Thermo Bello The role as collective heat pioneer Friday April 3rd 2020 **Co-creation webinar** SHIFFT



Programme:

- 1. Thermo Bello: Self organisation of a
 - local community in district heating
- 2. Thermo Bello: A prototype to accelerate
 - natural gas phase-out
- 3. Energie Samen Buurtwarmte: A support
 - structure for local communities in the
 - natural gas phase-out



Thermo Bello by FDRIF

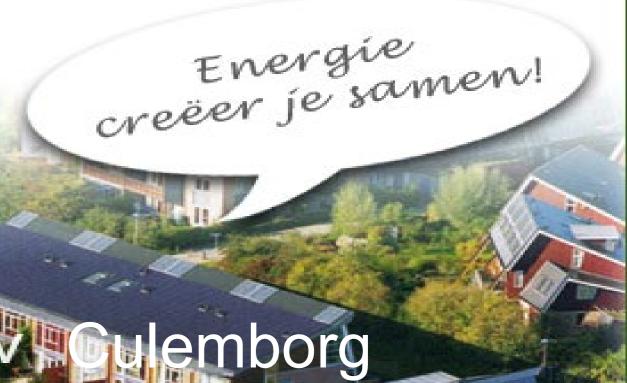
Kunnen we het zelf beter?

> Beheer warmtenet in eigen hand....

ENERGIEBEDRIJE Thermo Bello

SER.

Thermo Bello Self organisation of a local community



Emergence of Thermo Bello





- 2007 Drinkwater control
 heating activities
- Dutch district heating companies and the city of Culemborg don't want to buy it
- The district has an active working group on energy and installations: initiative for a feasibility study
- 2008 the investigation process is organised in an (informal) association with 60 members
- 2008 a first draft Business Plan is ready in May: a survey in the district shows trust in the process
- The general assembly votes for creation of Thermo Bello Ltd in November 2008.
- April 1th 2009, Thermo Bello is owner of the district heating activities.

2007 Drinkwater company wants to sell its district

Thermo Bello operations





- district heating
- Heating source: drinking water basin
- Low temperature: 20 to 50 degrees Celsius
- Households have individual installations for warm tap water
- Technology: Heat pump and natural gas (peak) Annual production: 9.000 GJ (2500 MWh)
- Annual turn over: 250.000 Euro



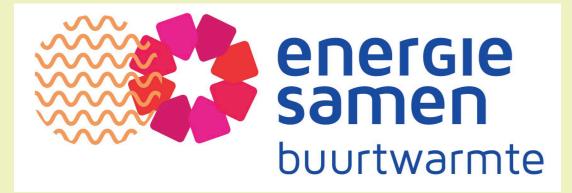
• 3 Roles: Producer, network operator, distributor of





Structure of Thermo Bello





Two legal entities:

- Limited company with 42.750 Euro shares ullet
- Cooperative is 100% shareholder. Two \bullet

Goals:

- Residents involvement •
- Financial risks on a voluntary basis •
- Business operations guaranteed ullet

- membership categories: A) individual
- shareholders, B) association of residents

Residents involvement with **Thermo Bello**





Customers: 220 households, 7 utility buildings Director: 1 (0,3 fte) Board members: 3 with 300 members

Goals:

- Satisfaction of residents \bullet
- Licence to operate: From, For and By • residents.

- Technical staff: 4 (2 volunteers) (0,3 fte)
- Members: A: 60, B: association of residents

Lessons learned in residents involvement





- We utilize capacity of people in the district
- We move step for step
- We seek resistance to improve
- We are detached from the result
- We seek dialogue, we postpone judgement
- We are transparent in what we do



ENERGIEBEDRIJF Thermo Bello bv

Thermo Bello A prototype to accelerate natural gas phase out

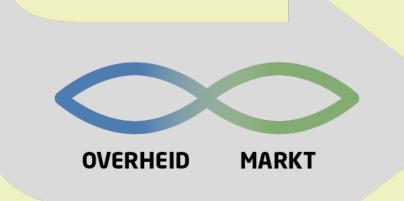
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ENERGIEBEDRIJF Thermo Bello b



Both governments and markets fail to get home owners into action





- too hard
- owners
- \bullet respected

- owners
- \bullet

Governments take political risks if they push

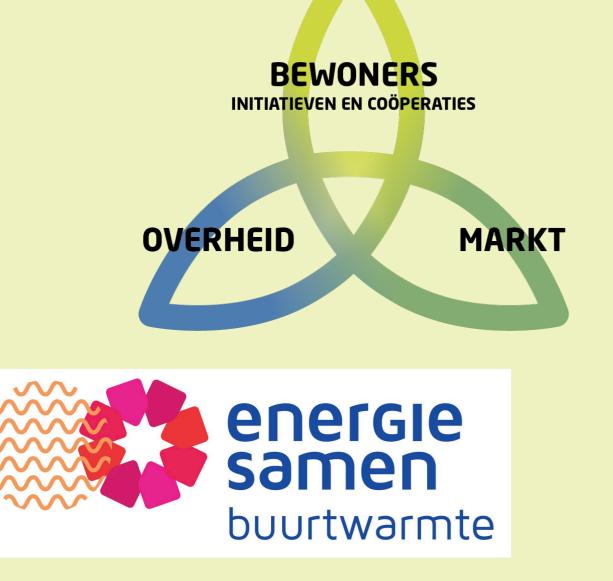
Home owners are treated as voters Governments are reluctant to oblige home

