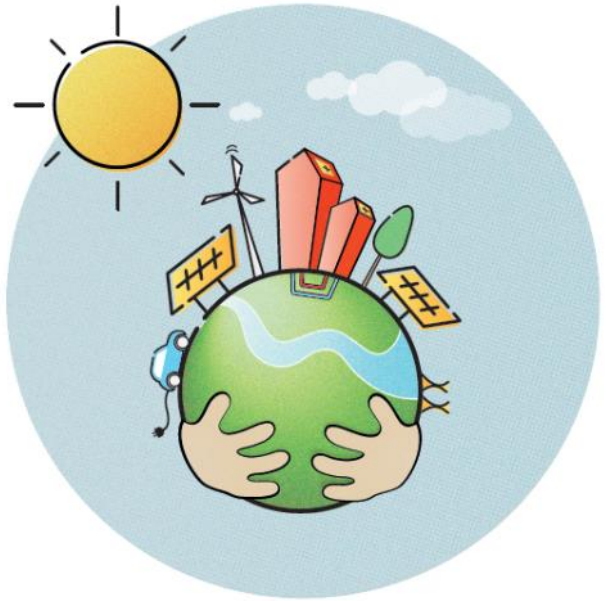
LECSEA Final Conference
26 January 2023

Use cases on the role of citizens and SME's in energy communities

Interreg 2 Seas Mers Zeeën
LECSEA
European Regional Development Fund

Citizen participation via Energy Communities



Philippe Awouters

#burgerenergie
#citizenenergy
#citizenoffshorepower

VLAASKRACHT
samen werken aan duurzame energie

REScoop VLAANDEREN

SeaCoop CVSO/SCES

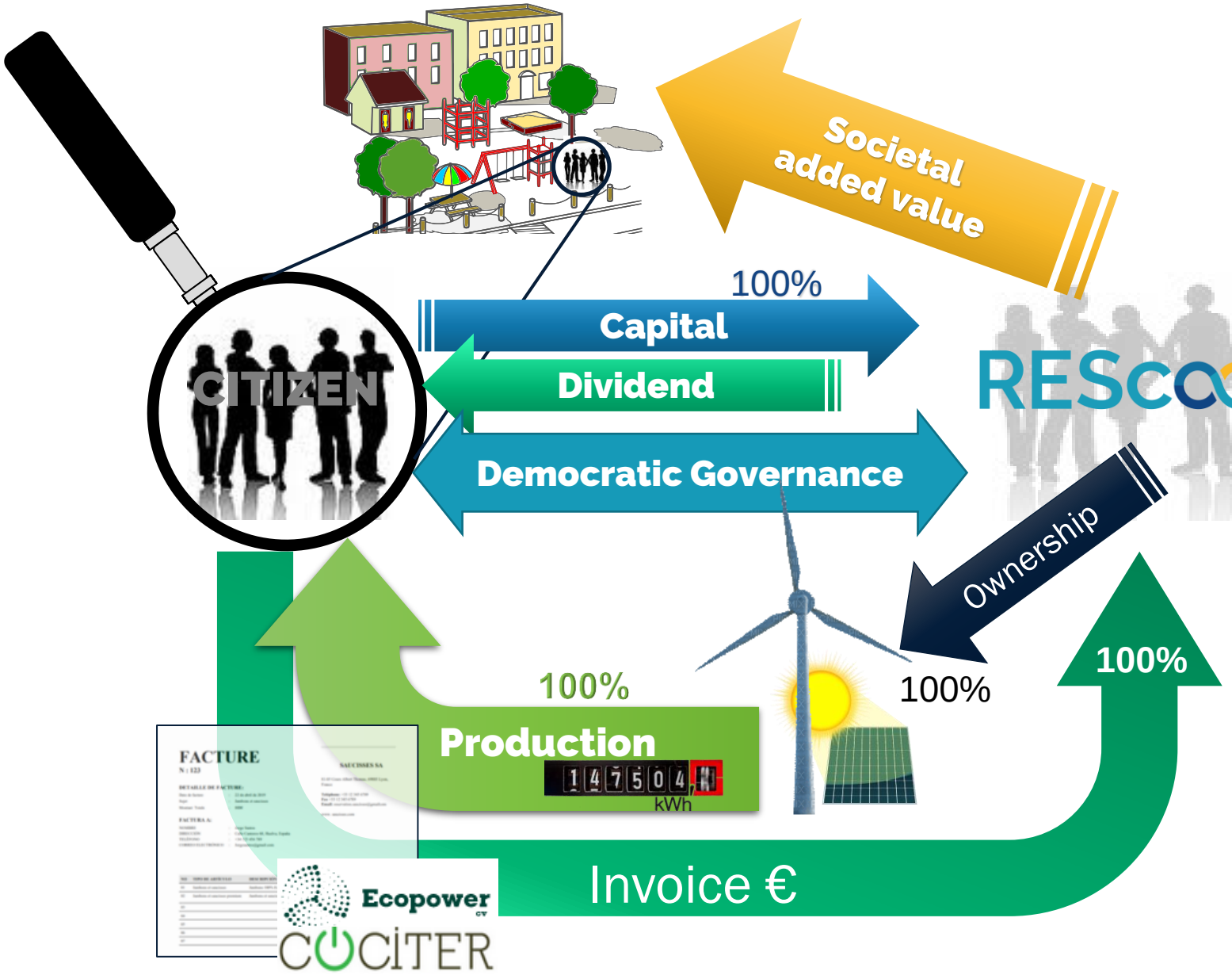
Energy Communities' Energy sharing

- Stable tariffs for energy in own hands

- Transposition of EU energy communities directives: activating citizens as energy market participants

From collective energy sharing to adding local energy sharing

REScoop Model



Autonomy and ownership with democratic member governance

- ICA Definition & Principles
- Energy Community

SeaCoop

7 ICA principles

(International Cooperative alliance)

1. Voluntary and Open Membership

2. Democratic member control

3. Member Economic participation

4. Autonomy and independence

5. Education, Training & Information

6. Cooperation among Cooperatives

7. Concern for community

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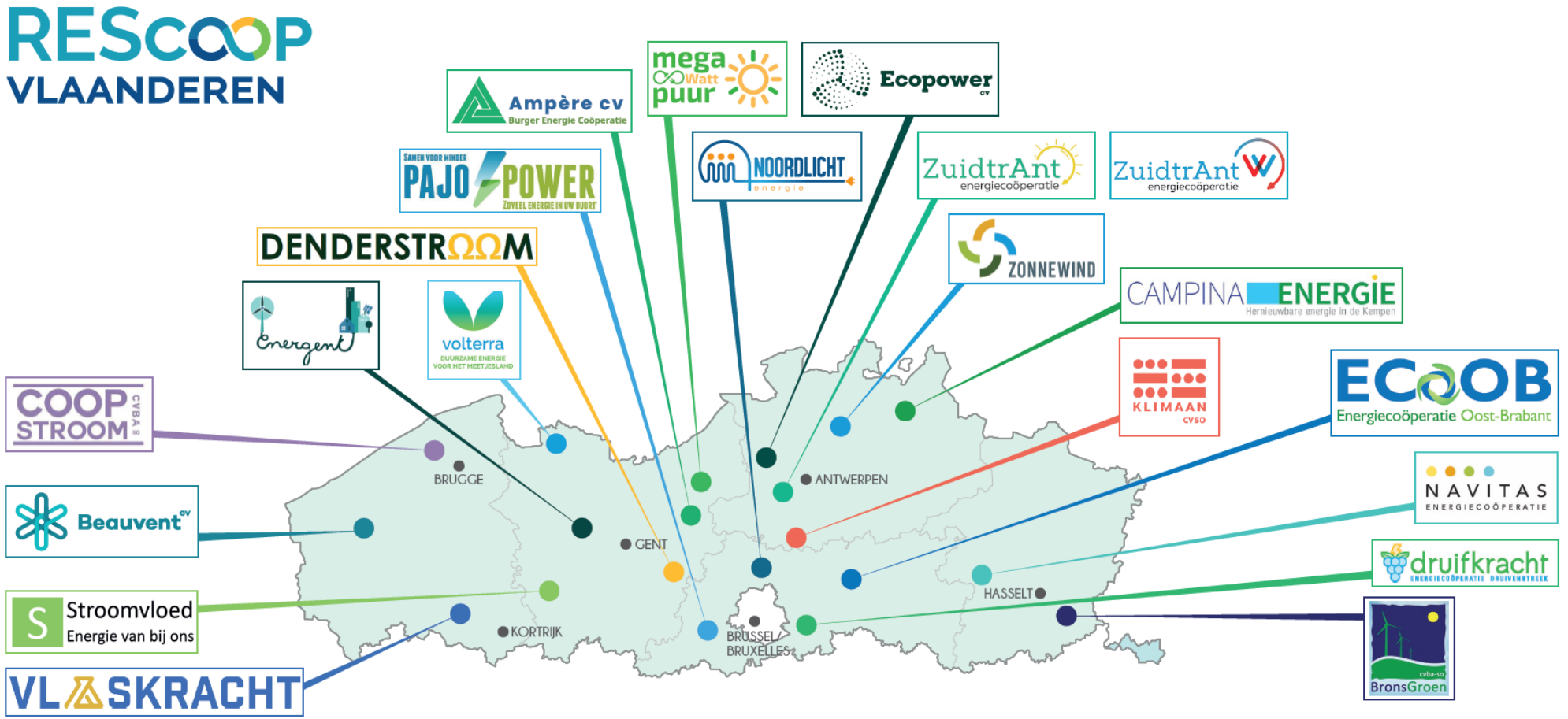
Local anchoring through Renewable Energy Communities



