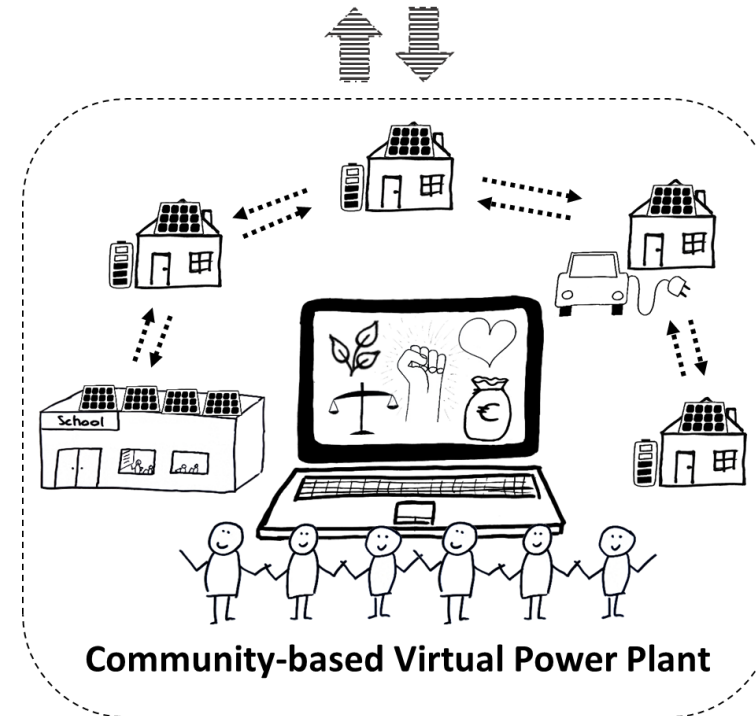


community-based VPP

The interactive
back-casting method:
from collective values & goals to flexibility

