- each member of the group wants to improve their knowledge in relation to these issues by taking part of the project activities MountEE;
- the members of the group want to help to create a market for sustainable construction in order to speed the transition to sustainable technologies in the construction industry
- the members of the group want to develop actions involving all the parties involved in the construction industry.

### **Pilot projects**

Municipalities and social housing organisations will start to implement energy efficient and ecological building and renovation projects by six pilot projects

## **3.3 – Time schedule and milestones**

### **4) Medium and long term vision of the strategy (1/4 page)**

In the next years and after MountEE project, what would be expected : generalization of sustainable public buildings ? Extension of the strategy to social housing or to private buildings...

### **5) Partnership, key actors**

- Region Friuli Venezia Giulia
- Comunità montana della Carnia, mountain community

- Comunità montana del Friuli Occidentale, mountain community
- Comunità montana Torre, Natisone e Collio, mountain community
- 108 mountain municipalities
- Regional Agency Promotur, public economic entity responsible for competition policy in the context of regional planning, promotion and management of the development of tourism and sports of skiing in the region.
- ATER Alto Friuli, social housing organisations
- ATER Provincia di Gorizia, social housing organisations
- ATER Provincia di Pordenone, social housing organisations
- ATER Provincia di Trieste, social housing organisations
- ATER - Azienda territoriale di Udine, social housing organisations
- AGEMONT, Agency for Economic Development of the mountain
- APE, Energy Agency
- Parco delle Dolomiti Friulane, Park of the Friulian Dolomites
- Parco delle Prealpi Giulie, Park the Julian Alps
- University of Trieste
- University of udine
- Agenzia del Demanio, State Property Agency
- Esercito italiano, Italian Army
- Ordine degli Architetti, Federation of Architects
- Ordine degli Ingegneri, Federation of Engineers
- Collegio dei Periti, Federation of industrial technicians
- Collegio dei Geometri, Federation of geometers
- Comitato tecnico scientifico di ARES, Technical and Scientific Committee of ARES
- Banca etica, Ethical Bank
- Cassa di Risparmio del Friuli Venezia Giulia
- Unicredit