



Your moderator for today

Morten Duedahl



Business Development Manager at DBDH (Danish Board of District Heating)

Michiel de Wit



Process Manager district heating at the Municipality Súdwest-Fryslân







Opening and welcome

Program for today

Welcome and introduction to CONFIDENCE

• Deep Dive II – Outcomes and Insights

Topic #1 — Establishing a Municipal Energy Company.

• Discussion and time for questions

Topic #2 – Developing the Masterplan: From Pilots to a Phased Approach?

• Discussion and time for questions

Topic #3 — Developing the Financial Model?

• Discussion and time for questions

Next steps...



Project Confidence From idea to project

- Project is aimed at translating Danish knowledge in the heat transition to **Dutch issues on:**
 - Organization
 - Financing
 - Confidence

- Our first Deep dive on 13, 14 and 15 June was a great success with important lessons we turned into a new way of development.
 - Masterplan approach
 - Key assumptions optimisation business case
 - Creating more confidence

Second Deep dive session

- The second Deep dive 4, 5 and 6 November largely returned to confidence as a theme.
 - Assessment of our steps taken, are we doing the right
 - Establishing a district heating company, how do we increase trust among local politicians, stakeholder and our residents
 - But also how do we build on the experience we gain together

Project Confidence From idea to project

- Project partners
 - Working together in this project with.:
 - Danish Board of District Heating
 - Gemeente Súdwest-Fryslân
 - Enber B.V.
 - Province of Fryslân
 - BNG Bank Nederlandse Gemeenten
 - VNG Vereniging Nederlandse Gemeenten
 - Danish Embassy in the Netherlands
 - Naestved Fjernvarme, Egedal Fjernvarme, municipality Høje-Taarstrup



Danish Experts

Jens Andersen

Marie-Louise Lemgart Johan Sølvhøj

Hanne Kortegaard Støchkel





Director Næstved Fjernvarme



Chief energy and climate advisor at Høje-Taastrup Municipality



Director Egedal Fjernvarme



Project Development Manager at DBDH



Business Development Manager at DBDH









Speakers

Michiel de Wit



Process Manager district heating at the Municipality Súdwest-Fryslân

Bernard Stornebrink



Senior Energy Finance Specialist at Enber







Development of a municipal energy company

Process of creating an energy company

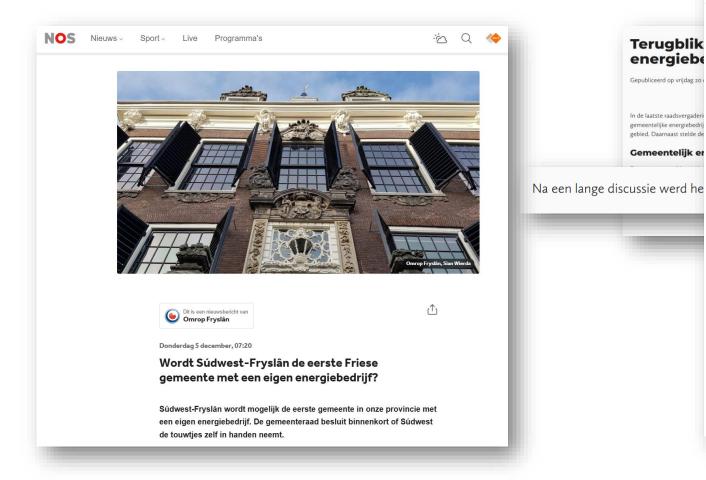
Recent developments

From concept to municipal decision.

Lessons and company



Recent developments





tend akkoord met eigen energiebedrijf in Súdwest-Fryslân

20 december 2024, 07:57 • 2 minuten leestiid

enomen.



Radiator

Gepubliceerd op vrijdag 20 (

In de laatste raadsvergaderii gemeentelijke energiebedrij gebied. Daarnaast stelde de

Gemeentelijk er

Het is een sprong in het diepe voor de gemeente Súdwest-Fryslân: de oprichting van een eigen energiebedrijf. Want daar zijn nog maar een handjevol van in Nederland en in Friesland zelfs niet één.