Solar for citizens

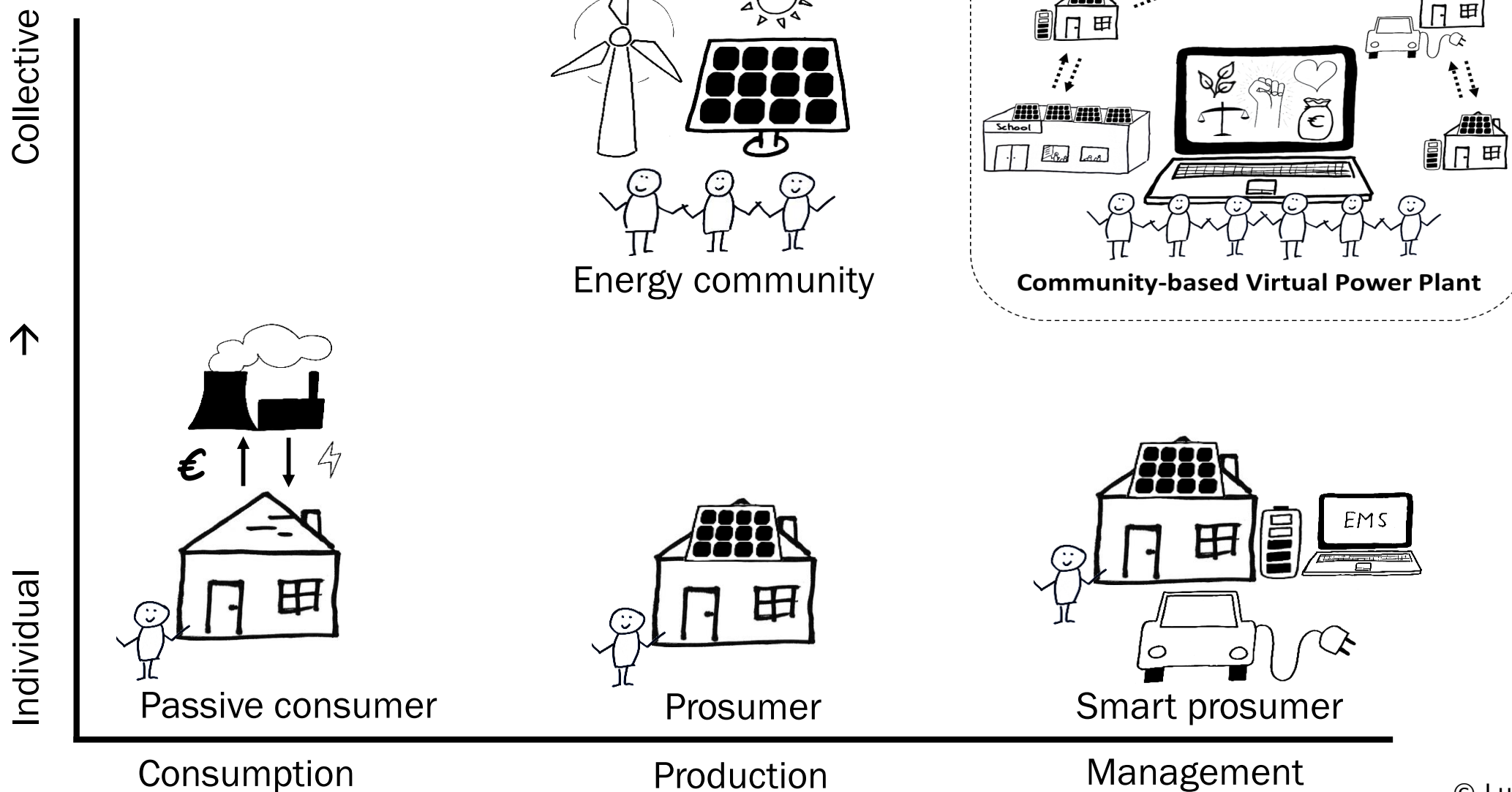
22 June 2021



cVPP animation

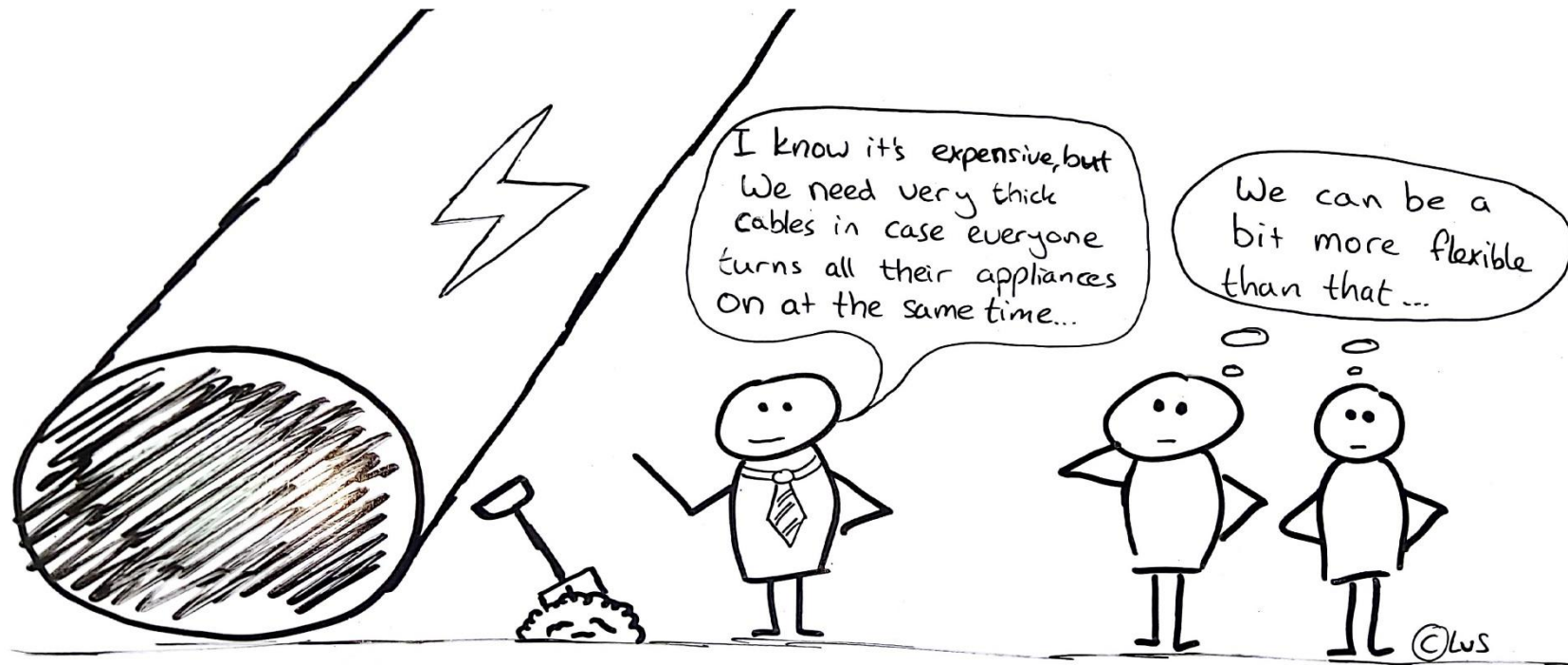


From consumer to ... cVPP



● — ◆ ● ● ○ ◆

*"Grid operators are busy
searching for solutions for the grid.
But what's in it for us?"*



