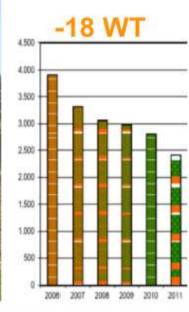
### Ecopower is a REScoop

#### a Renewable Energy Sources COOPerative











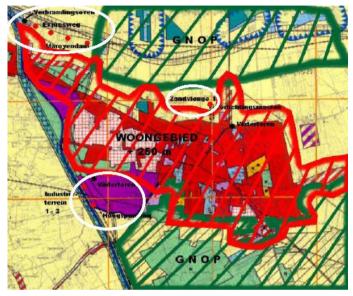




# Case Eeklo: public tender wind

in 1999 and 2009











Eeklo: windturbines as a start for local transition & community power

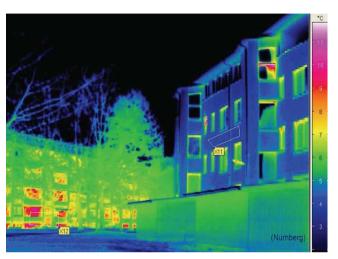
#### Case Eeklo: RE & RUE

#### cogeneration on ppo & heat recovery city hall

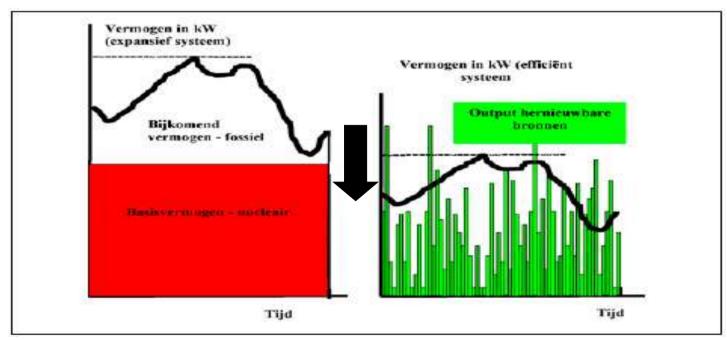














2011 : heat recovery on ventillation system

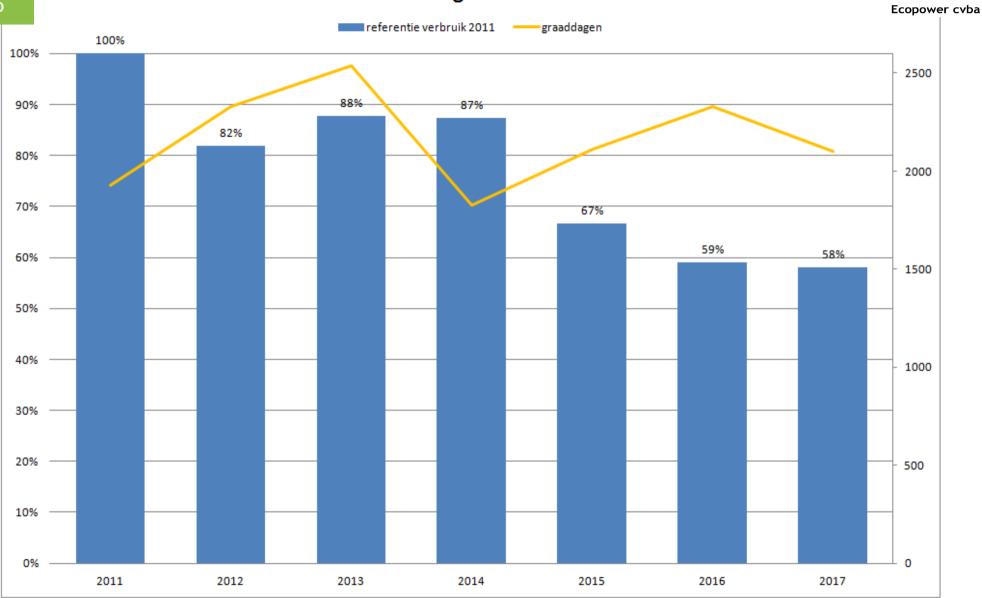


2015 : repowering condensation gas boilers backup & peakload cogen ppo





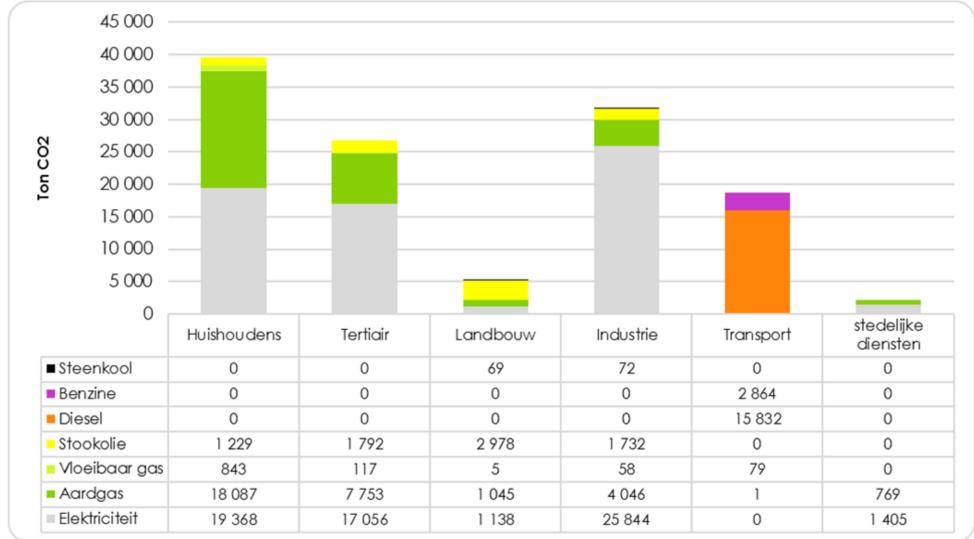
#### **Verwarming stadskantoor**





#### Eeklo: Nulmeting 2011 124.000 ton CO2 & 400 GWh





Grafiek 6: De uitstoot per brandstof per sector – Bron: Nulmeting (2011) VITO 2016+ cijfers van de stad Eeklo

#### Case Eeklo: RE & RUE

# Ecopower cvba

#### PV public buildings & district heating feasibility study









### Questions?







































## **ICA** coops in Flanders

































# **Agenda**

- Relighting Halle
  - what?
  - bottlenecks
- Relighting future
  - what?
  - how?
  - when?
- Conclusion



# Relighting Halle: what?

#### Δ public lighting lamps

- high Pressure Sodium → LED



## Relighting Halle: what?

Pilot project

Limited scale: 400 lamps

- Profitable
  - 92 tons CO<sub>2</sub> /year
  - City: € to PajoPower < € electricity saving</li>
  - Financial model for coop

