LECSEA Final Conference
26 January 2023

Energy communities and businesses

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Els Ghyselen – energy broker Leiedal

Energy sharing at business estates Evolis / De Pluim

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Evolis / De Pluim – START

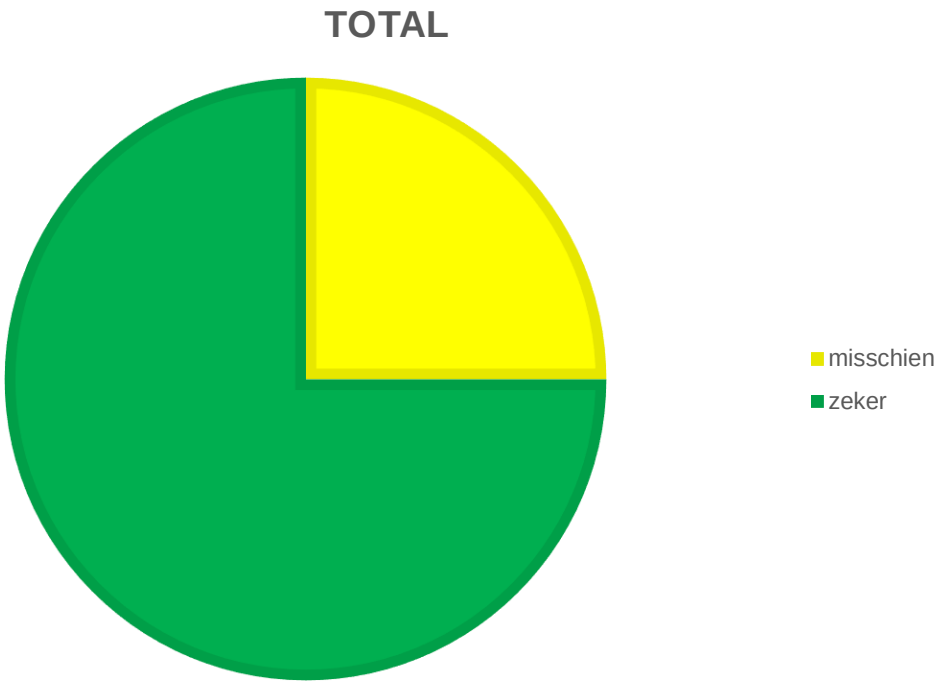
Building a **future-proof energy system** at Evolis / De Pluim
through the **business park associations**

Plan of action

- **To take stock** of the site:
  desktop study + **survey** + presentation at BPA general assembly (business park association)
- **To lay a basis** with the BPA and businesses:
  attend executive board meetings and exemplify trends, suggestions…
- **To hold bimonthly workshops** on company-related topics and on site.
- Leiedal **Energy Broker's** role:
  To press for action from within the BPA and to guide those actions.

What's happening?

Survey = **raising conciousness & clarification**



EVOLIS ENERGY COMMUNITY

Log in bij Google om je voortgang op te slaan. Meer informatie

*Vereist

Op vandaag

Ik ken het energieverbruik van mijn bedrijf: *

- ja, in detail
- min of meer, high level
- neen

Ik volg het energieverbruik van mijn bedrijf op: *

- regelmatig in real time, via een slimme meter of toepassing
- maandelijks & ex-post, via een dashboard of een factuur
- af & toe, gemiddeld maximaal 1x per kwartaal

In mijn bedrijfsvoering hou ik rekening met: *

	uitgevoerd	nu mee bezig	interesse < 2 jaar	interesse > 2 jaar	geen interesse	niet relevant
Optimalisatie energieverbruik						
Elektrificatie voertuigen (elektrische bestelwagens, personenwagens, vorkheftrucks,...)						
Investering in zonnepanelen						
Investering in batterijopslagsystemen						
Investering in laadpalen						
Monitoring verbruiksdata (verbruik meten van specifieke installaties en/of het hele bedrijf, gebruik						

Evolis / De Pluim – ENERGY STUDY GROUP

Hosted bimonthly by entrepreneurs**:**

SNOWBALL**: leading knowledge of EMS, Smappee**

CLIMAWEST**: top knowledge of HVAC**

KORDEKOR**: sharing a sustainability coordinator**

MR GROUP**: state-of-the-art PV installer**

OMER VAN DER GHINSTE**: major brewery with multiple branches and energy-sharing ambitions**

FOCUS:

1. Energy data via EMS
2. Opportunities within businesses
3. Opportunities as a community

Evolis / De Pluim – ENERGY DATA PLATFORM

1. **Mandate** to an independent energy expert
2. **EMS partner selection:**
   Criteria**:** plan of action – visualisation/look & feel – flexibility towards existing measuring equipment – security – functionalities - service – long-term conditions
   (Smappee - Energis – Cenergie)
3. **Business guidance:**
   Measuring point selection: main meters – PV installations – cooling units – compressors
   Support: site visit by park manager and external expert
4. **Businesses invest** in measuring equipment
   ca EUR 2,000 to 5,000 per company

