



## Energy Community a (new) European concept

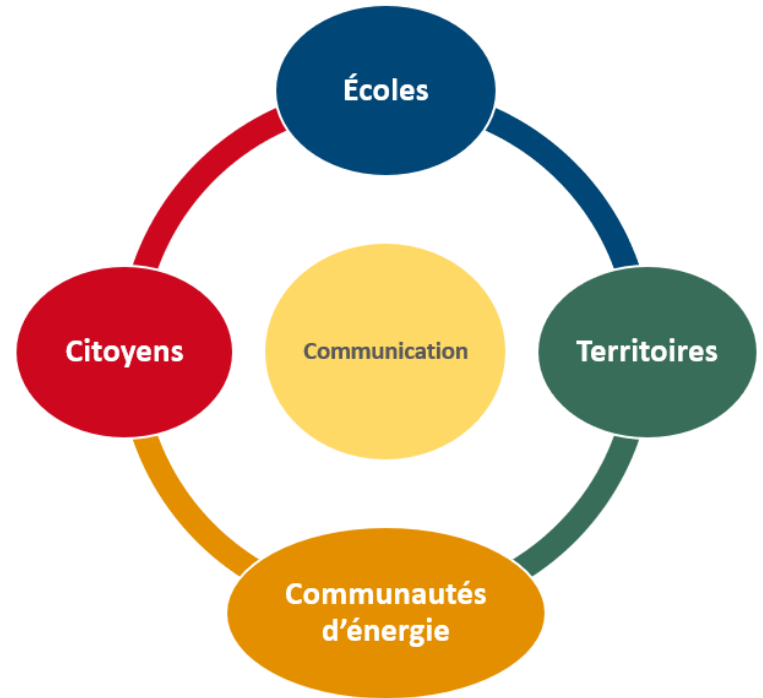
Benjamin Wilkin - APERe

EU PVSEC / My home 07.09.20



« APERe is an NGO that aimed to bring people and collectivities to their appropriation of Energy for a 100% renewable, sustainable and solidar energy system.

APERe follows the 5 <https://energy-democracy.net/> 's principles. »



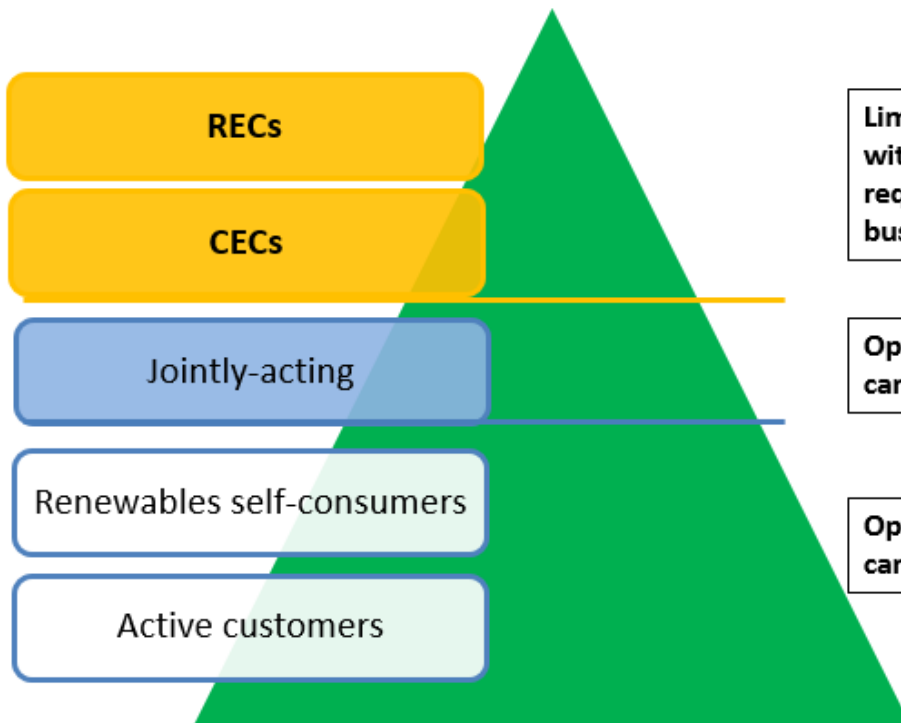


- (10) 'market participant' means market participant as defined in point (25) of Article 2 of Regulation (EU) 2019/943;
- (11) 'citizen energy community' means a legal entity that:
- (a) is based on voluntary and open participation and is effectively controlled by members or shareholders that are natural 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;