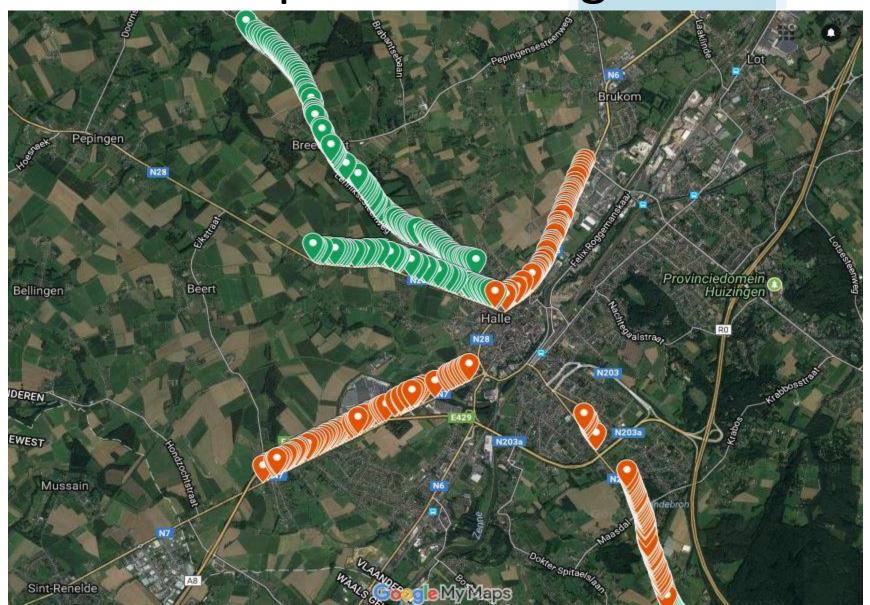


### campaign



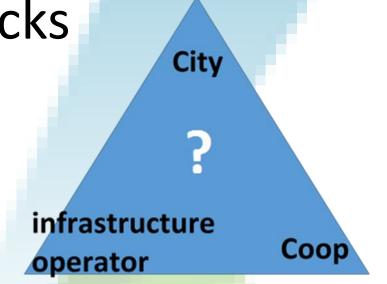


Adopted street lights



### **Bottlenecks**

- legal minefield
  - Lamp ownership?
  - Coop = 3<sup>rd</sup> party:
    who does what?



- No examples of public tender, specs, quotation, ...
- Local 
   ← EU public procurement rules
- Too little ambition: dimming, sensor triggered, ...
- Extra dimension: circular economy



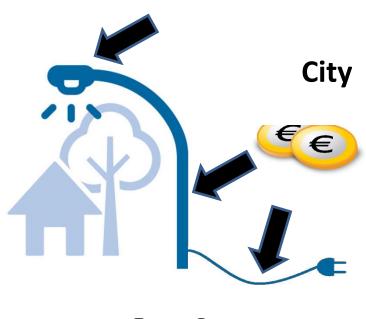
# **Agenda**

- Relighting Halle
  - what?
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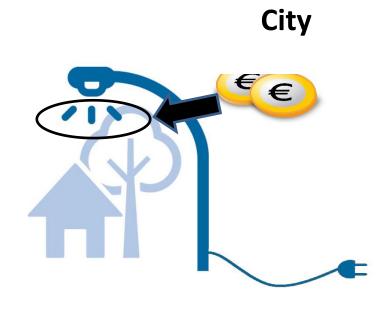


# Relighting in the future: LaaS

Light as a Service (LaaS)



As Is



To Be



#### LaaS service model



- City
  - Service consumer
  - Buying light
- Service provider
  - Selling light



#### LaaS benefits

- Unburden city administration
- Business model stimulates:
  - Energy efficient lamps



- Circular economy:
  durable armatures = modular
- Local economy: repair / replace faulty parts



### LaaS challenges

- How to involve citizens?
  - Financial participation
  - Participation (# lumen, when light, dimming, ...)





### Approach

 Regional government's financial support for innovative public projects

DEPARTEMENT ECONOMIE WETENSCHAP & INNOVATIE





Project leader: City of Halle

Project: "Durably supported public light"



# Durably supported public light

#### **Purpose:**

Develop a service contract for the purchase of street light according to the principles of circular economy. Using locally produced energy, carried and co-financed through citizens' participation.



# Durably supported public light

#### **Project leader:**

City of Halle

#### Stakeholders:

Agentschap Vlaanderen

Vlaams minister van Energie: Bart Tommelein

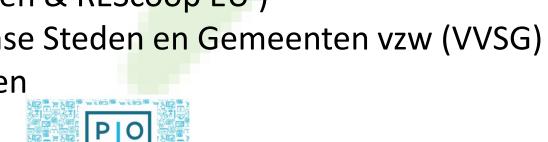
Vlaams EnergieBedrijf NV (VEB)

Participatiemaatschappij Vlaanderen NV (PMV)

Renewable Energy Sources cooperatives (REScoop Vlaanderen & REScoop EU)

Vereniging van Vlaamse Steden en Gemeenten vzw (VVSG)

i-Cleantech Vlaanderen



# Durably supported public light

#### **Project timing:**

2018 - 2019

#### **Ambition:**

Implement the service contract in the Flemish cities, in order to contribute to the achievement of the SDG's 2030.





# **Agenda**

- Relighting Halle
  - what?
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- Relighting future
  - what?
  - how?
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- Conclusion



#### Conclusion

- Relighting
  - Ecologically sensible.
  - As is model of public lighting = outdated
- Future = durably supported public light
  - LaaS with citizens' participation:
    CiLaaS: <u>Citizens Invest in Light as a Service</u>
  - Service contract ready for rollout in 2020