Evolis / De Pluim – NEXT AFTER LECSEA

The way to an energy community = CONSOLIDATE cooperation

- INITIATOR out of the business park association => PARK MANAGER
- KNOW-HOW & PROJECT COORDINATION => ENERGY BROKER

  Mandate to external party with knowledge and local anchoring

  Option: local citizen energy cooperative Vlaskracht
- KEEP BUSINESSES ENTHUSED

  Service: peak-consumption data analysis, potential smart directing
  Study groups well-prepared on current topics

Marianne Vancleemput - WVI

Veurne Energy Management System

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LECSEA Veurne
Energy Management System

Goal

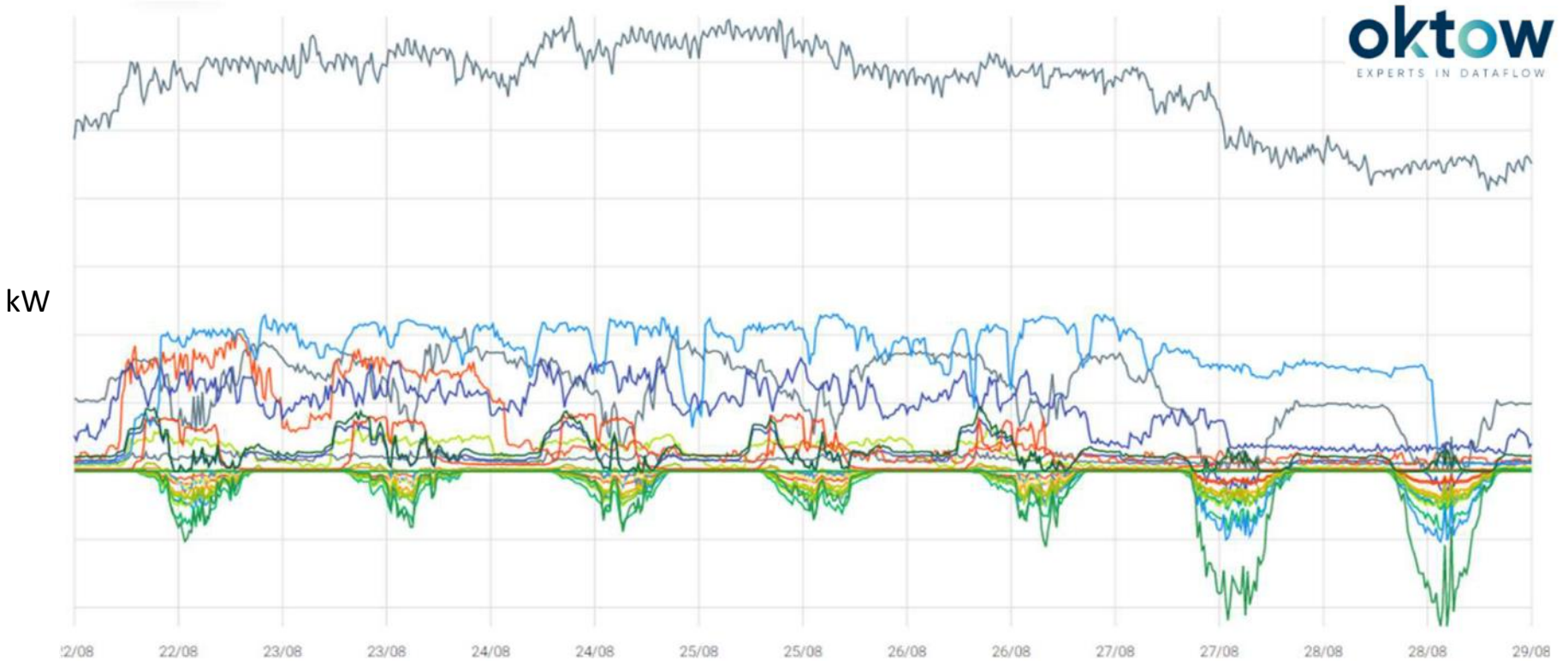
Mapping the potential to expand energy production and share energy with a energy management system

Method

- Selection of companies by their activity with a potential large energy consumption
- Involving the municipality and the companies
- 11 companies have joined the EMS (yellow on ma)
- 5 companies with solar => potential to share their injection