# Energy Community >< Collective self consumption



## CEP Concept



## Characteristics

Limited in eligibility; must be a legal entity with specific ownership governance requirements, and based on a non-commercial business model

Open to any consumer on a collective basis; can be facilitated by any business model

Open to any consumer on an individual basis; can be facilitated by any business model

# Renewable Energy Community - REC (Ganshoren – Brussel)

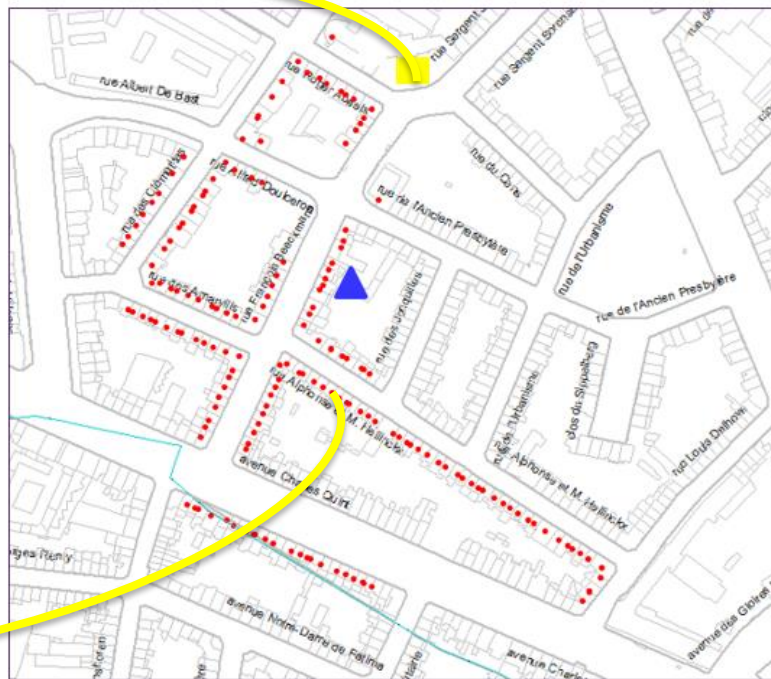


17%

Initial Selfconsumption ratio

- ➔ 15 consumers
- ➔ 2 producers
- ➔ Connected through Public grid

- ▲ Cabine réseau "Beeckmans 28"
- Adresses alimentées par la cabine
- École nos Bambins



