



# Renewable Energy Cooperation ZuidtrAnt cvba - so

# Who we are, what we do

- ▶ ZuidtrAnt: Energy Cooperation in the southern area of Antwerp
  - ▶ With committed citizens from the municipalities in the south of Antwerp city
  - ▶ Originated from the transition movements in the area - bottom up founded association without profit with support repair café's and sharing shop
  - ▶ Founded in 2016
  - ▶ Support from Rescoop Flanders (Federation of Energy Cooperations)
- ▶ What we want:
  - ▶ To unite citizens to work towards a sustainable and carbon-neutral society
  - ▶ To achieve energy reduction and efficiency at home, at schools and other buildings with support from the local government, ...
  - ▶ A low-carbon, healthy society



# Who we are, what we do



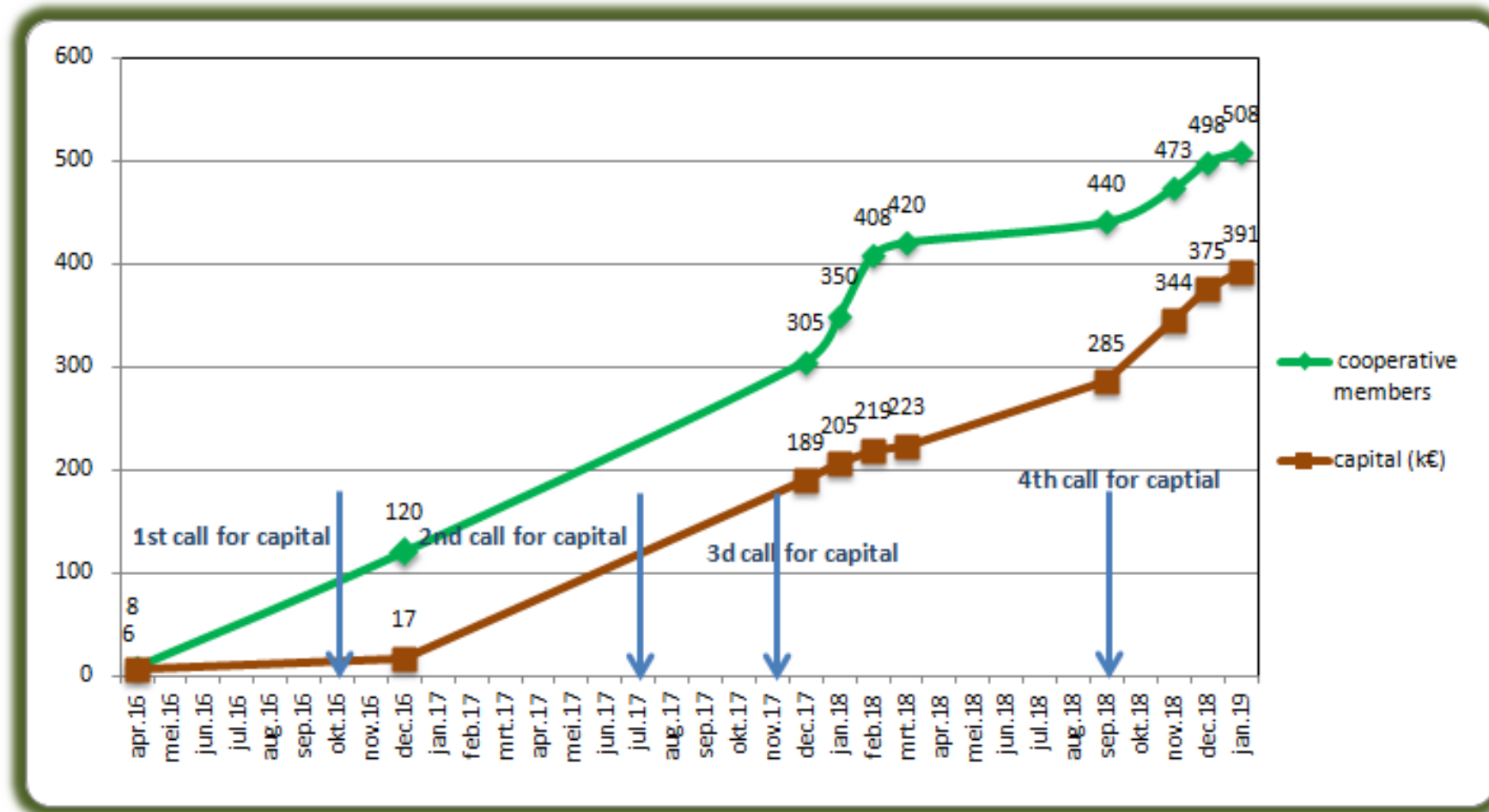
## ▶ What do we do?