SeaCoop
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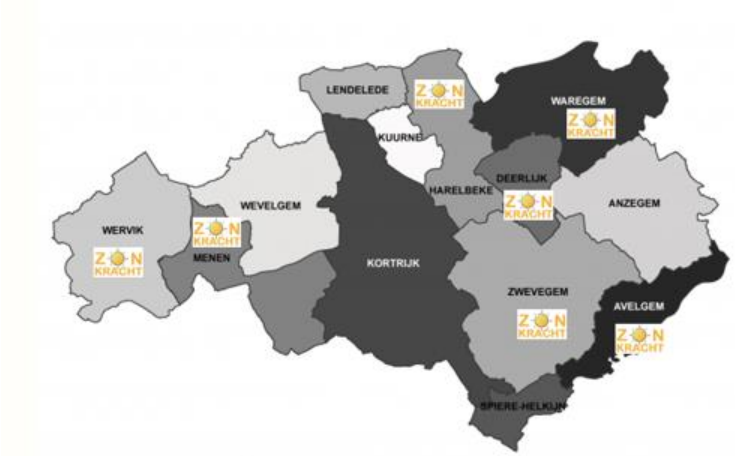
Vlaskracht

VLAASKRACHT
samen werken aan duurzame energie



ZON KRACHT

SeaCoop
CVSO/SCES

RESCOOP VLAANDEREN

100% LOCAL SUSTAINABLE power

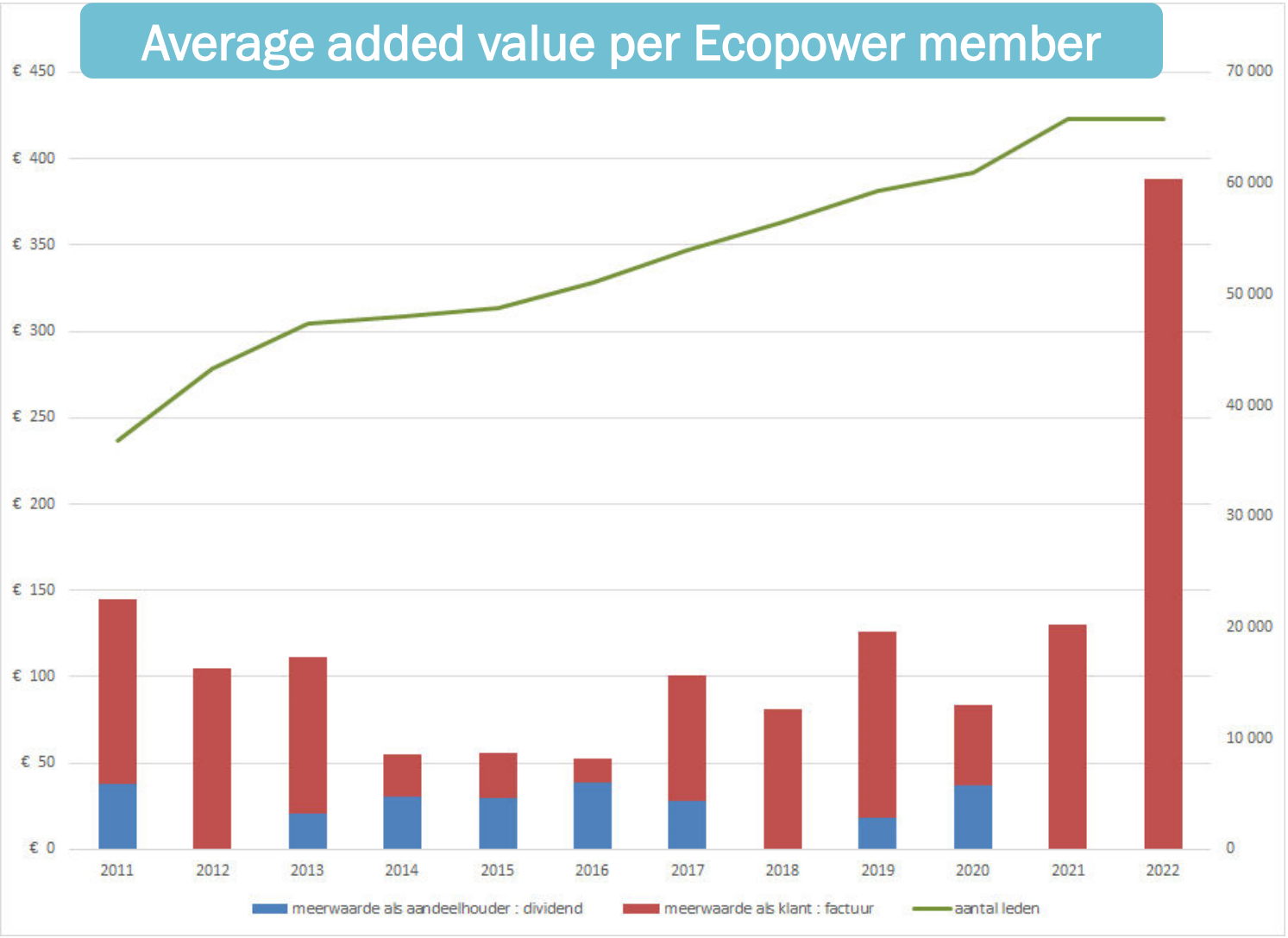
by and for citizens

➔ Collective energy sharing

powered by VLASKRACHT

Ecopower cvba

Added value creation through cooperative energy supply



Dividend added value as shareholder

Bill added value as customer

# of members

User > shareholder

Factor 3 on average

1 cooperative windturbine yearly creates +/- 1 Million € added value for wind sharers

SeaCoop

Flanders wants to foster new possibilities for energy sharing

LOCAL ENERGY SHARING

- EC with citizens, local authorities and companies
- Legal structure to be established

  ➔ multiplication of “cooperatives”
- No gain in distribution network costs
- Registration and administration

Different ways of fostering

	Citizen 1to1	Citizen shared	Citizen collective	Business parks
Use	1. With second home /apartment 2. with family / friends 3. Peer2peer sale	PV on Appartment building	Citizen or local authority shares roof with neighbours	1. Use roof of neighbour 2. Energy sharing within industrial park / with surrounding citizens
Legal structuring	No need	No need	Burden	Burden
Gain in use maximisation	OK	Questionnable	Questionnable	OK
Gain in costs for distribution network	No gain	No gain	No gain	~~No gain, except for direct line to neighbour~~