Case Veurne energy management system

- Energydata

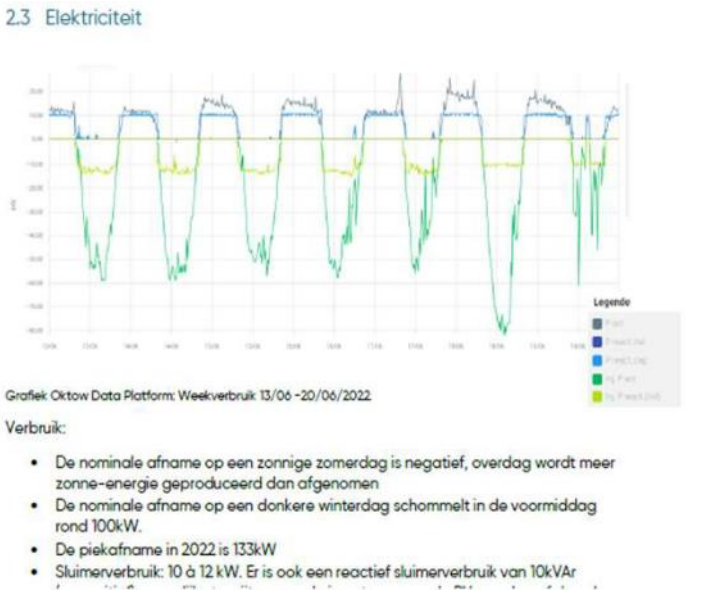


Case Veurne energy data service

- Site visit

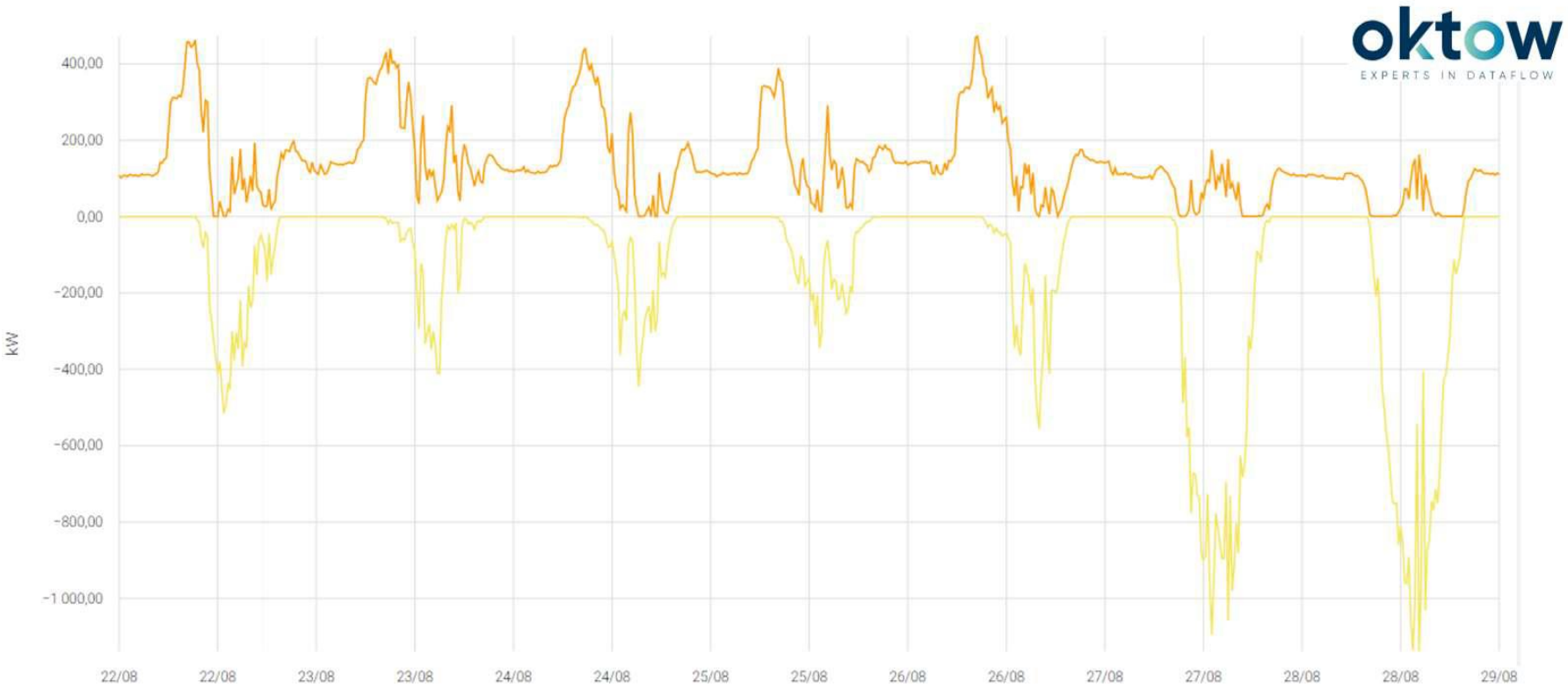
Report

- Historic data (3yr)
  - Peak
  - Stand-by consumption
  - Reactive energy
- First conclusions
- Next steps