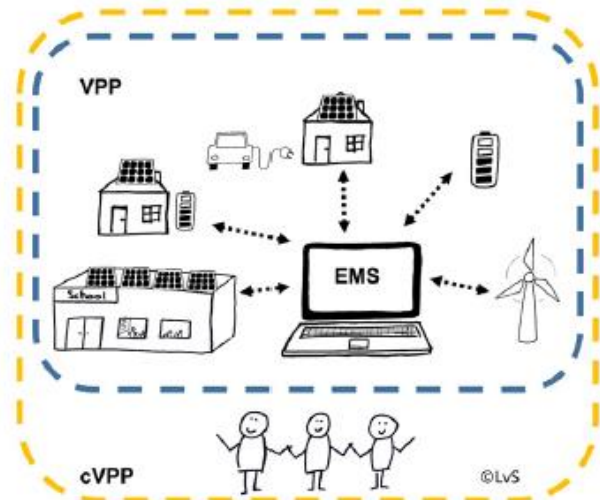
Renewable Energy *BY* citizens and *FOR* citizens

EU Clean Energy Package | Green New Deal | EU calls (Interreg, Life, Horizon...)

Empowering citizens for the transition to a climate-neutral, sustainable Europe

REC (Renewable energy community) and CEC (Citizens energy community)

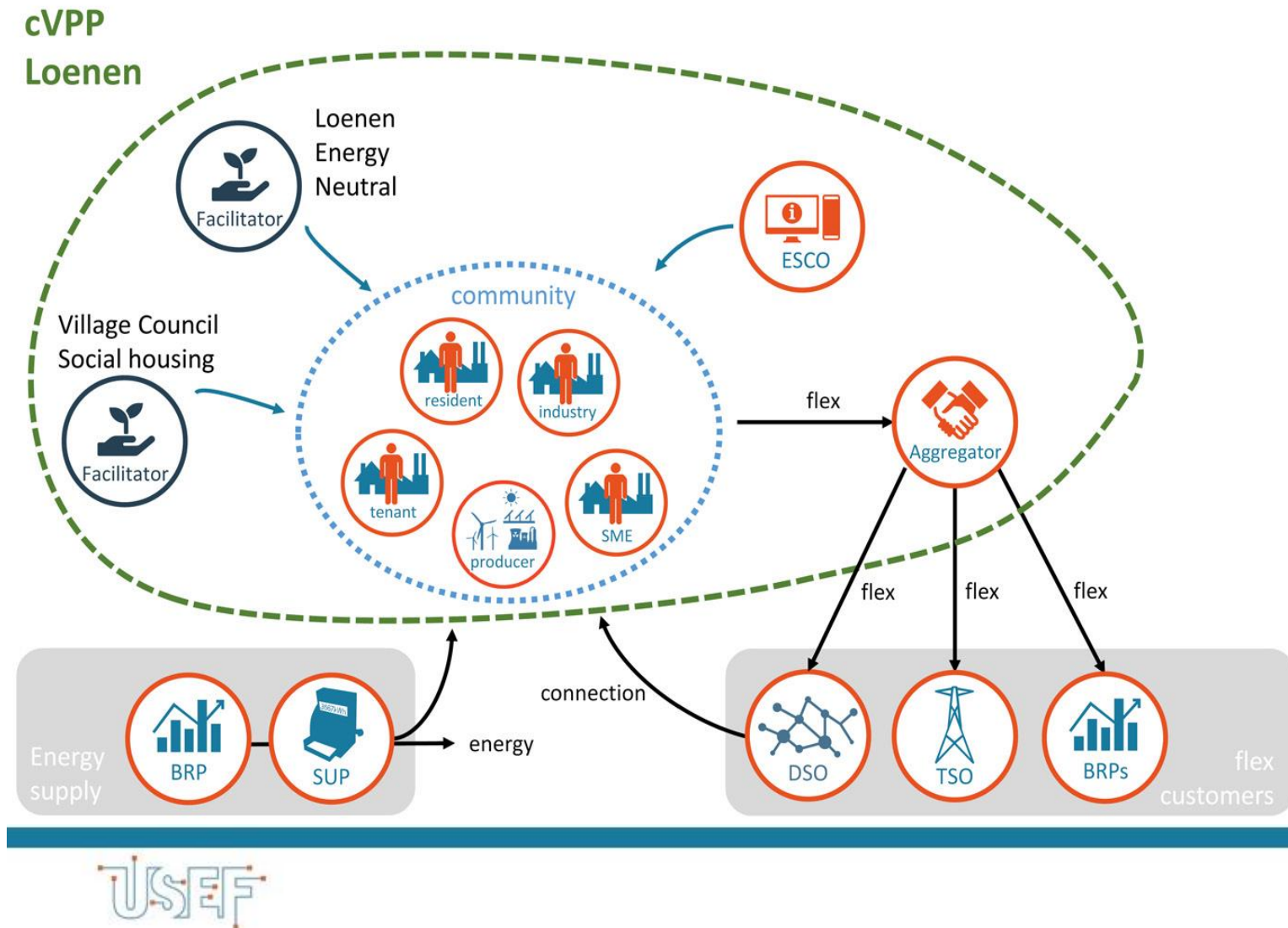
➔ This provides opportunities for municipalities to take on a role in generating, using and distributing renewable energy together with residents and energy cooperatives.