SeaCoop

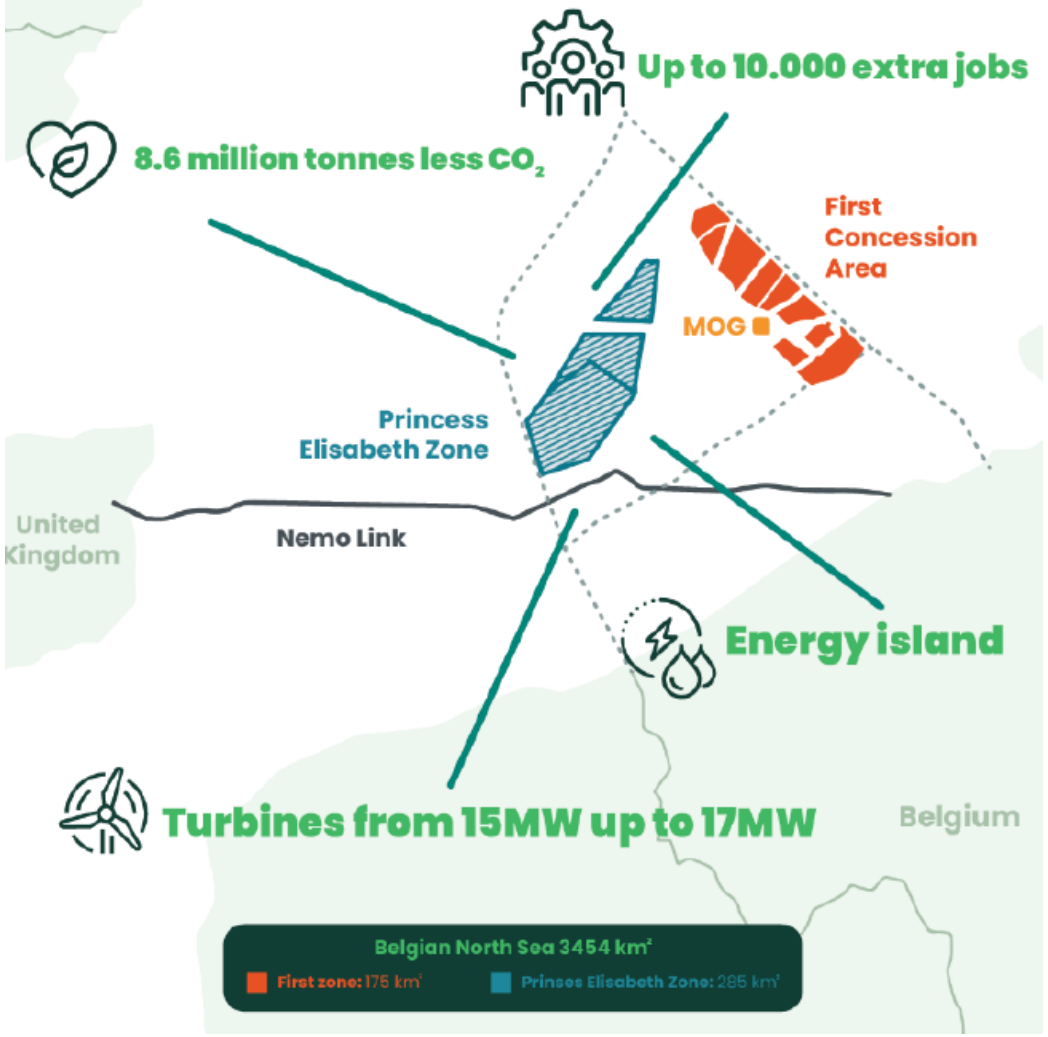
The fostering brings little added value…

	Citizen 1to1	Citizen shared	Citizen collective	Business parks
Use	1. With second home /apartment 2. with family / friends 3. Peer2peer sale	PV on Appartment building	Citizen or local authority shares roof with neighbours	1. Use roof of neighbour 2. Energy sharing within industrial park / with surrounding citizens

➔ Easier via collective cooperative energy sharing

North Sea power for every Belgian family

From 2,2 GW to 5,8 GW



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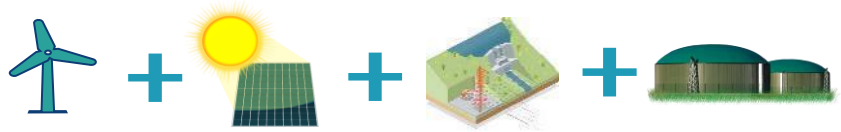
Allowing Belgian citizens to participate economically in offshore windturbines of the new Princess Elisabeth concession zone: capital contribution and energy purchase.

INTEGRATE OFFSHORE ADDED VALUE IN OUR CURRENT SERVICES

Production



Energy Supply

Ecopower cv

CÖCITER

Heat supply

coopeos
Biomasse locale pour une chaleur durable

WARMTE VERZILVERD

WARMTENET OOSTENDE

Electric Car Sharing

cedan
COÖPERATIEF ELEKTRISCH DEELAUTO NETWERK

THE MOBILITY FACTORY

Purchase guidance solar panels

PHOTOVOLTAÏQUE POUR TOUS

ZONNEWIJZER

Renovation

WIJKWERF

CORENOVE
COOPÉRER RÉNOVER

Social just energy transition

BUURZAME STROOM

BURGER ENERGIE

Energy monitoring & studies

energieID

RESCOOP VPP

RESCOOP MECISE

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JOINT SPECIFIC OFFSHORE CVSO

SeaCoop cvso founded on April 15th:

SeaCoop CVSO/SCES

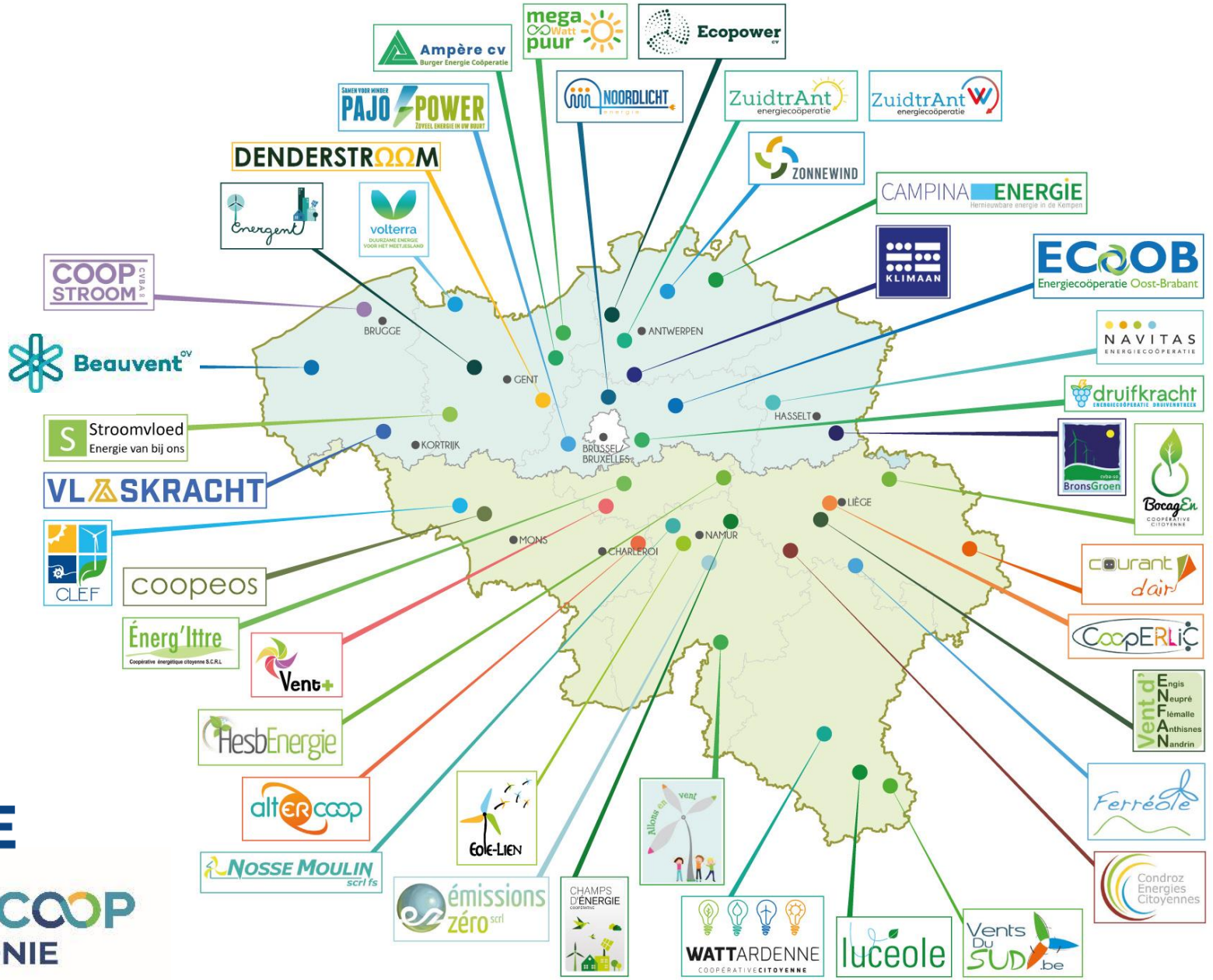
Your cooperation participates!