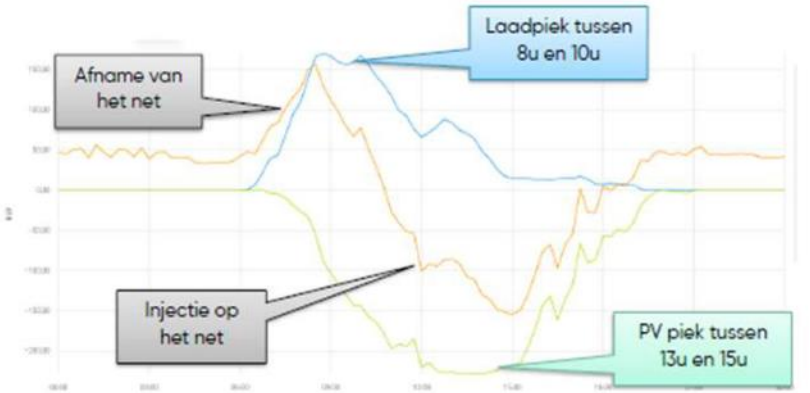
Case Veurne - solar

- Analysis 5 companies with solar

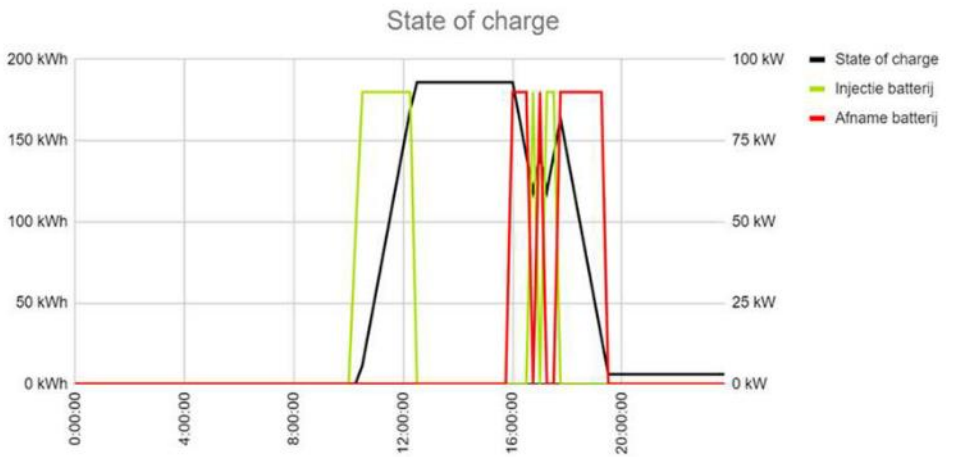


Valorisation of energy

- Smart control, inhouse flexibility, energy routing
- Buying and selling at spotprice
- Batteries
- Smart electric charging
- Energy sharing
  - Same owner, different sites
  - Peer to peer (P2P)