Quadruple Helix Model



Loenen | community as Energy Service Company (ESCo)



3 aspiring cVPP communities in prov.Antwerp



Examples of possible energy communities:

- Apartment building
- Co-housing project
- Citizen's cooperative or association.
- Group of people linked by one or more common goals (cultural, religious, sporting, etc.)
- District, neighbourhood, village, municipality or city
- Energy cooperative

Who is the energy community?

An energy community can be based on **an existing community** which may decide to play a more active role in the energy market, while engaging their fellow citizens.

➤ The **cohousing Gummaar** in Mechelen



Who is the energy community?

A **municipality** may decide to organise itself around energy. In this way, it can become more independent in terms of energy supply, play a role in the energy market and inspire **or be inspired by** its citizens to action.

- The **municipality Bonheiden**, together with **energy cooperative Klimaan**.



Who is the energy community?

The neighbourhood comes together to organise itself around energy. In this way, it can play a role in a fair energy transition and become more independent in terms of energy supply.

- Example **Stalinsstraat, city of Antwerp**, together with energy cooperative **ZuidtrAnt**.



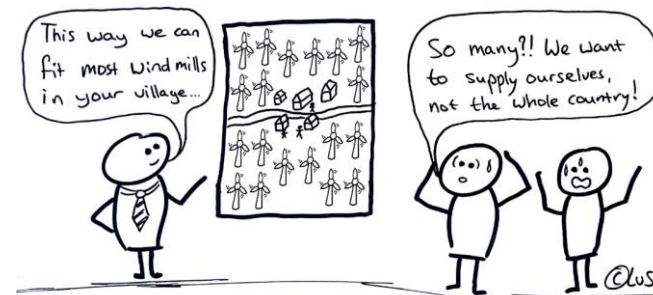
What distinguishes energy communities from commercial projects?

- The community involvement
- the needs and motivations of the community → **values & goals**
- the logic under which it operates.

This **community logic** implies that:

1. the initiative comes from the community
2. the community is the owner of the various resources and the ICT platform
3. the members decide collectively and choose how to organise themselves.





Community Logic

Community needs and motivations

Ownership

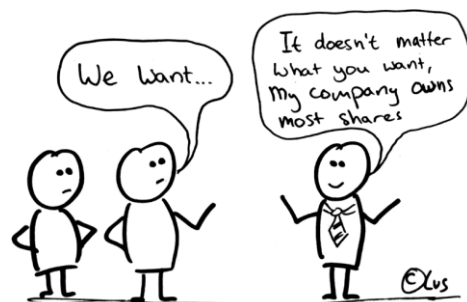
Control

Distribution of costs, benefits and risks

Active involvement

Open and inclusive

Scale



A community-based VPP aims at

value creation *for* and *by* the community

This is only possible if the community is involved.



Social value creation related to the community



**Environmental value and decarbonisation
of our energy system**



Economic value creation for the community

Starter's guide

Community-based Virtual Power Plant

START





Contents

[i COLOPHON](#)

KNOWLEDGE

CH1 | Why cVPP ? ▶

CH2 | Take your energy into your own hands ▶

From passive consumer to cVPP

H3 | Wat is cVPP ? ▶

... and what can it mean for
energy communities?

- **Crash course 1** | What is a cVPP?
- **Crash course 6** | Community engagement practices

CH4 | The energy market in transition ▶

... and the future for energy communities?

- **Crash course 2** | History of the energy market
- **Crash course 3** | EU Energy Policy

CH5 | Energy flexibility ▶

... and what role can an energy
community play?

- **Crash course 4** | Energy flexibility
- **Crash course 5** | Energy Market Roles

PROCESS

CH6 | The MoRe model ▶

- How does a cVPP contribute to the vision of the community?
- What does cVPP look like for your community?
- What is needed to realize a cVPP?

