



Energy Communities Self Consumers

**New framework for the promotion of Energy Communities
and Self Consumers in Greece**

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Energy Communities – legal framework

First co
framework

Taking i
Clean En

A new Tool

- ❖ to open Energy
- ❖ to increase RES
- acceptance for re
- ❖ to tackle energy
- ❖ to improve ene

Energy Democracy / Locality

- ❖ A new legal entity, based on urban cooperatives
Synergies between Municipalities, Undertakings and
Citizens who wish to be active in Energy
- ❖ **1** member, **1** vote
- ❖ Maximum allowed share 20% (40% for municipalities)
- ❖ 51% of members should have a local interest
- ❖ For profit nature Communities, 51% of the members
should be natural persons
- ❖ Active only within the region



Activities of an Energy Community


- ▶ **Main Activities** (within the Region where the Community is established)
 - ▶ Production, storage, self consumption, sale of electric/thermal energy from RES and HECHP,
 - ▶ Production, distribution and supply of thermal/cooling energy
 - ▶ Supply to members of energy products and appliances to reduce energy consumption
 - ▶ Supply to members of electric vehicles
 - ▶ Distribution of electricity
 - ▶ Supply of electricity or natural gas to final customers
 - ▶ Demand-response to reduce end use of electricity
 - ▶ Management of alternative fuel infrastructures / electric vehicles fleet
 - ▶ Installation and operation of water desalination units using RES

- ▶ **Secondary Activities** for the support of the main activities and for awareness raising on energy issues

* *The Statute of E.C. **does not include** activities other than those mentioned*



Incentives

- ▶ Priority in Licensing of new RES and HECHP power stations
 - ▶ Higher threshold (MW) for exclusion from RES Tenders
 - ▶ Lower guarantees in licensing process, lower charges from last resort RES Aggregator
 - ▶ Special Provision in licensing Regulation (RES/HECHP, Electricity/Natural Gas supply)
 - ▶ Energy Sharing for Members of Communities
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Net Metering

- ▶ Net metering for PV's is open from 2015
- ▶ Virtual Net Metering: the production unit (e.g. pv park) could be installed in other site (within the region). It is allowed for farmers, public bodies and Energy Communities (special provision for grid/system tariffs in order not to discriminate)
- ▶ Net Metering and Virtual Net Metering, are to be open to all technologies (wind, hydro, biogas, etc) up to 1MW
- ▶ Storage facilities will be also allowed in the near future



Energy Sharing – Net Metering

- ▶ Energy Sharing is allowed within the members of the Community
- ▶ A RES unit (e.g. a pv park) could be installed by the Community within the region
- ▶ The energy produced from the pv park is shared between the members of the community and then is netted with the consumption
- ▶ So, each member is like having a virtual RES unit for netting its own consumption



Promote Energy Communities

- ▶ Energy Communities and Self Consumers should be promoted all over EU
- ▶ Enhance Self Consumers via attractive but not discriminatory charges
- ▶ Facilitate Energy Communities via a flexible framework and simpler procedures
- ▶ Establish Structures to support the start-up of Communities
- ▶ Create special financing tools (e.g. for low interest loans)
- ▶ Support Flexible Directives of Clean Energy Package



Examples of Energy Communities

Examples of EC in Rural Areas

▶ **District Heating**

The residents and / or undertakings of an area, together with the Municipality, could install a thermal energy production unit with a district heating system to meet their heating needs.

▶ **RES: WIND PARK/ PV / SMALL HYDRO**

The residents and / or undertakings of an area, together with the Municipality, could install

a wind park up to 6MW (exemption from tenders)

a pv park up to 1MW (exemption from tender)

a small Hydro of 1MW

▶ **BIOMASS SUPPLY CHAIN – RES POWER PLANT**

Farmers, foresters and / or businesses in the agricultural and forestry sectors create E.C. with a view to establishing and managing a biomass supply chain and / or installing and operating a biomass unit for the generation of electricity and thermal energy. The supply chain can feed the biomass plant, supply with its products such as wood, pellet residents etc.

Group of livestock breeders and / or agro-livestock businesses install a biogas unit for the production of electric and thermal energy, waste management (manure, whey, etc.) and fertilizer production.

A group of farmers and / or farmers set up a CHP unit in an area where it runs a gas network. The generated electricity will be injected into the grid, and the thermal energy will cover the needs of a greenhouse.



Other Examples

- ▶ **Net Metering – Self Consumption**
 - ▶ **A program for energy renovation of an apartment block**
 - ▶ **Support Vulnerable Customers**
 - ▶ **RES Desalination unit in an island**
 - ▶ **A RES Hybrid (storage) system in an island/remote area**
 - ▶ **Charging Points and EV Fleet Management**
 - ▶ **Electricity/Gas Supply**
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Thank you for your Attention!