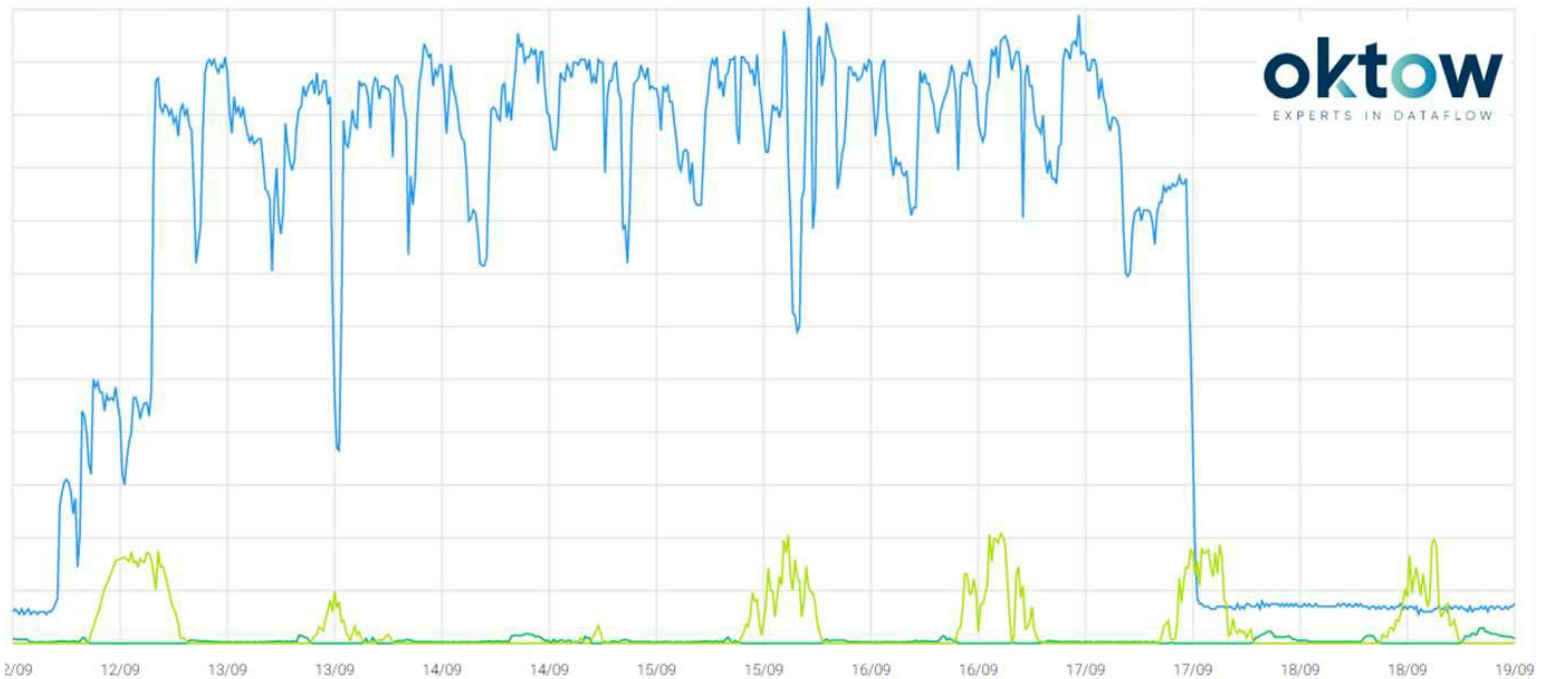


ODP: Laadprofiel, PV productie profiel en netgebruik



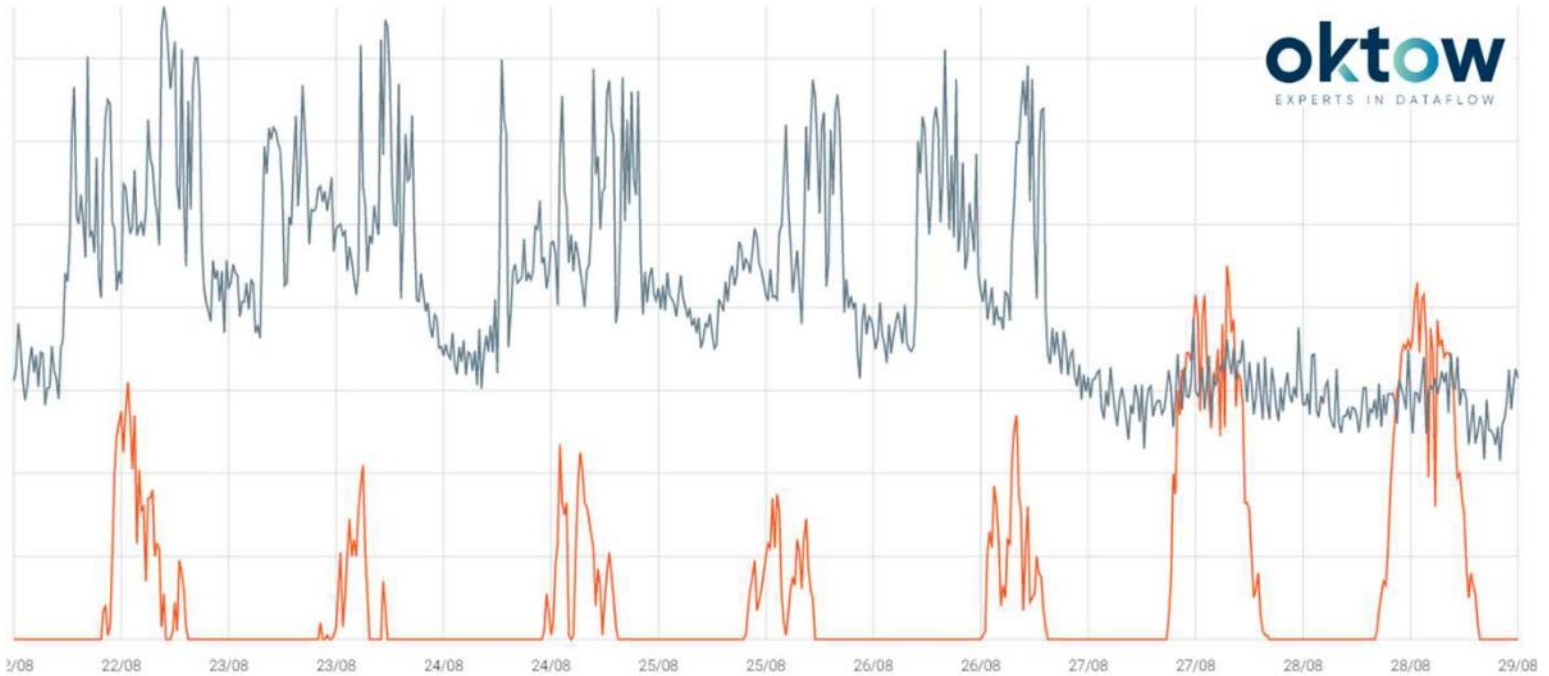
Case Veurne - solar

- Potential to share
  - Company with two sites: energysharing



