



European Union
European Regional
Development Fund

Energy Communities pilot projects in Piemonte Region

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Sviluppo Energetico Sostenibile

Piemonte Region issued a Law in 2018 with the aim of promoting the establishment of Energy Communities

The Energy Communities are

- Entities with private and/or public members
 - Not lucrative entities
 - Promoted by municipalities by a Memorandum of Understanding
- Qualified as producers if the production is self consumed by at least 70%

Goals of the Law:

- Promote the decarbonization of the economic and territorial regional system
- Promote the production, consumption and share of energy, generated mainly by RES
- Promote energy efficiency in final energy consumptions

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What do ECs need to do?

- They draft within 6 months from their creation an energy balance;
- They have to draft an energy strategy within 12 months from their creation. The strategy define the actions required for the reduction of fossil energy consumption and the increase of RES generation. The actions must be coherent with the regional energy policies and must be periodically monitored.

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The Role of Municipalities

A municipality can:

- Promote the establishment of an EC and being part of it;
- Promote the establishment of an EC without being part of it;
- Take part to an existing EC.

The Municipality should take over a role of **supervision** of the EC and it should take the **coordination** of the EC members

a legal entity:

REC →

- (a) which, in accordance with the applicable national law, is based on open and voluntary participation, is autonomous, and is effectively controlled by shareholders or members that are located in the proximity of the renewable energy projects that are owned and developed by that legal entity;*
- (b) the shareholders or members of which are natural persons, SMEs or local authorities, including municipalities;*
- (c) the primary purpose of which is to provide environmental, economic or social community benefits for its shareholders or members or for the local areas where it operates, rather than financial profits;.*

CEC →

- (a) is based on voluntary and open participation and is effectively controlled by members or shareholders that are natural persons, local authorities, including municipalities, or small enterprises;*
- (b) has for its primary purpose to provide environmental, economic or social community benefits to its members or shareholders or to the local areas where it operates rather than to generate financial profits; and*
- (c) may engage in generation, including from renewable sources, distribution, supply, consumption, aggregation, energy storage, energy efficiency services or charging services for electric vehicles or provide other energy services to its members or shareholders;.*

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Our Regional example is a mix of it, taking some peculiarities of CECs and RECs

- As the **RECs**, it pays primarily attention to RES and must not become a DSO, as it should be established on public networks;
- As the **CECs** it pays attention to all type of energy and to energy efficiency as a core activity.

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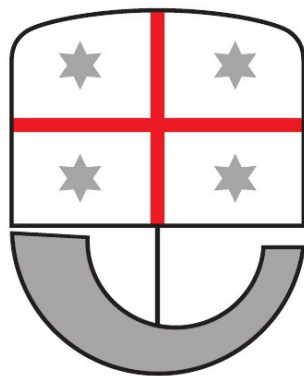
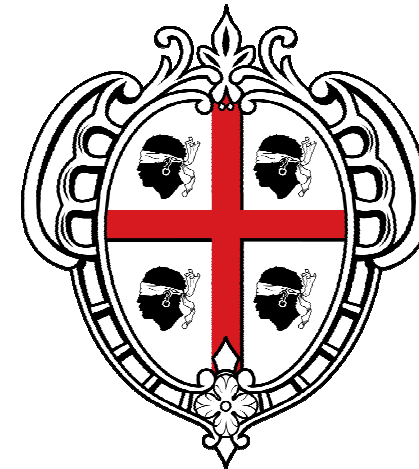
The Regional norms defined:

1. The minimum requirements to be respected by ECs;
2. The contents of the Memorandum of Understanding for the establishment of the EC;
3. The contents of the energy balance;
4. The contents of the Energy Strategy;
5. The procedure for the coherence assessment;
6. The procedures for the monitoring of the progress of the implementation of the Energy Strategy;
7. How to support the creation of ECs.

Energy Communities pilot projects in Piemonte Region. REQUIREMENTS

- Electric contiguity – The members of EC must be part of the same electric area (medium/low voltage area under the same high/medium transformer);
- Amount of electric consumption > 500 MWh
- Self consumption > 70%
- Local RES share – at least 50%
- EC membership – more than one consumer and producer;
- Network – The EC must be connected to a public grid network managed by DSOs;
- No requirements are set for the power plants, neither in terms of capacity installed nor in terms of date of operation

Other Italian Regions are following the example



REGIONE LIGURIA



REGIONE
PUGLIA



Energy Communities pilot projects in Piemonte Region

There are 4 pilot projects running in Piemonte. They are at a starting phase of analysis

Comunità Energetica



MONVISO ENERGY COMMUNITY

Comuni di **Scalenghe, Cantalupa, Roletto, San Pietro Val Lemina, Frossasco e Vigone** appartenenti alla *Oil Free Zone "Territorio sostenibile"*



Comunità Energetica



Preliminary figures

• <u>Number of members</u>	[17] 14 Municipalities and 3 operators
• <u>RES production</u>	16,3 GWh
• <u>Energy Consumption</u>	11,96 GWh

MONVISO ENERGY COMMUNITY

• <u>Number of members</u>	[11] 11 Local Authorities
• <u>RES production</u>	0,77 GWh
• <u>Energy Consumption</u>	1,21 GWh

Preliminary figures

Area Pinerolese

- | | |
|-----------------------------|---|
| • <u>Number of members</u> | [11] 6 Municipapltities, 5 energy operators |
| • <u>RES production</u> | 17,04 GWh |
| • <u>Energy Consumption</u> | 16,96 GWh |



UNIONE
MONTANA
ALTA VALLE
SUSA

- | | |
|-----------------------------|----------------------|
| • <u>Number of members</u> | 37 Local Authorities |
| • <u>RES production</u> | 5,2 GWh |
| • <u>Energy Consumption</u> | 5,16 GWh |