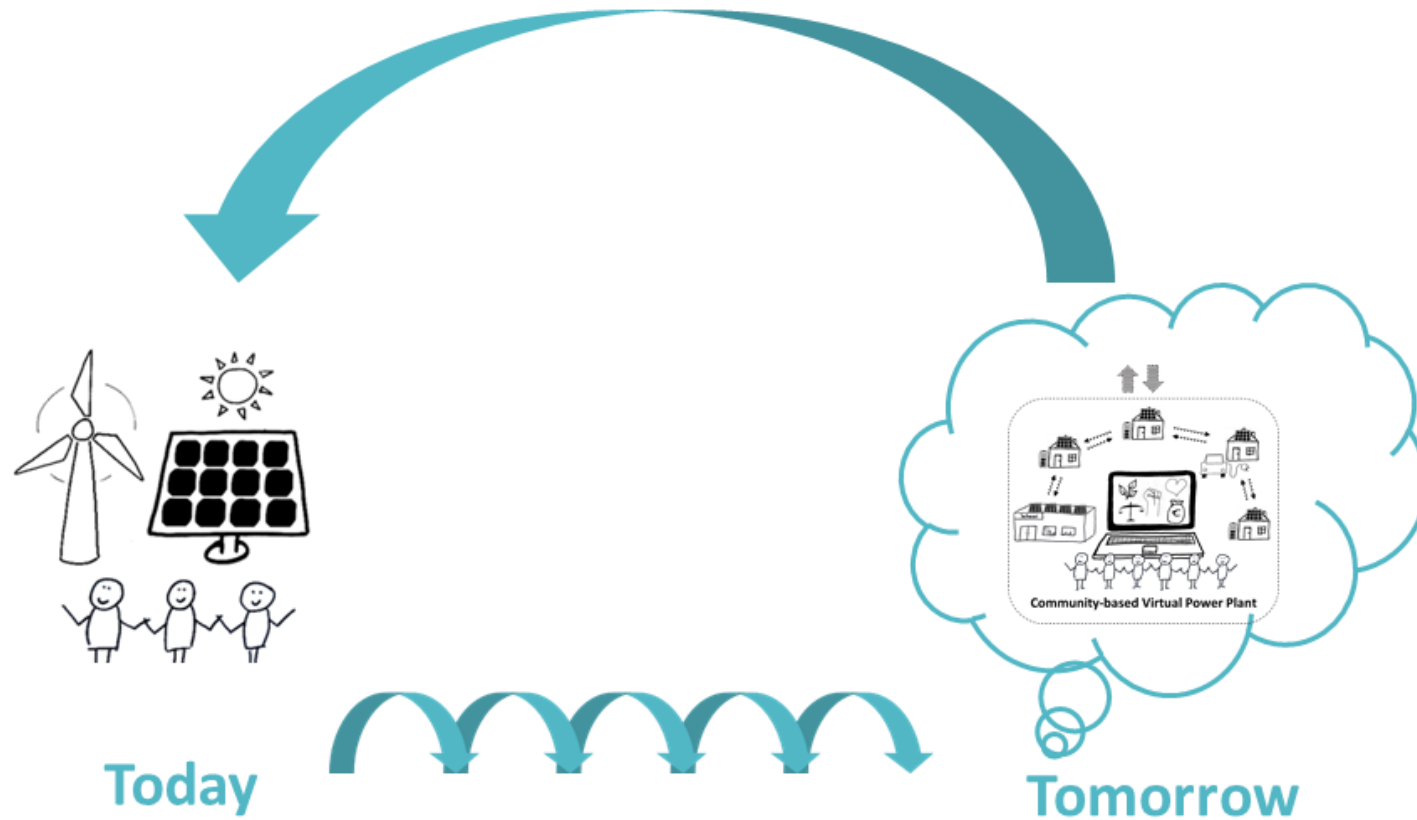
A process guidance instrument for your energy community.