Participation

- According to ambition level
- Capital of @ 5.000€ per tranche of 5M€ citizen capital
- Participation in tender costs: depending on tender procedure

34 REScoops Shareholder

SeaCoop
CVSO/SCES



RESCOOP.BE

RESCOOP VLAANDEREN

RESCOOP WALLONIE

REC possibilities in Tenderprocedure

		Means
Maximize chance to participate		REC Points “Multigrain”-possibility via Memorandum of Understanding:
Energy use at stable tariff		CooPPA: Cooperative Purchasing Power Agreement, in case of Contract for Difference via Carve out
Minimalize risk for the citizen		- Autonomy & ownership - Bank- en build guarantees - Balancing en demand side management

Harvest #citizenoffshorepower

Sea2Socket

Offshore energy use at stable tariff

- Cooperative renewable energy: shareholder and user are the same person, so there is no need to make a profit on the energy supply.
- Too few production possibilities, not too little capital
- Acceleration of energy transition: consumer confidence provides multiplier effect for acceleration of electrification

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CVSO/SCES

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VLASKRACHT

Pas-de-Calais habitat

Interreg 2 Seas Mers Zeeën
UNION EUROPÉENNE
Fonds Européen de Développement Régional

CD2e ACCÉLÉRATEUR DE L'ÉCO-TRANSITION

L'autoconsommation collective dans le logement social

Collective self-consumption in social housing

26.01.2023 - Pas-de-Calais habitat

PARTIE 1

LECSEA en pratique : regard de proximité sur les impacts sociaux du projet

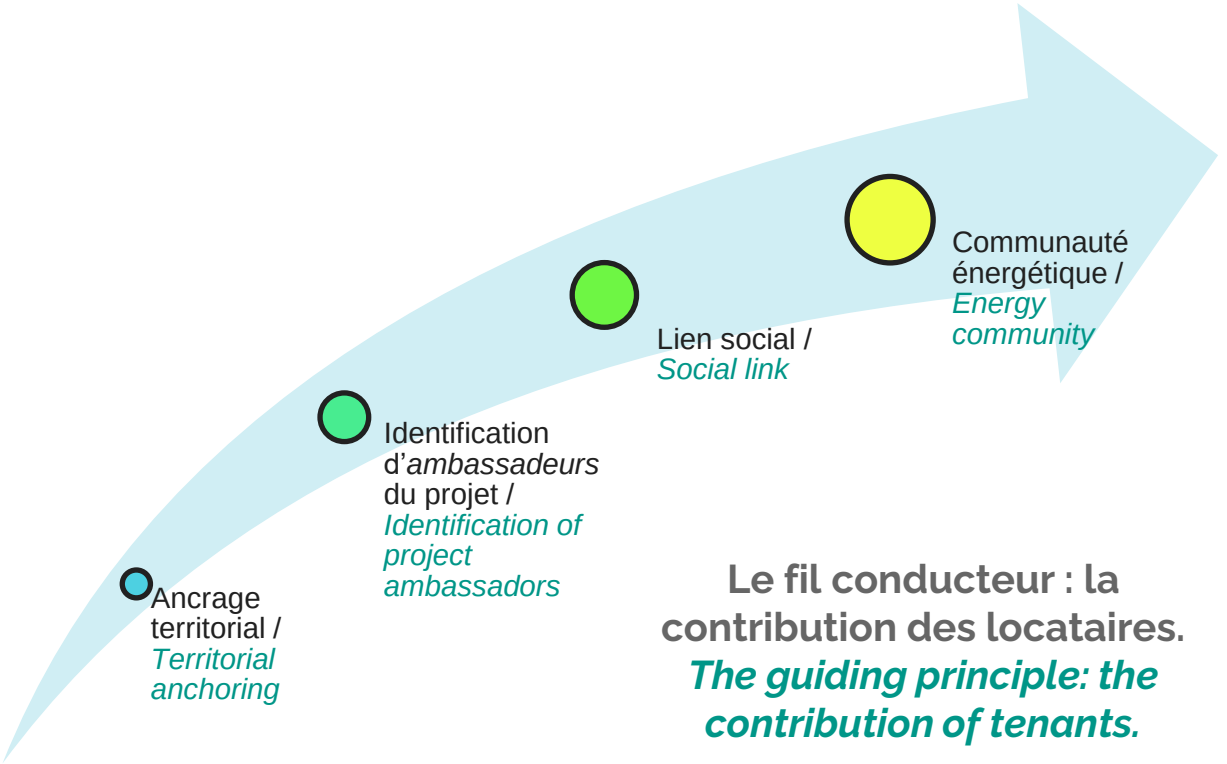
LECSEA in practice: a close look at the social impacts of the project

26 janvier 2023 - Pas-de-Calais habitat

Intervenant
Speaker

Sébastien BERLY
Responsable d'agence
Agency manager

LECSEA, créateur d'une « communauté » énergétique
LECSEA, creator of an energy "community"



Le fil conducteur : la contribution des locataires.
The guiding principle: the contribution of tenants.

Le projet LECSEA : un projet porteur du principe de Pas-de-Calais Habitat d'**inclusion** et de **participation active** de ses locataires. Pour l'office, il s'agit de faire vivre le projet grâce aux **locataires** qui sont **porteurs** du projet.

The LECSEA project: *a project that reflects the Pas-de-Calais Habitat principle of* ***inclusion*** *and* ***active participation*** *of its tenants. For the office, it is a question of bringing the project to life thanks to the* ***tenants*** *who are the* ***project's promoters****.*

PARTIE 1 : LECSEA en pratique
LECSEA in practice

La participation de nos locataires, l'un des piliers du projet LECSEA

The participation of our tenants, one of the pillars of the LECSEA project

Le fil conducteur : la contribution des locataires.

Les moyens employés / *Means used*

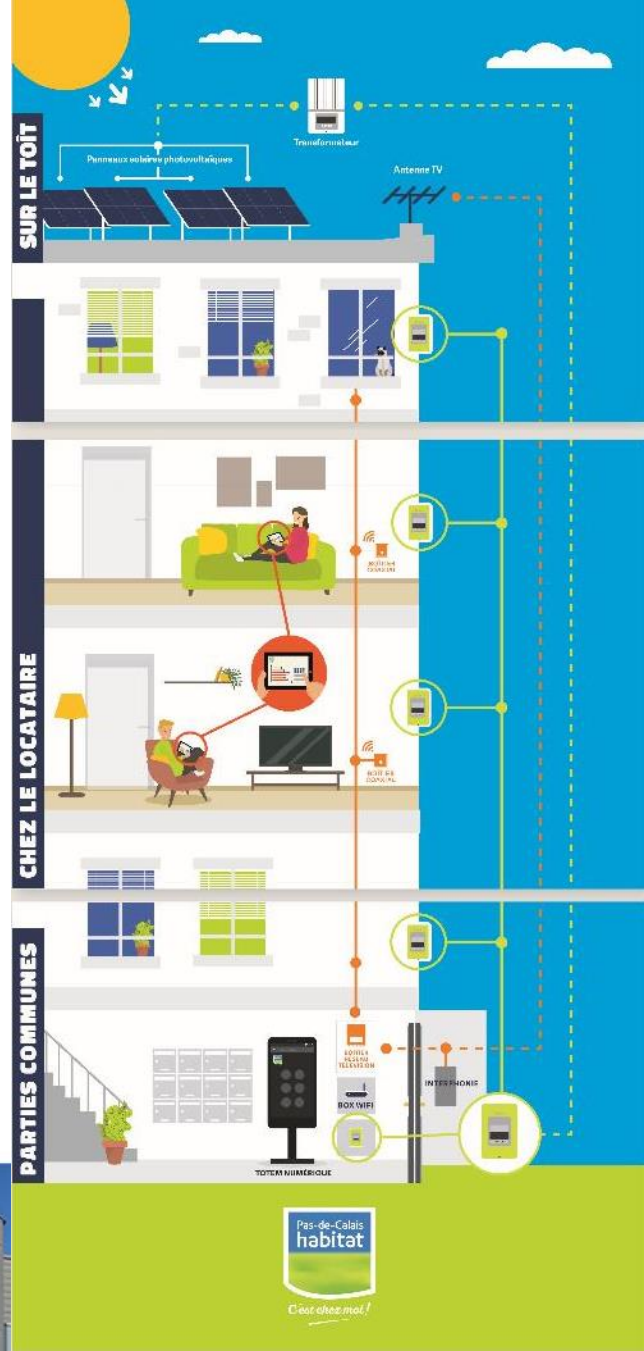
- Acteurs porteurs (*ambassadeurs*) / *Promoters (ambassadors)*
- Ateliers informatifs / *informational workshops*
- Personnel de terrain : responsable de site, gardien, agents de proximité / *Nearby staff: site manager, community workers and gatekeeper*