One of the key issues raised from the pilot projects is the access **to instant data** and to information on the **grid networks**

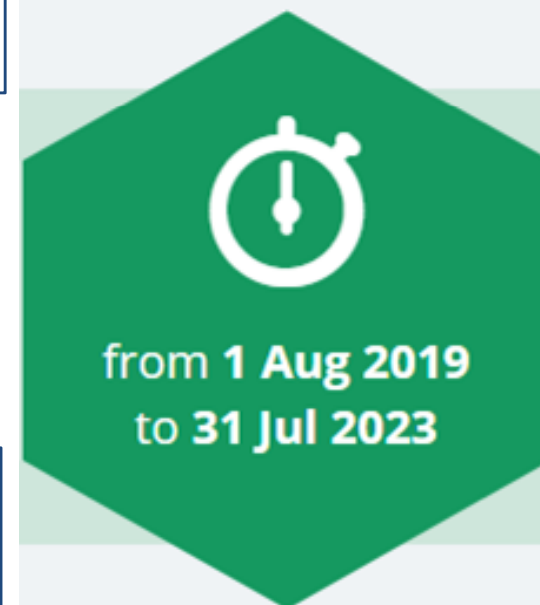
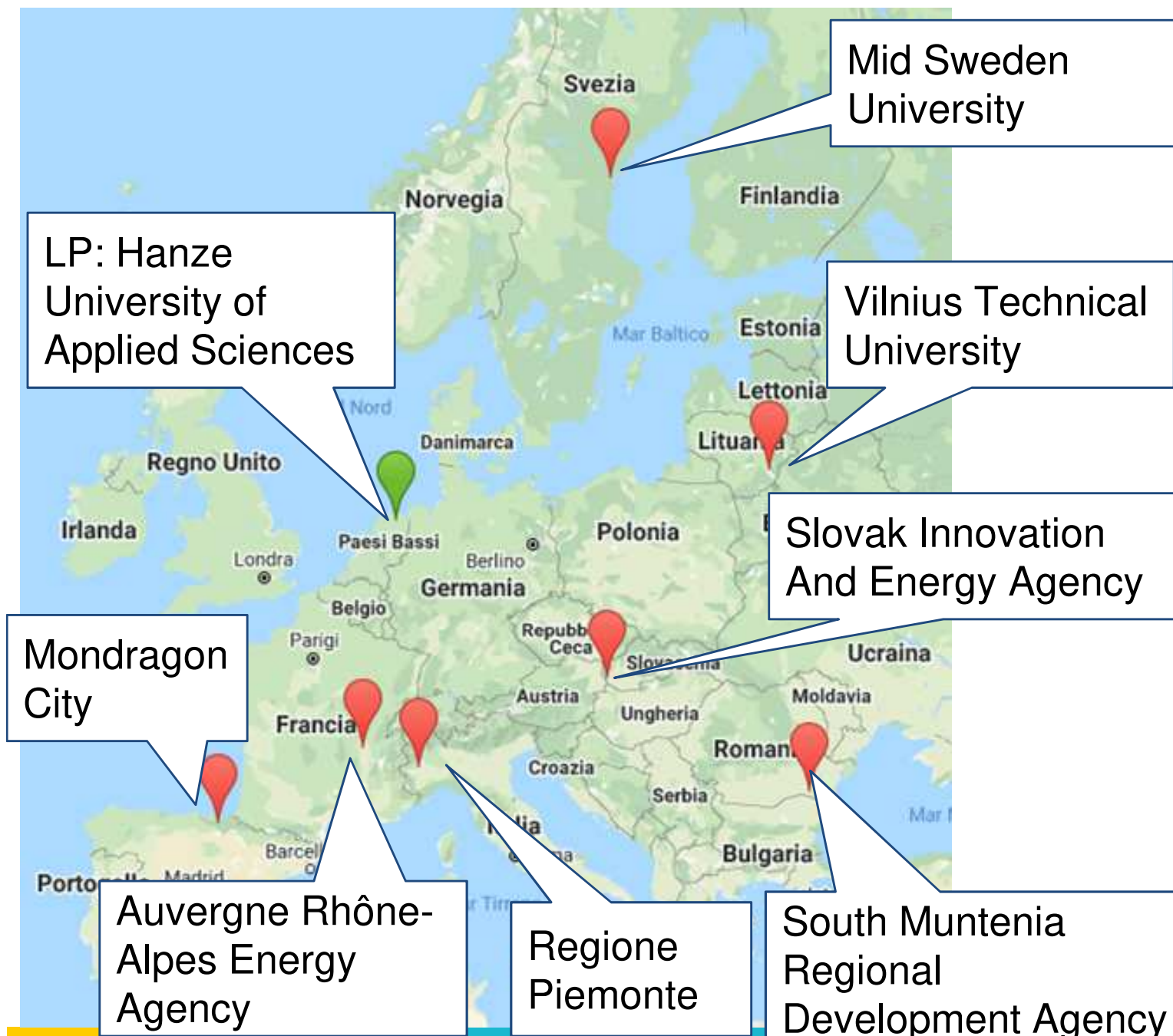
Is there something we can do about?

National legislation

The Italian Government anticipated the adoption of the RED II Directive, making it possible the establishment of collective self consumption or Energy Communities with the following conditions:

- RES power plants must have a capacity below 200 kW
- The plants must be connected to the public grid network managed by DSOs
- The electric area is limited to the low voltage grid for Energy Communities
- As far as the collective self consumption is concerned, it is limited to the same building/condominium
- Incentives are foreseen for 20 years for:
 1. Collective self consumption: 100 €/MWh
 2. Energy Communities: 110 €/MWh

1st December 2020 - virtual EUSALP AG 9 meeting





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Questions welcome

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