- **Crash course 6** | Community engagement practices

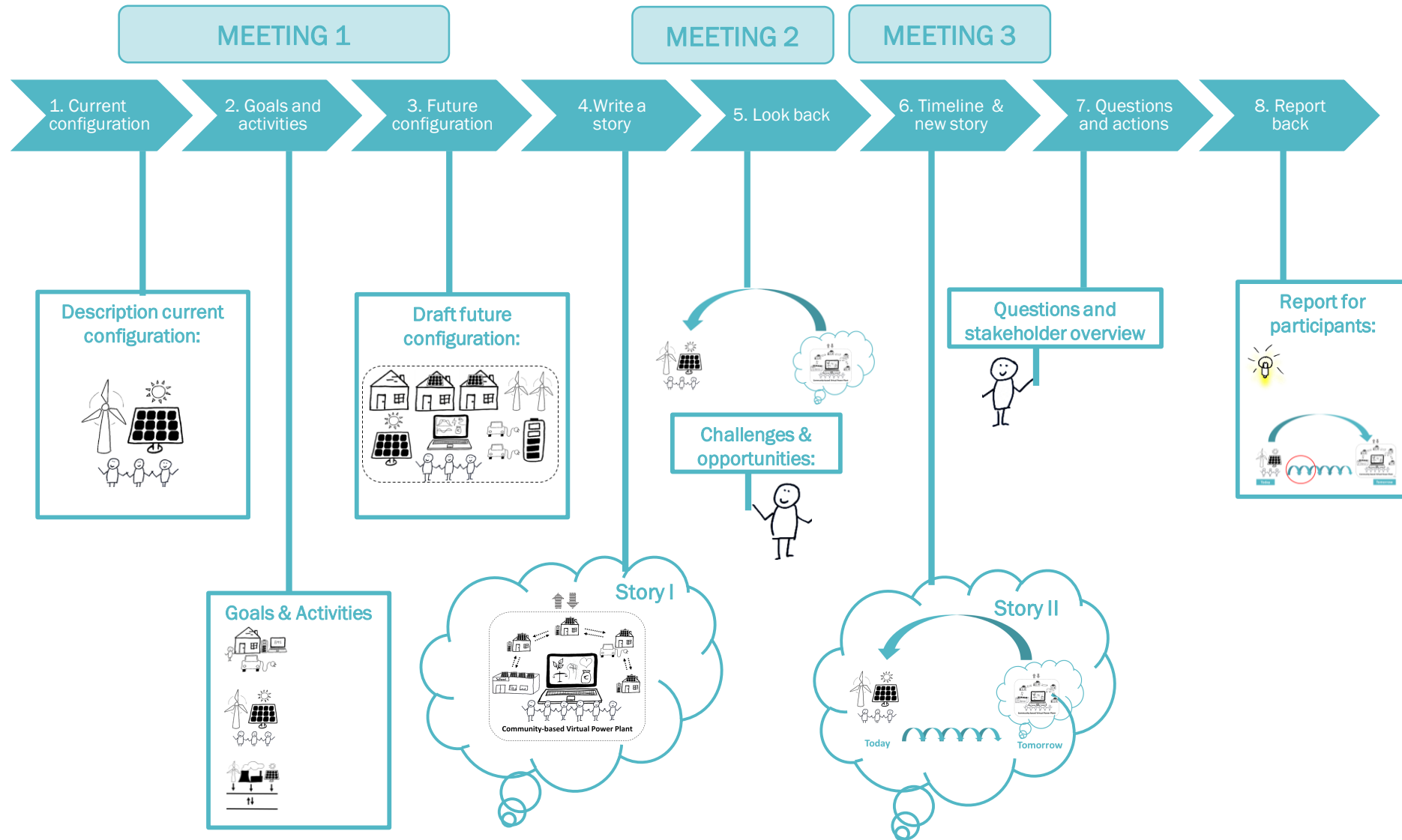
TOOLS

Documents, that can be filled in as part of the co-creation process, to enable you to contextualise the cVPP options for your community.

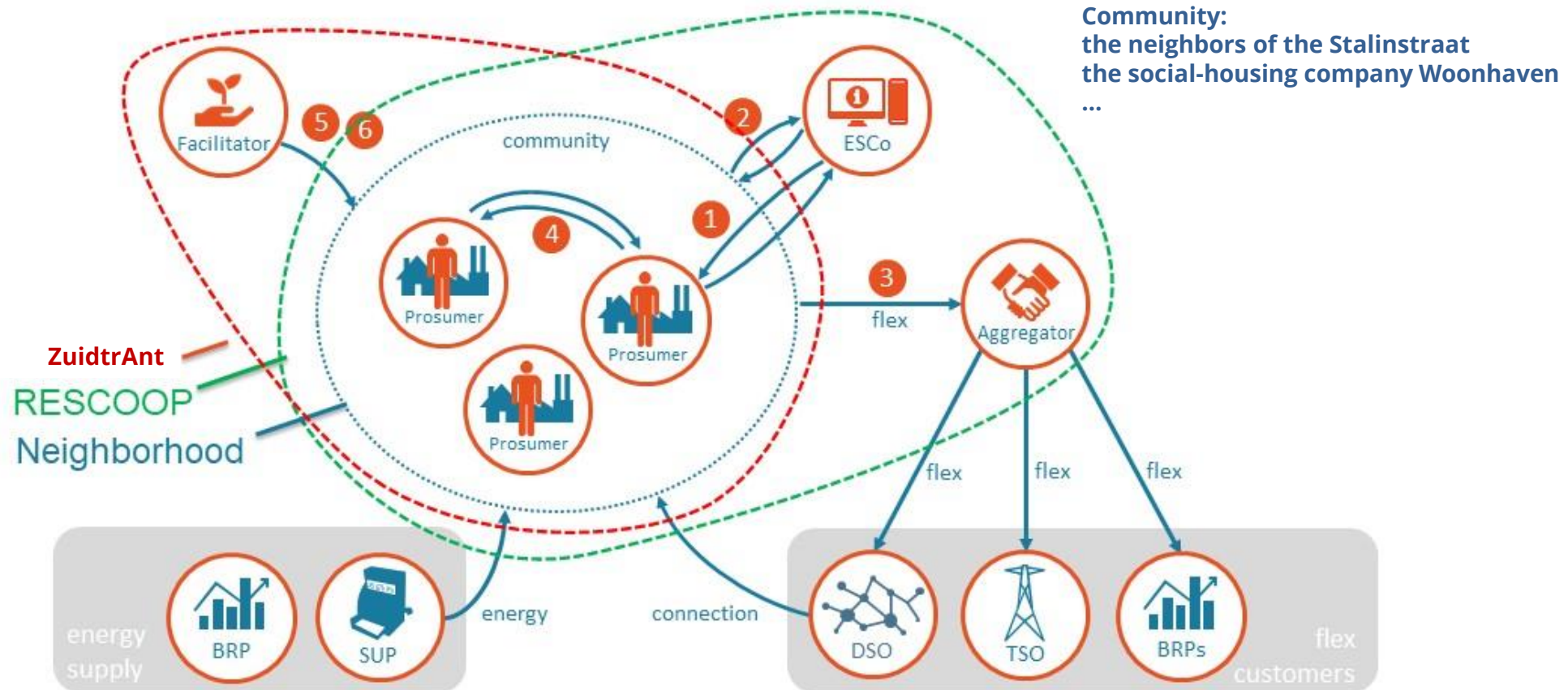
Starter's guide | Interactive Backcasting