Les résultats / *Results*

- Réseau d'entraide locale / *Local self-help network*
- Des usagers adhérents au projet (200 locataires sur un total de 232) / *Users who are members of the project (200 tenants out of a total of 232)*
- 20 à 30% de réduction sur la facturation électrique de nos locataires / *20 to 30% reduction in our tenants' electricity bills.*

Nos perspectives / *Prospects*

- Pérenniser la vie de la communauté énergétique locale / *Sustain the life of the local energy community*
- Assurer une offre locative économique et socialement convenable. / *Ensure an economic and socially appropriate housing offer.*



PARTIE 1 : LECSEA en pratique
LECSEA in practice

Nos locataires témoignent

Our tenants tell us

Mme Gressier

Une chance pour nous car on va pouvoir faire des économies et ce sera écolo

We are lucky because we will be able to save money and it will be environmentally friendly.

Mme Couvelard

C'est bien que l'on pense à nous et on va pouvoir faire des économies

It's good that we're being considered and we'll be able to make savings.

Interreg

UNION EUROPÉENNE

2 Seas Mers Zeeën

LECSEA

Fonds Européen de Développement Régional

Couple

On est contents, mais curieux de voir si vraiment ça fonctionne et si vraiment on va gagner de l'argent.

We are happy but curious to see if it really works and if we will really save money.

CO_2

Technologies à faible émission de carbone

BUDGET TOTAL DU PROJET :

€ 960.000

Y INCLUS UN

La nouvelle législation a donné aux citoyens, aux entreprises et aux organisations collectivités locales, le pouvoir de former leurs propres "communautés d'énergie" pour produire, stocker et partager collectivement l'énergie au niveau local. Ce nouveau cadre législatif permettra d'accélérer la décarbonisation, de donner aux communautés la maîtrise du coût de l'énergie et de réinvestir les bénéfices dans de nouveaux outils de production et services liés à l'énergie. Grâce au projet LECSEA Pas-de-Calais habitat investit avec le soutien européen 960.000 euros dans le déploiement d'opérations d'autoconsommation collective.

www.lecsea.eu

www.interreg2seas.eu

Pas-de-Calais habitat

PARTI

LECSE

Pas-de-Calais habitat

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CD2e ACCÉLÉRATEUR DE L'ÉCO-TRANSITION

Merci

Thank you

Ingrid Bennett
West Sussex County Council

Local Energy Communities: Re-Energise Manor Royal

Interreg 2 Seas Mers Zeeën LECSEA
European Regional Development Fund

26 January 2023

The United Kingdom context

- The energy system is changing
- Technology advancing, solar, batteries, electric vehicles, heat pumps, district heating
- Digitalisation, AI, real time controls for a more complex system
- New markets for flexibility and demand side response

Opportunities for Local Energy Communities

Photo by Matthew Henry on Unsplash

LECSEA @ Manor Royal

Quick facts:
Over 700 businesses generating 30,000 jobs across 240 hectares

The Challenge - Energy and Carbon

I cannot install EV chargers

Energy pricing is unpredictable

Customers need a low carbon supply chain

Energy costs are rising

I want to move to net zero C

No time to look at on-site renewables

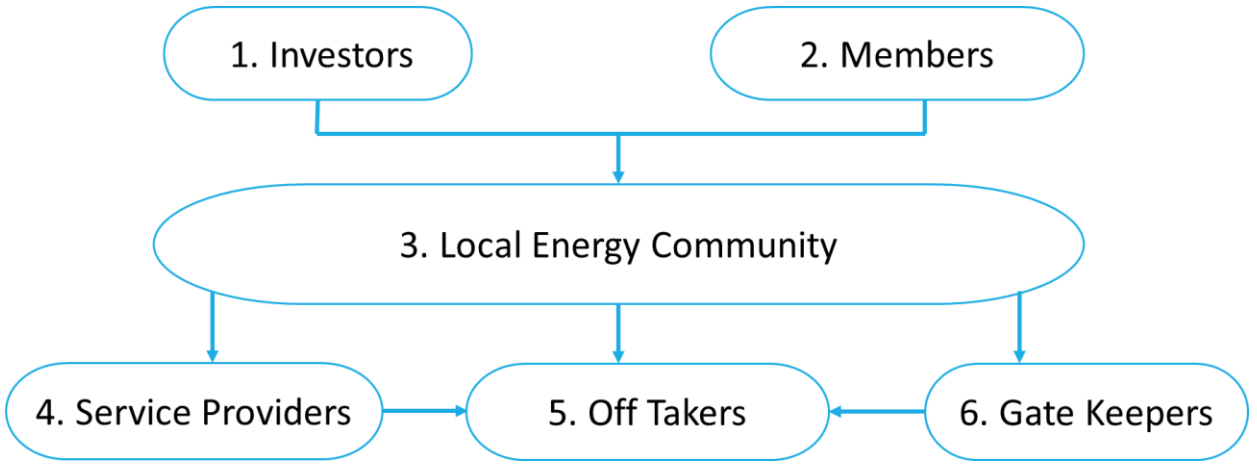
Regulation – Future Building Standard, MEES

A Local Energy Community can help

Local Energy Communities

Typical Stakeholders

- Businesses, small and large
- Business Improvement District or Business Association
- Residents
- Social housing providers
- Local Authorities
- District Network Operator
- Licenced energy suppliers



