

# **Clean Energy Package**

Provides opportunities for grid users and network operators to contribute to the more flexible, decentralized and digitized energy system of the future



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#### **Recast Electricity Directive**

#### Art 16 Local energy communities (LECs)

"An association, a cooperative, a partnership, a non-profit organization or other legal entity which is effectively controlled by local shareholders or members, generally value rather than profit-driven, involved in distributed generation and in performing activities of a distribution system operator, supplier or aggregator at local level, including across borders.'

1.(a) are entitled to own, establish, or lease community networks and to autonomously manage them 1.(e) where relevant, may conclude agreements with the DSO to which their network is

- connected 2.(a) participation in a local energy community is voluntary

- 2.(c) shareholders or members are allowed to leave a local energy community 2.(c) shareholders or members are allowed to leave a local energy community 2.(d) generating capacity installed by local energy communities as long as such capacity can be considered small decentralised or distributed generation 2.(g) subject to fair and cost-reflective network charges

# (Local) Energy Communities

Wim Winckelr

# Better alternative than ad hoc solutions

## **Direct line**

De Standaard, 6 april 2018,

Vlaamse bedrijven mogen straks een directe lijn aanleggen tussen hun bedrijf en een windmolen of zonnepark, zonder via het distributienet te passeren. 'Dit wordt een gamechanger.'

# Bedrijf mag rechtstreeks tanken uit zonnepark

### **Benefits of a Local Energy Community**

- No extra cable (lower system cost)
- Matching supply and demand with multiple parties (more widely applicable)

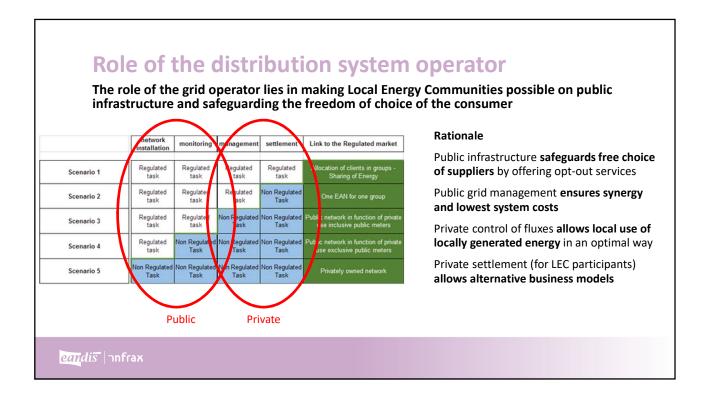
## **Closed distribution system**

a system which distributes electricity or natural gas within a geographically confined industrial, commercial or shared services site and does not supply household customers with electricity or natural gas, and which meets specific requirements

# **Benefits of a Local Energy Community**

- Less restrictions in terms of participants (more broadly applicable)
- Fair contribution to net and costs for public service obligations (more social)

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## New customer segment for the grid operator Local Energy Communities as a new customer segment with the need for a next generation offer MACROGRID **1** Collective (community) connection Connection to a common (connection)point with the public macrogrid. Optional support for island operation can be offered at this point. **2** Management of the LEC network Management of the (public) LEC network according to the standards I FC of the pulic distribution network. This includes construction, maintenance and interventions. Control of energy fluxes is done by the Local Energy Community. LEC-netwerk **3** Opt-out services for non-participants Unburdening of the LEC from this obligation. Non-participants receive a regular connection to the public distribution network. Consumption OPT-OUT: Non-communityand injection are corrected at the coupling point



We test this approach in different projects and from there we can share experiences aimed at transposing the EU directives into national regulations



**MSLEC Mechelen** Elaboration of the division of roles for collaboration between public and private parties in a Local Energy Community



**Green Energy Park Zellik** Development of an approach for a  $CO_{2^{-}}$ neutral, self-sufficient micro grid with evolving regulations and business models. Study of the feasibility of a Living Lab



member- lives whitin the zone but does not opt for LEC

Ecodistrict Gantoise Future-oriented business model for energy services based on cooperation between project developers and residents with energy costs that are no higher than "normal".

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