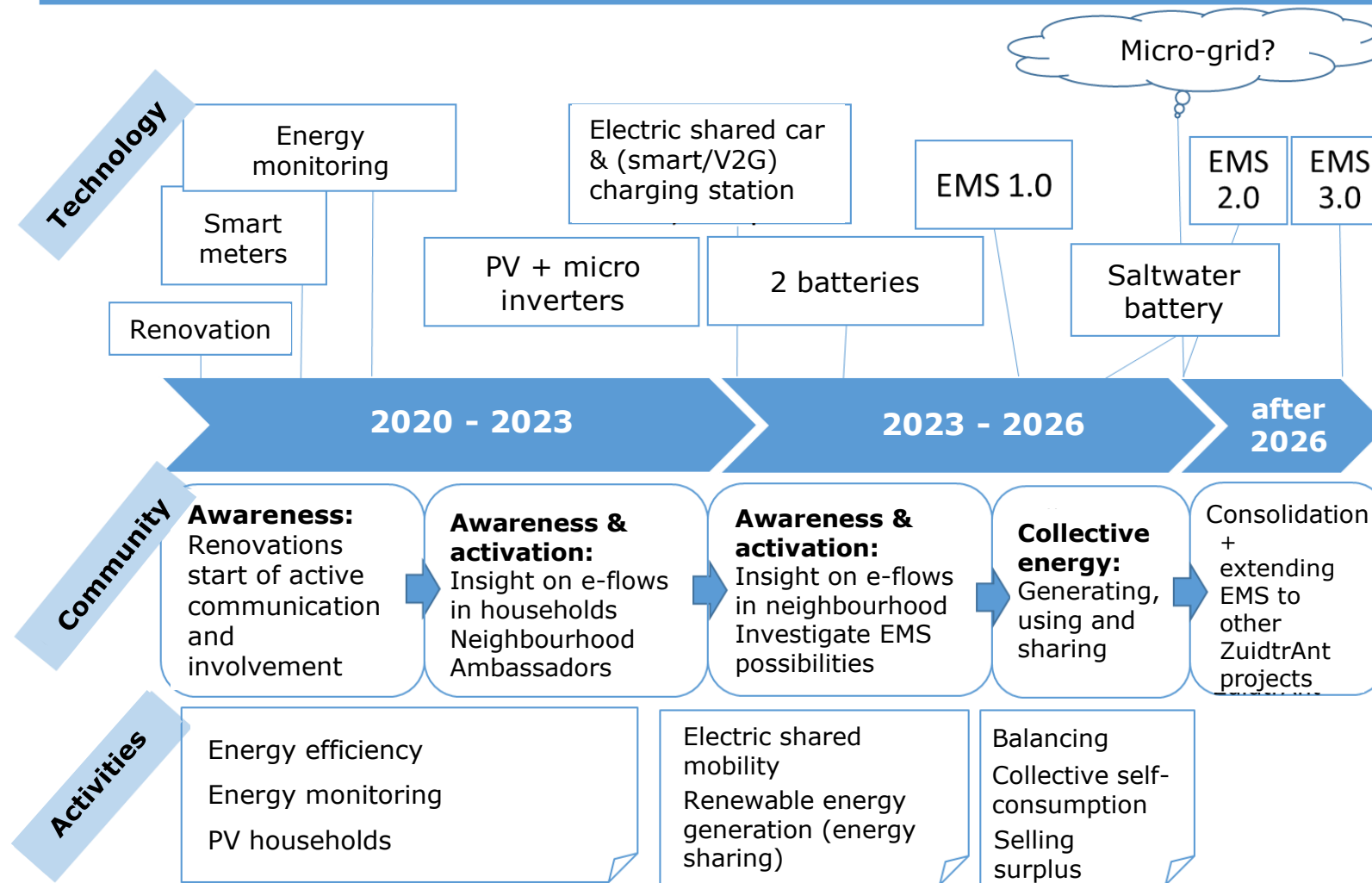
Starter's Guide | Process Overview



ZuidtrAnt as facilitator in the Stalinsstraat



Roadmap Stalinsstraat & ZuidtrAnt



The starter's guide | a tool for process moderators

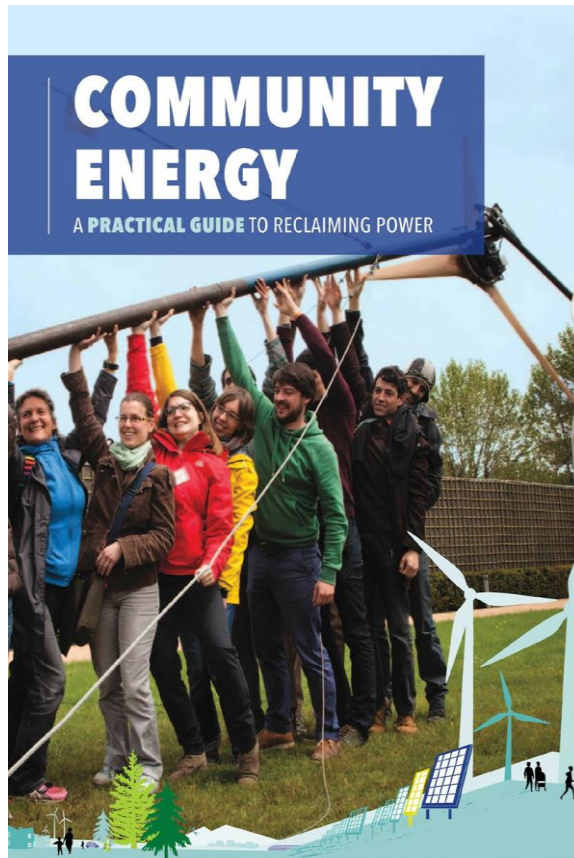
This starter's guide is aimed at **process moderators** (intermediaries) who want to support **energy communities** taking their first steps in exploring the possibilities of a community-based Virtual Power Plant (cVPP).



These **process moderators** or intermediaries could be:

- initiators or frontrunners of a project within a community;
- active board members of a cooperative;
- pioneers in a neighbourhood;
- other enthusiasts who invest time and energy in building the energy community.

The future is bright for energy communities



The EU calls to action !



Smart and just energy transition

- * Within the priority Smart and just energy transition, two objectives are anticipated. Please tick the one(s) you are **most interested in**.

The number of questions you will be asked to answer depends on the number of objectives you tick. Please focus on your main area(s) of interest.

- ☐ Promoting energy efficiency and reducing greenhouse gas emissions
- ☒ Promoting renewable energy

Promoting renewable energy

- * The following fields of interest have been identified for the objective Promoting renewable energy. Please tick the one(s) you are **most interested in**.

The number of questions you will be asked to answer depends on the number of fields of interest you tick. Please focus on your main area(s) of interest.