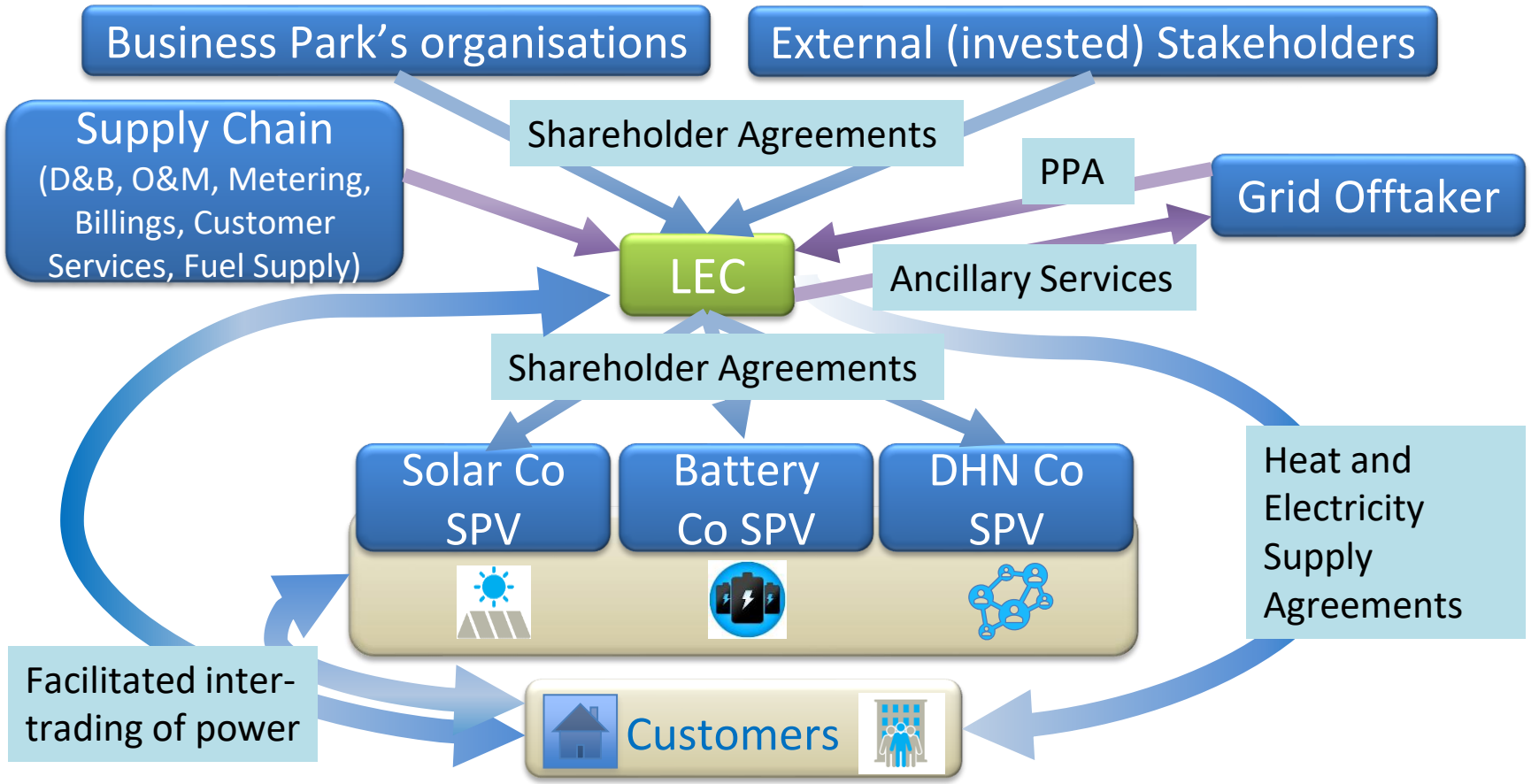
Challenge: create an investible, flexible, long term business model

What will the LEC do?

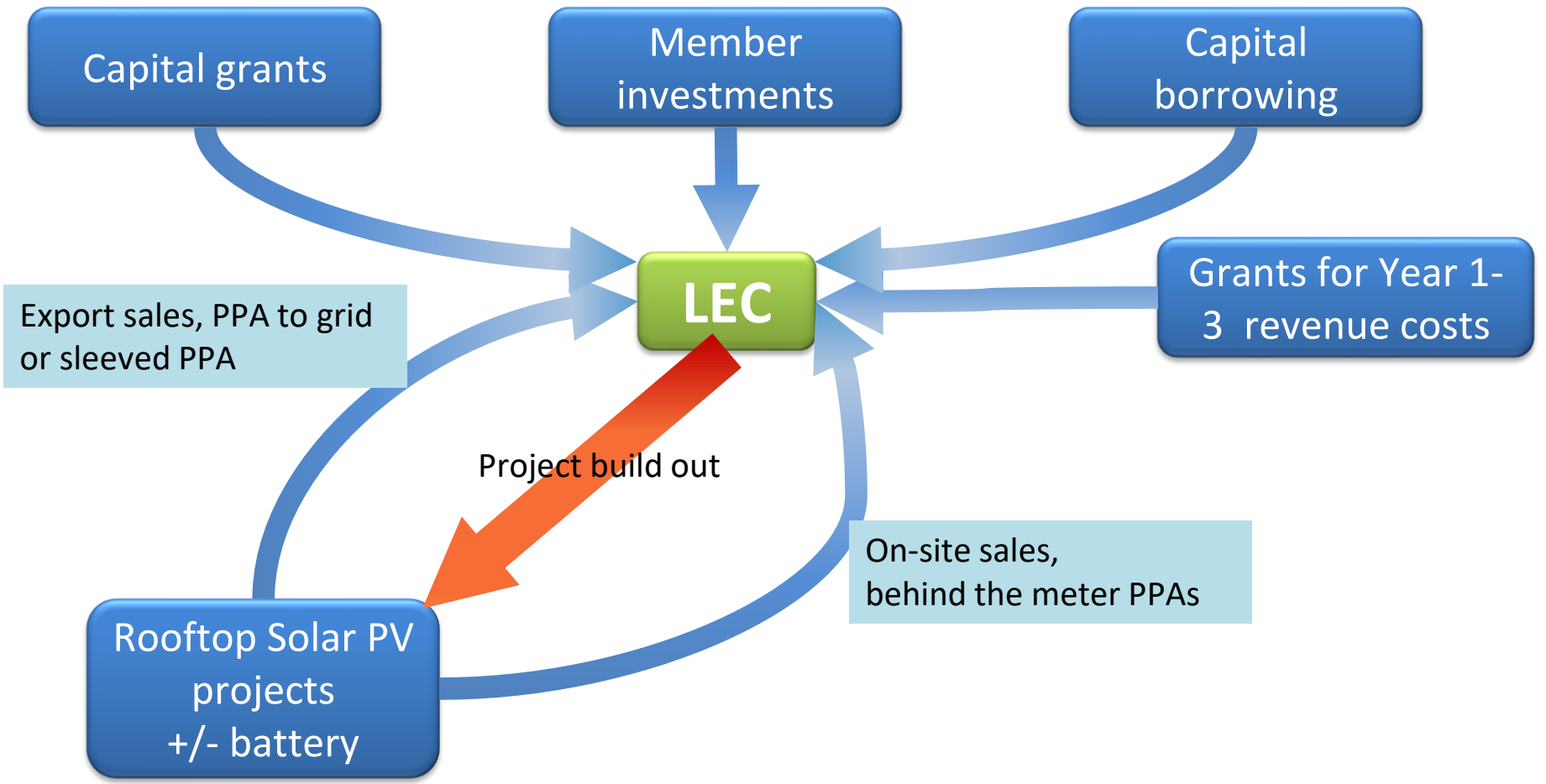
In the **long term** create an integrated local energy system

Powered by local, renewable generation

Owned and managed by its members:
Manor Royal businesses



What will the LEC do first?



Re-Energise Manor Royal

- Not-for-profit organisation
- Membership open to all businesses and citizens who invest through community share offer
- Interest paid on shares but no dividends
- Democratic – one member, one vote
- Profit retention for reinvestment and community benefit
- Can raise debt like other commercial organisations
- Management and minimisation of risk taken on by LEC members
- Asset lock to protect member companies' interests
- Clear and open exit strategies

Barriers and expectations

Barriers

- Energy market regulations
- Cannot have direct Peer to Peer trading of energy
- Landlord and tenant lease arrangements
- Lack of grid capacity in many areas
- Citizens and SMEs don’t know what is possible

Expectations

- ‘Classic’ community energy will continue to grow
- Councils will support LECs as part of net zero plans
- Many new LECs
- Local Area Energy Plans may support LECs
- Divergence from ECs as envisaged in the EU 2018 Renewable Energy Directive

Thank you for listening

Ingrid Bennett – LECSEA Project Manager

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www.westsussex.gov.uk
www.manorroyal.org/energy
www.lecsea.eu

Proceeds Wind Turbines as seed for Local Energy Communities

26 January 2023

This project has been made possible with a contribution by the European Fund for Regional Development / OP-Zuid

Wind projects Energie A16

Energie A16s first wind turbines are now fully operational

What is so special about these turbines?