- ▶ Invest in renewable energy
  - ▶ Solar panels, energy-efficiency in schools, carsharing on solar electricity
- ▶ Support and guide citizens to lower their energy use in their homes

## ▶ How?

- ▶ Citizens invest in our cooperation by purchasing shares
- ▶ They receive dividend when the cooperation makes profit
- ▶ Each shareholder has a say, no matter how many shares they possess
- ▶ A team of volunteers run the daily operation, with one part time employee
- ▶ ICA principles

# Cooperative Members (Shareholders) and capital



# Production of solar energy

- ▶ Approximately 200 mWh, energy for 60 families
- ▶ Win-win
  - ▶ Lower energy bill for owner
  - ▶ Less dependent on price increase
  - ▶ Citizens with shares receive dividend
  - ▶ Renewable, green energy



## ZuidtrAnt CVBA-SO

Burgercoöperatie voor lokale & duurzame energieprojecten

de FENIKS - **WALPURGIS**  
PV installatie van 13,8 kWp



**UITGEVOERD**



## ZuidtrAnt CVBA-SO

Burgercoöperatie voor lokale & duurzame energieprojecten

Kaleidoscoop Mortsel

**PV installatie van 13,8 kWp**

**UITGEVOERD**



# ZuidtrAnt CVBA-SO

Burgercoöperatie voor lokale & duurzame energieprojecten



## Zwembad Den Bessem - MORTSEL PV installatie van 50 kWp



**UITGEVOERD**

de taks shelter maatregel





# Zonnedaken in de pijplijn

<b>Sneppenbos - Boechout</b>	<ul style="list-style-type: none"><li>• <b>58 kWp</b> : in uitvoering</li></ul>
<b>OC De Witte Merel – Lint</b>	<ul style="list-style-type: none"><li>• <b>44 kWp</b> : in uitvoering</li></ul>
<b>JFW-school - Boechout</b>	<ul style="list-style-type: none"><li>• <b>15 kWp</b> : in uitvoering</li></ul>
<b>Sportlandschap- Mortsel</b>	<ul style="list-style-type: none"><li>• <b>10 kWp</b> : uitvoering 2019</li></ul>
<b>Technische Dienst - Kontich</b>	<ul style="list-style-type: none"><li>• <b>15 kWp</b> : voorstel wordt ingediend</li></ul>

# Project DeeldeZon (SharetheSun)

- ▶ Interreg project
- ▶ Purpose:
  - ▶ Research whether driving on solar energy is possible
  - ▶ Testing of bidirectional charging
  - ▶ Research into revenue models
  - ▶ Prevent peak load with the introduction of electric sharing mobility using batteries in multiple ways



# Project DeeldeZon (SharetheSun)



- ▶ Solar roofs
- ▶ Bi- directional charging stations
- ▶ Smart building energy management
- ▶ Electric carsharing + cycling
- ▶ Reduction of the peak load on the grid
- ▶ Smart Grid solutions



# Project DeeldeZon (SharetheSun)



## ▶ Pilot Sites

- ▶ Towns south of Antwerp - Start on 4 sites
  - ▶ In search of partnerships: local governments, schools, companies, cultural centers, project developments, ...
  - ▶ Co-financing from Province of Antwerp for bikesharing services
  - ▶ Partner for carsharing = Partago
- ▶ The Netherlands- Breda, Vlissingen, Rotterdam



# Project DeeldeZon (SharetheSun) - research questions

- ▶ Is it profitable to load from solar energy?
- ▶ Can an electric car pick up the peaks that come from the production of renewable energy?
- ▶ Is there money to be made in the vehicle to grid system?
- ▶ What is the best way for a car to deliver energy to a building?
- ▶ Test with GREENROCK salt battery for extra peak storage



# What we already learned

- ▶ It is necessary to work with citizens to make the transition to renewable energy.
- ▶ We need the support of the citizens, we need a proper foundation.
- ▶ Citizens have to be able to enjoy the benefits. Sharing in the profits, transparent way of doing business. WIN-WIN
- ▶ Citizens want to do something about climate change but they need help....