Case Veurne - solar

- Potential to share
  - Sell injection P2P to other company



Theo van Kuijck

Platform BV Breda

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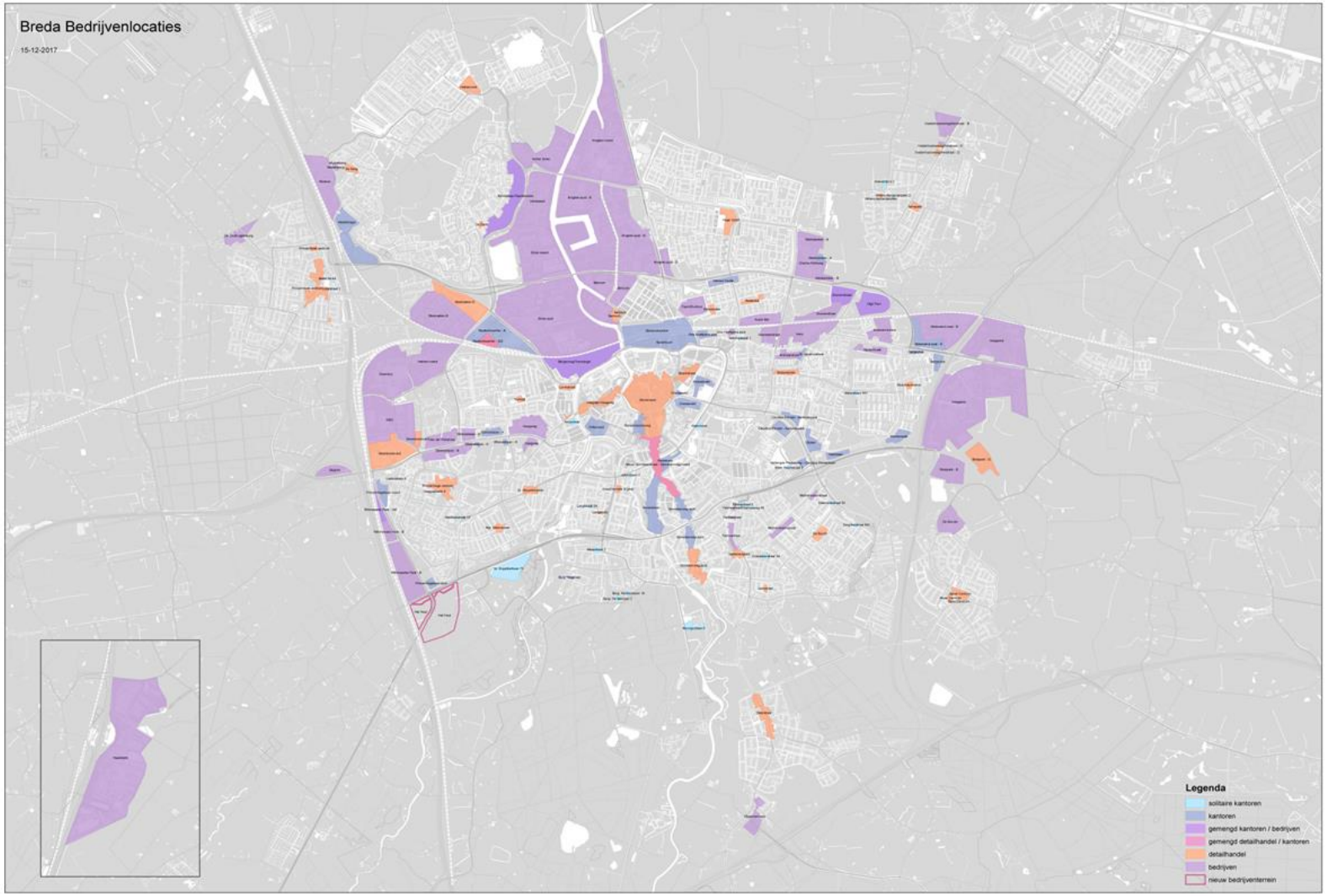