Property rights of home owners need to be

Markets don't have an attractive offer Home owners are treated as customers Markets find it difficult to convince home

Markets have no experience with coproduction or cocreation with customers

Co-creation can accelerate the heating transition



Home owners are empowered to organise themselves to find solutions for the natural gas phase-out and to develop, construct and exploit district heating networks

This requires space for self-organisation:

- Moral space
- Administrative space
- **Financial space**
- Political space

Co-creation implies change of the role of residents: they organise themselves



Energiemaatschappij

Andere, lokale initiatieven

Gemeente

Netwerkbeheerders

Trias Coöperatica



PARTICIPATIE LADDER

Local communities define themselves in relation to governments (& markets)



bewoners zelf eigenaar

samen eigenaar zijn

samen beslissen

adviseren

informeren



Co-creation implies change in the role of the government





The government is learning to be responsive....



Rollen van de overheid in de samenwerking met de energieke samenleving:

Publieke prestaties

2. Presterende Overheid

- Prestatiesturing (verticaal)
- Marktdenken: overheid als bedrijf, burger als klant
- Effectiviteit en efficiency staan centraal, een goed doel moet meetbaar zijn

Overheid <

1. Rechtmatige Overheid

Politiek debat bepaalt publieke belangen, bijvoorbeeld:

- Uitvoering wet- en regelgeving
- Bewaken rechten en plichten
- Procedurele zorgvuldigheid staat centraal
- Goed bestuur

Politieke keuze

Netwerkende Overheid

 Overheid is 'in the lead' en zoekt samenwerking met andere partijen (veelal koepels)

 Horizontale samenwerking, doelen gezamenlijk bepaald

 Onderhandelen of compromis, afspraken vastgelegd in akkoorden of convenanten

> Markten gemeenschap

4. Responsieve, participerende Overheid

- Initiatief van onderop
- Netwerksturing

 Overheidsparticipatie (kan ook zonder overheid), ruimte en ondersteuning bieden aan maatschappelijk initiatief. Met georganiseerde, maar ook ongeorganiseerde partijen

...while trying to balance 4 legitimate roles



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Energie Samen Buurtwarmte



- phase-out
- heating network
- heating project

• A shared service from energy cooperatives for initiatives of residents in the natural gas

• A service in the neighbourhood process from the start to exploitation of a district

• Supports the access to financing for a

Empowerment of self organisation of residents in district heating



The neighbourhood process consist of:

- Community building
- Business case and technical design
- Stakeholder management
- Organisation development

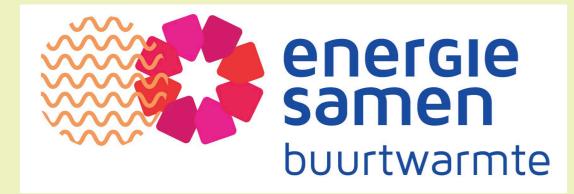
Neighbourhood process: 4 phases 12 steps



Definitie Buurtenergieplan

Aanbesteding Aanbestedings-

document



BOUW

EXPLOITATIE

7 Contractering

Opdracht

10 Onderhoud

Meerjaren Onderhoudsplan

8

Uitvoering

Opgeleverd 'vastgoed'

11

Optimalisatie

Verbeterplan op basis van data-analyse

9

Nazorg

Goed functionerend 'vastgoed'

12

Vervanging

Vervangingsplan

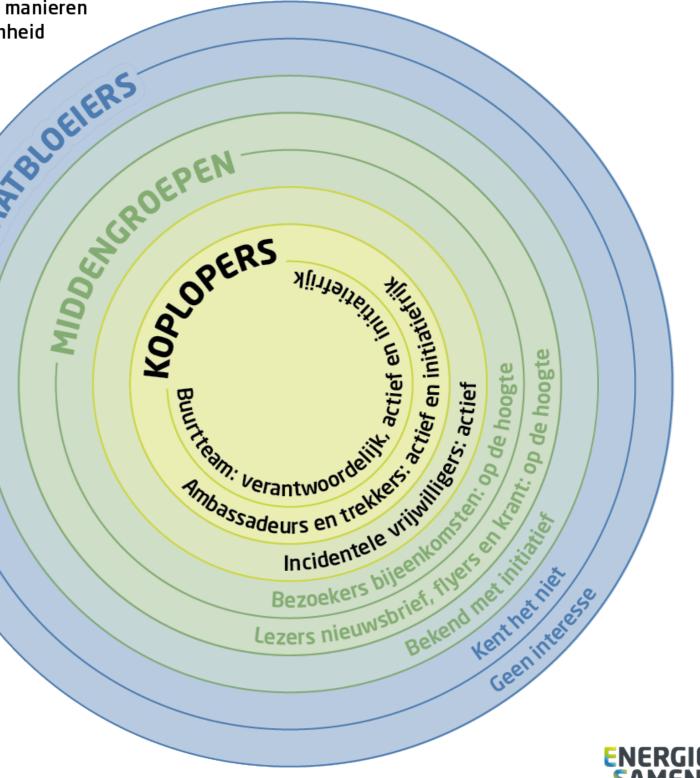
Community development



OPBOUW NETWERK

JAN BLOEIERS

Verschillende manieren van betrokkenheid





Contact



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