Energiea16.nl

Starting point and requirement Energie A16

Fair balance of burdens and benefefits as main condition

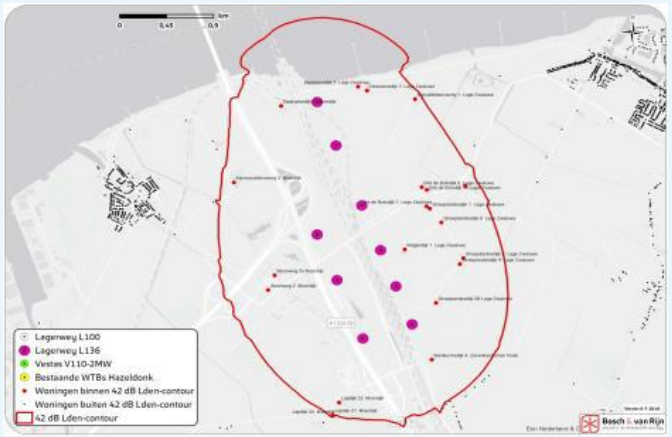
- The Province of Noord Brabant took the lead in permits & planning
- Green Deal for co-operation with 4 municipalities and private wind developers
- Local participation was a requirement from the start. Two elements:
  - 50 cents / MWh for 'neighbours' ('Burenregeling')
  - 25% local ownership dedicated to the local energy transition (Energy Tranistion Funds)

Energiea16.nl

Burenregeling

Helping the closest ‘neigbours’ making their houses more sustainable

- Selecting, approaching & activating the neighours
- Full service concept throughout the customer journey (advise, offer, financing, implementation)
- Knowledge, capital and human factor



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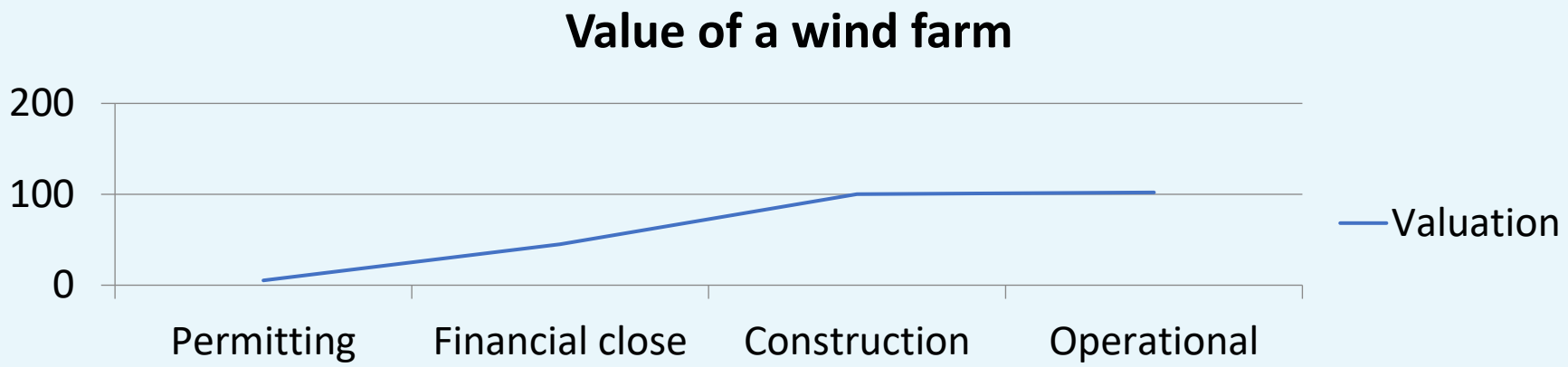
Local Participation: purpose & chalenges

Purpose: maximalision financial return from local ownership dedicated to the local energy transition



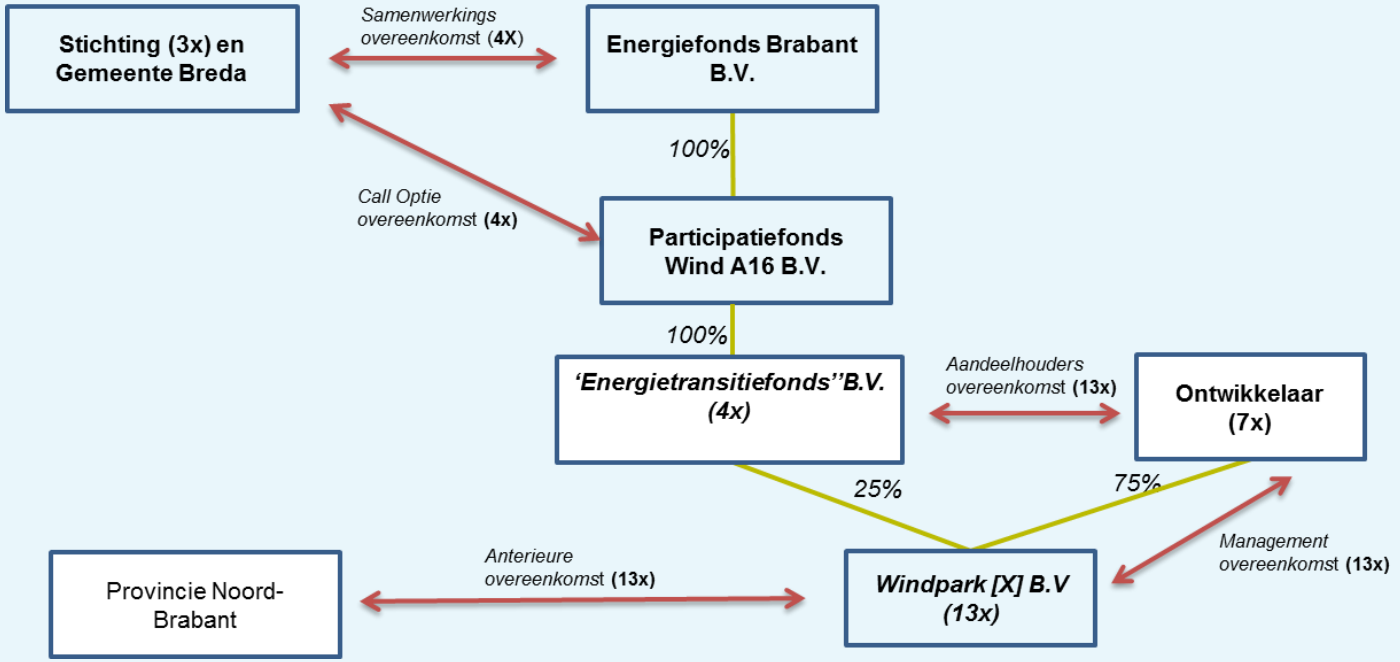
Chalenges:

- Biggest value steps during the development phase: risk capital required
- Fractionised local shareholdings is comlex, especially in developtment phase
- Regular financial participation citicens does not fit with the purpose of ‘benefits to all citicens’

Building blocks Energy Transition Funds

Risk capital, proffesional knowlewdge and active management required to optimise value / return wind farms

- Agreements BOM (Regional Development Company for Province of Noord-Brabant) with Local Foundations
  - BOM provides knowledge & capital for development & construction
  - Local Foundations in control over the proceeds dedicated to the local energy transition
- Founding of Participatiefonds Wind A16 and Energy Transition Funds
- Shareholders Agreements with private developers