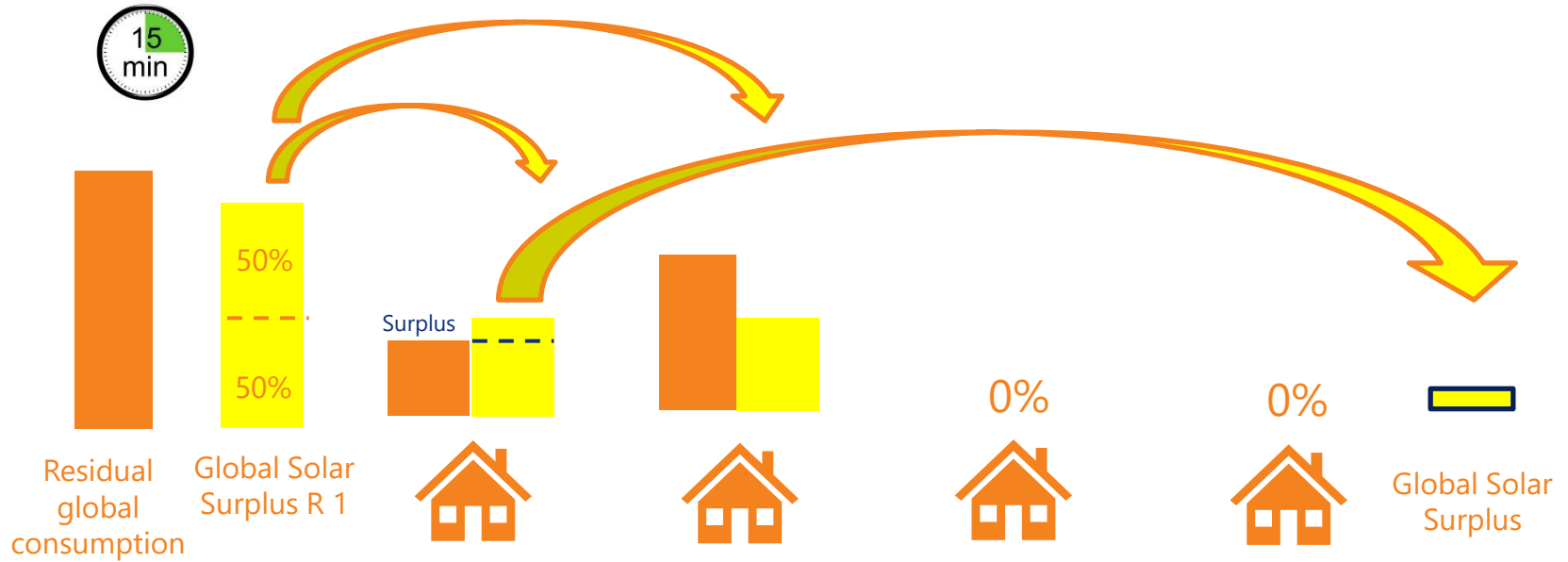


- No regulation (yet)
- Pilot project running with an electric regulator (Brugel) derogation on grid law
- Specific grid costs negotiated (Brugel) maximising the interest of
  - Consumers first (-0,05 €/kWh on average cost of 0,16€/kWh **HVAT**)
  - Producer then (0,03 €/kWh PV **HVAT** – quite low anyway)
  - Grid if we still have money (0,074 €/kWh **HVAT** – No négociations possible for High Voltage costs (Creg national regulator)  $\approx$  0,012 €/kWh **HVAT**).
- « Cascade » Energy distribution key (iterative process)
- Creation of a new legal entity (non-profit) with participants as member (producers and consumer + APERe as manager).

# Cascade distribution : Run 1

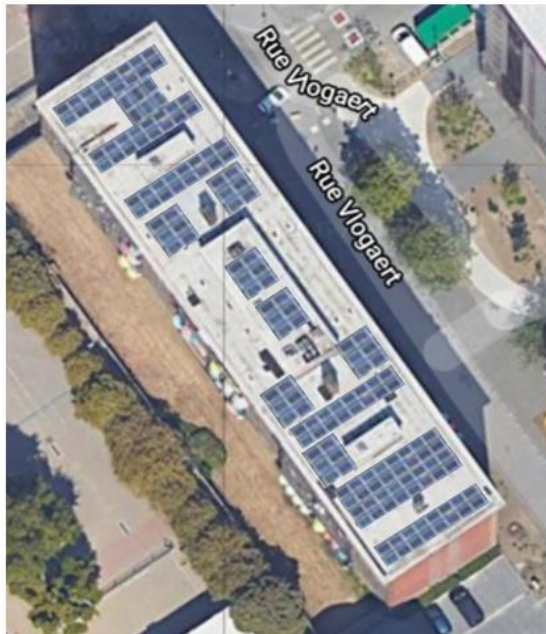


# Cascade distribution : Run 2 (same 15 min.)





# 'jointly acting renewables self-consumers' (St-Gilles – Brussel)



- 60 kWp of solar
- Social houses building
- 100 inhabitants (30 to 50 participants foreseen)
- Domestic hot water already powered by electricity
- 6 counter for common consumption (elevator, light, ventilation, ...)



- No new legal entity
- Pilot project running with an electric regulator (Brugel) derogation on grid law (on process)
- Specific grid costs to negotiate (Brugel) with a try to reduce grid costs related to « social solidarity » as the project take care of it.
- « Cascade » Energy distribution key (iterative process)
- Integration of basic clocks (on/off) to generate hot water when sun is shining
- Still to start (October 2020).



- Energy Communities should be more than business by adding **social & environmental added-values** (and it's quite new for the energy sector).
- Administrative costs must be tackled thanks to
  - **simplified** rules & procedures, as well as with
  - high level of **digitalisation** (for reporting, design, tasks ...).
- **Grid costs** must be (re)discussed considering real usage of the grid (locally) and new economic, social & environmental generated added-values.
- Combine to Energy Communities, Solar energy had never been in a so good place **to fight energy poverty**.
- Issues for Energy communities are less technical than **cultural**
  - **Understanding** by participants
  - **Awareness**



Thank you

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