- ☒ Supporting community-led renewable energy production
- ☐ Promoting renewable energy entrepreneurship
- ☒ Stimulating decentralised renewable energy production
- ☐ Strengthening the qualifications of workers for decentralised energy production and management
- ☒ Empowering energy communities and self-consumers
- ☐ Enhancing innovative renewable energy production in rural areas
- ☐ Increasing the use of renewable energy sources in peri-urban areas
- ☐ Enhancing renewable energy utilisation for transport and mobility

Upscaling energy communities through cVPP

Supporting local authorities | Energy communities (pilot project Zoersel)

We provide support to communities that want to generate and manage renewable energy themselves.

cVPP (community-based Virtual Power Plant) gives a local community the tools to explore **its own energy needs** and to experiment with the exchange, storage and management of renewable energy.

Such a **bottom-up approach** leads to greater participation and influence of the local community and stimulates awareness and public involvement in the energy transition.

Join Kamp C and the municipality of Zoersel !

- Is there interest from the municipalities ? **Yes**
- Is there interest from energy cooperatives ? **Yes**
- Is there a future for energy communities ? **Yes**
- Are new European projects possible 2021 - 2027 ? **Yes**

Our question to you is :

- Are you intrigued and want to know more?
- Do you want to work with us to make more citizens' energy communities possible?



Get in touch with us:
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jet.groen@kampc.be