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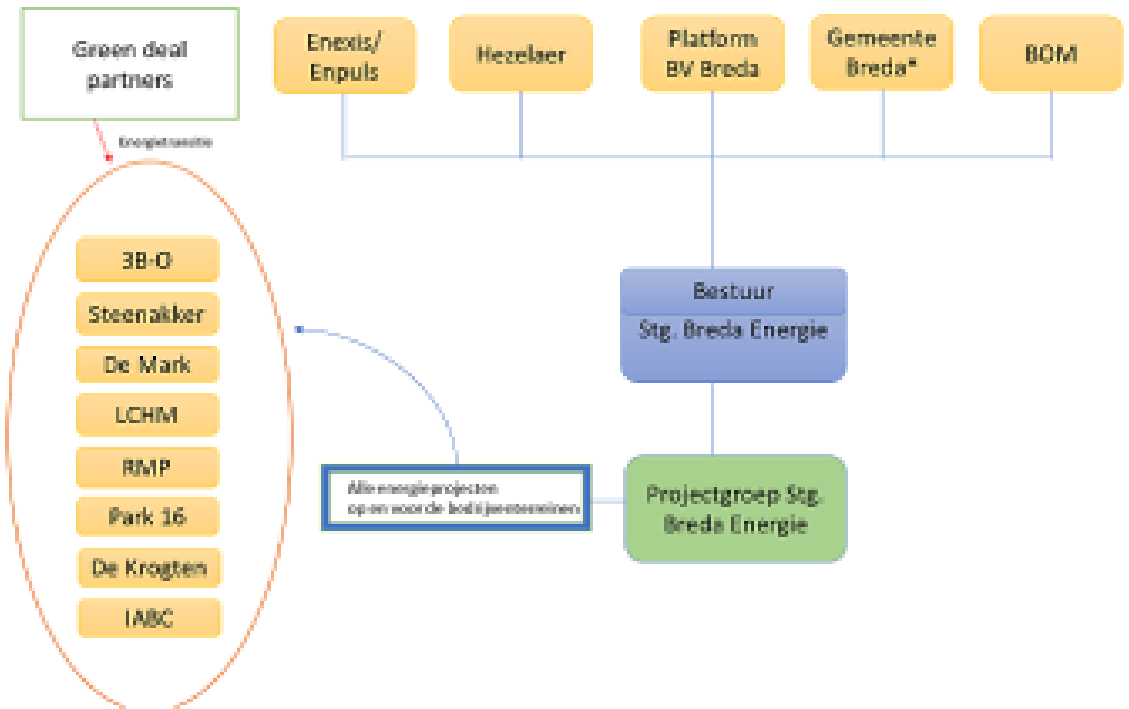
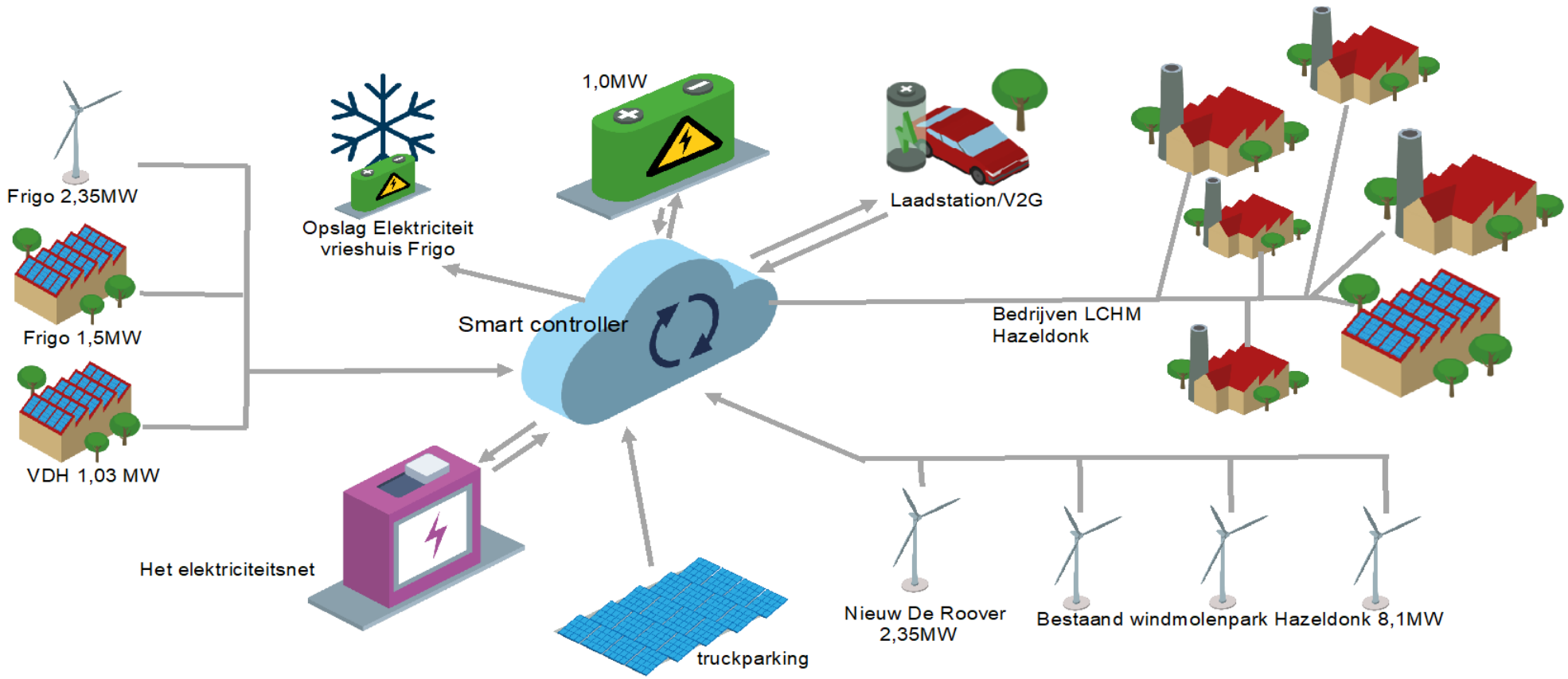