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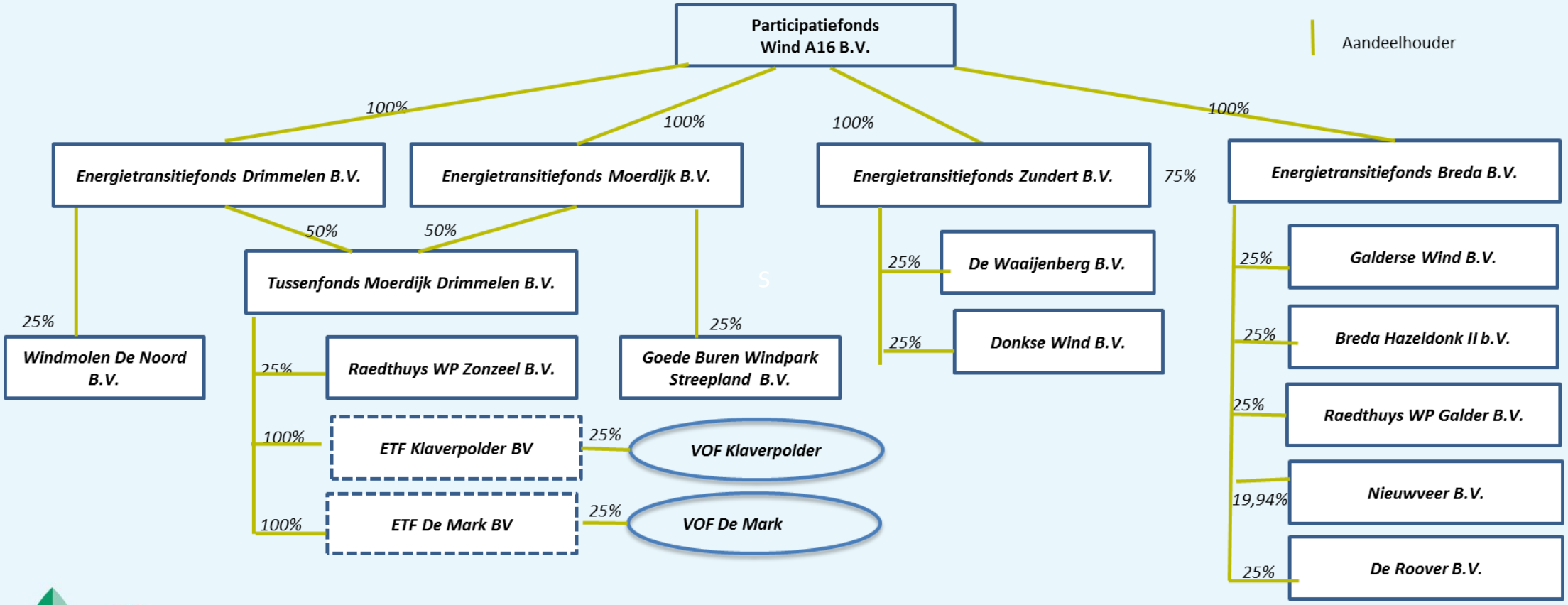
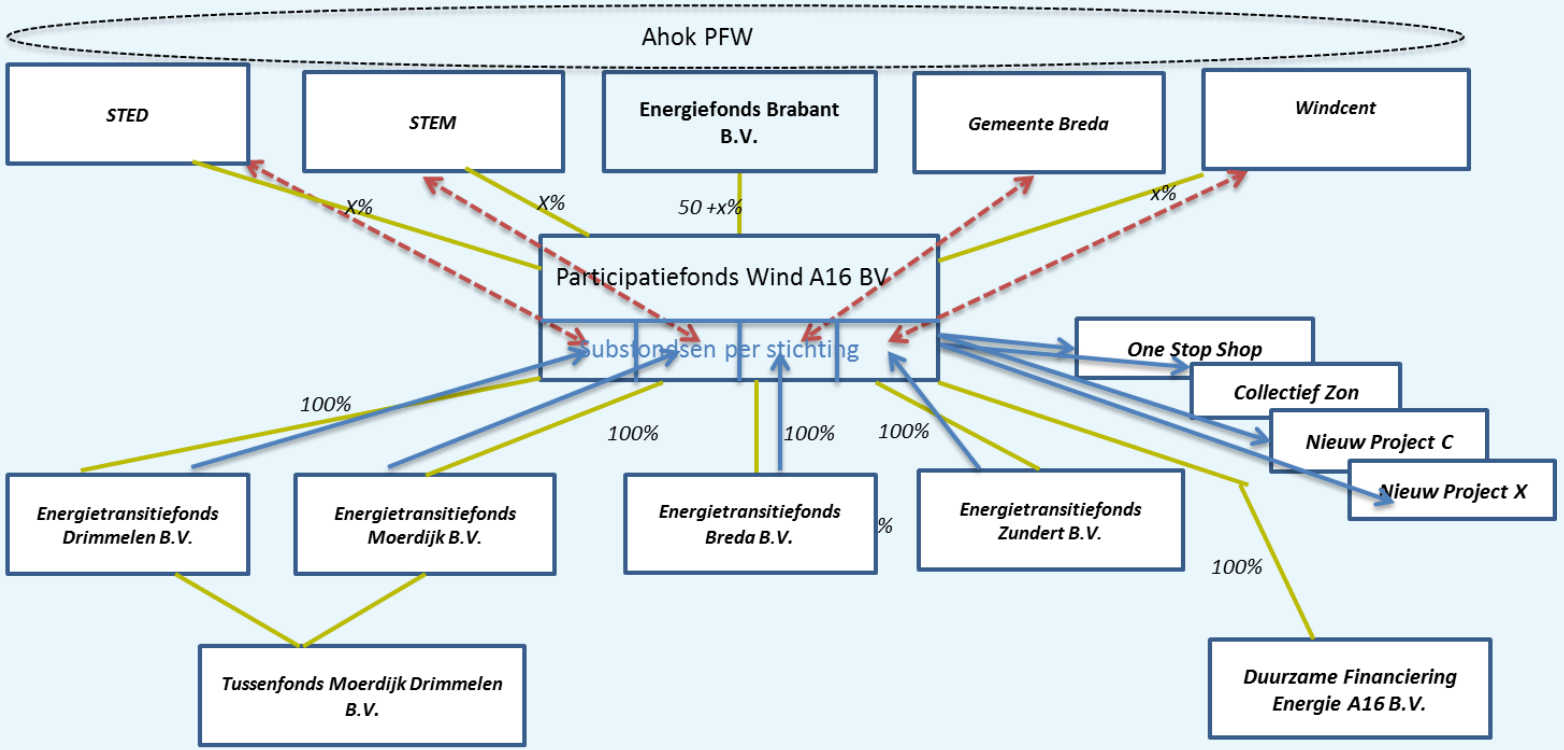
25% ownership in each wind project company



Local Funds for new projects local community



Key Succes Factors Energy Transition Funds

Energie A16 is a succesful co-operation between public parties, private developers and local citicens

Succes factors:

- Clear and shared purpose and requirements from the start
- Co-operation public, private and citicens
- Willingness to take risks by the Province of Noord-Brabant and BOM
- Clear agreements between all involved parties

Proceeds wind turbines as seed for energy communities

Energietransity Tranisition Funds available for Local Energy Tranistion. Citicens in control of the recources

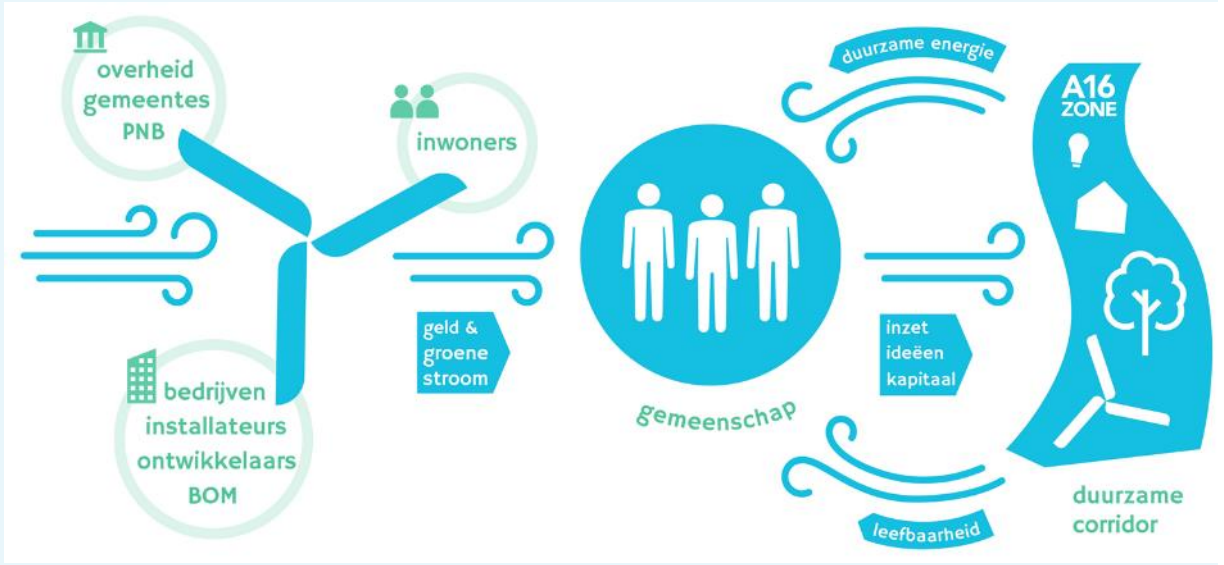
Proceeds flow to the Energy Transition Funds during 25 years life time of the wind projects

Local community decides about investments in new projects. Currently ongoing:

- Sustainiblity of individual houses
- Sustainibility sport clubs and community buildings

Future projects:

- Energy communities founded by ETFs



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