BREDA ENERGIE

Platform BV BREDA



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LCHM-Energy Community Transportzone Meer

- PV maximization on roofs and water basins
- 1 windmill
- Energy exchange
- Energy management systems
- Energy storage
- Loading infrastructure for trucks and vehicles

Platform
BV BREDA

Andrew Tolfts

Manor Royal Business District

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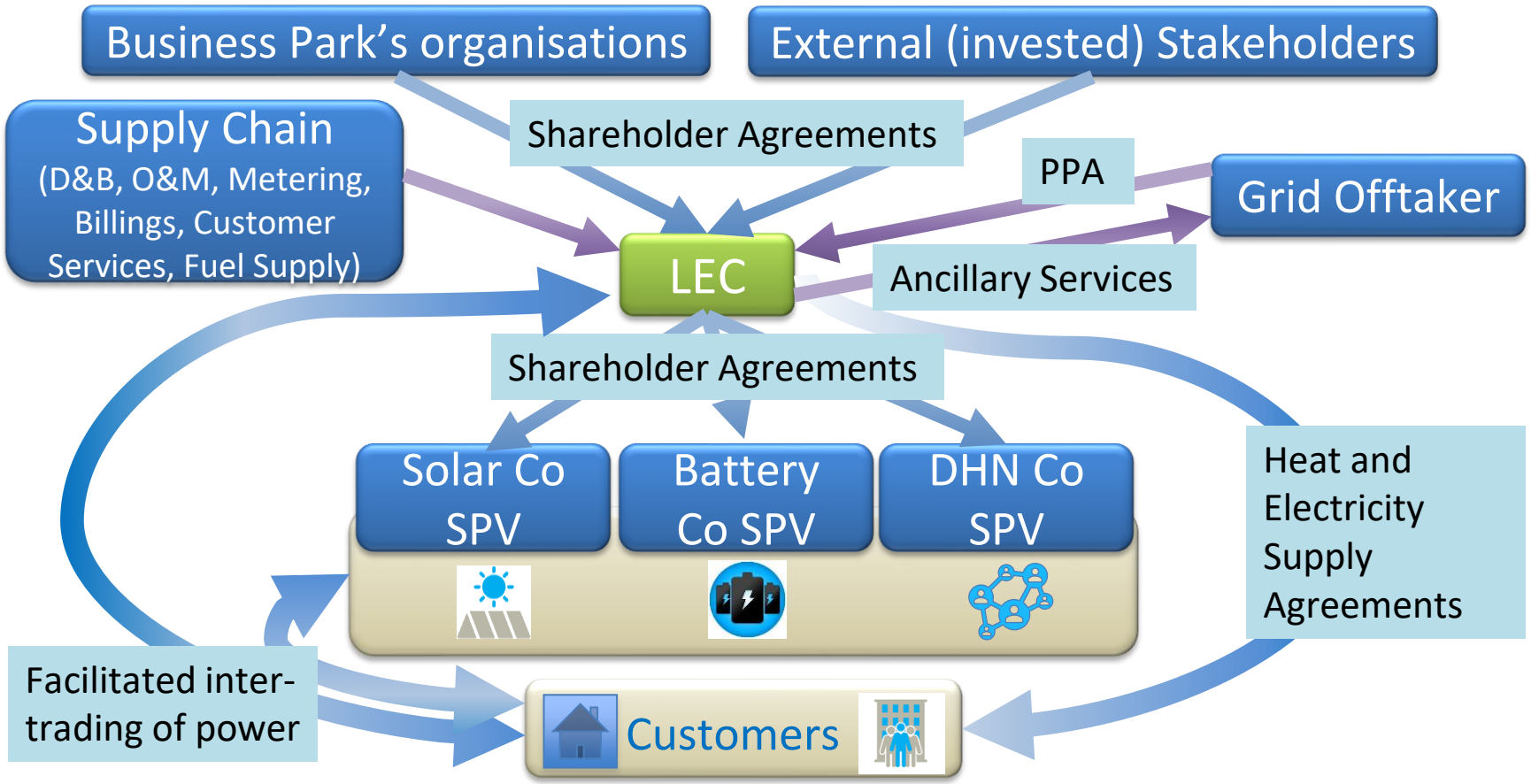
Re-Energise Manor Royal's ambition

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

Powered by local, renewable generation

Owned and managed by its members: Manor Royal businesses



Re-Energise Manor Royal structure

- 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
- Minimisation of risk taken on by LEC members
- Asset lock to protect member companies' interests
- Clear and open exit strategies

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