Climate Agreements



Maximum 2°C temperature increase (Paris agreement)



55% CO₂-emissions in 2030 compared to 1990 (Climatelaw)

Maximum support for transition Climate Neutral Society (Climate Plan, 2019)

51% public control in new district heating company's (Concept WCW, 2023)



 $50\%~{\rm CO_2}$ - emissions in Súdwest-Fryslân in 2030 compared to 1990 _(Climate agenda) Making 8,000 homes natural gas-free by 2030

Súdwest-Fryslân Energy-neutral 2050



Challenges

- Complex policy area
- New way of thinking, considering the neo-liberal tradition
- Can we still go back? Lock-in fears
- How do we maintain control



Confidence

- Take the time to get councillors on board
 - Information-sessions
- Discover their concerns, worries, objections
 - Face-to-face meetings
- Give councillors the oppertunity to meet the team, a face to a name.
- Ensure that the plan is well structured, with several decision moments for both the council and the coalition
 - Step 1: municipal energy company
 - Step 2: Which city first
 - Stap 3: Project proposal for the whole city, and first phases

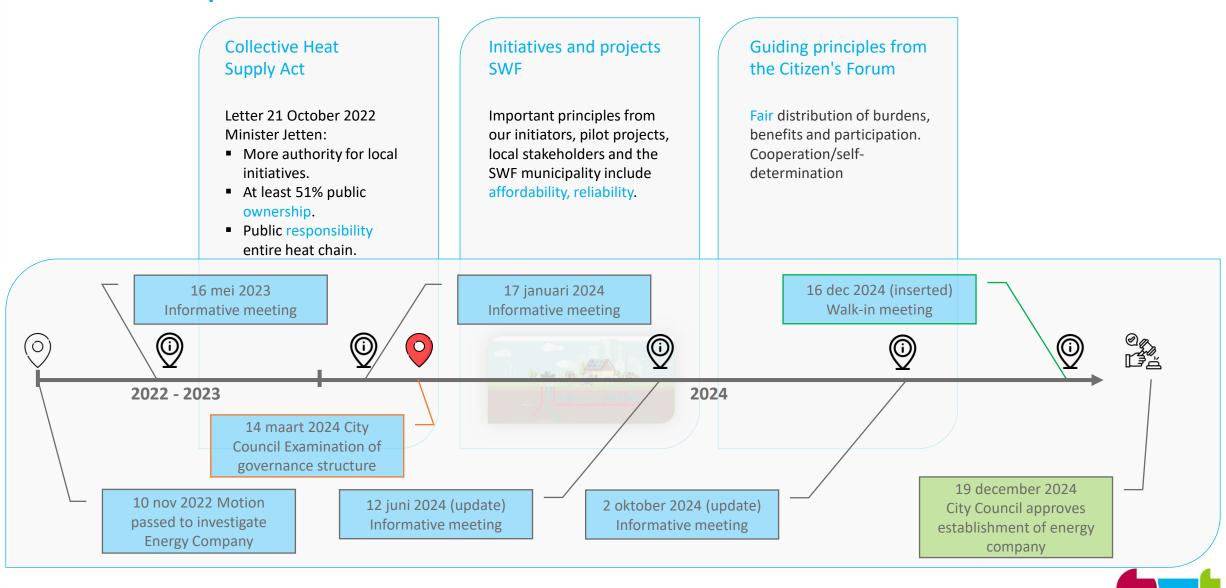


Storytelling

- How does it relate to other municipal ambitions? Put yourself in the shoes of the Executive Board and the Council.
- Local heat sources over foreign gas
- Residual heat from Frisian companies
- Grid congestion



From concept to decision







Frisian community: "Mienskip"

- Local heat sources instead of foreign gas
- Local ownership based on our own principles
- Employment and stimulation of the local economy, with opportunities for technicians, construction companies, and installers
- Affordable and accessible heat while achieving climate goals

Grid congestion and municipal ambition

In 2024 1500 companies on the waiting list for a power connection in Fryslân

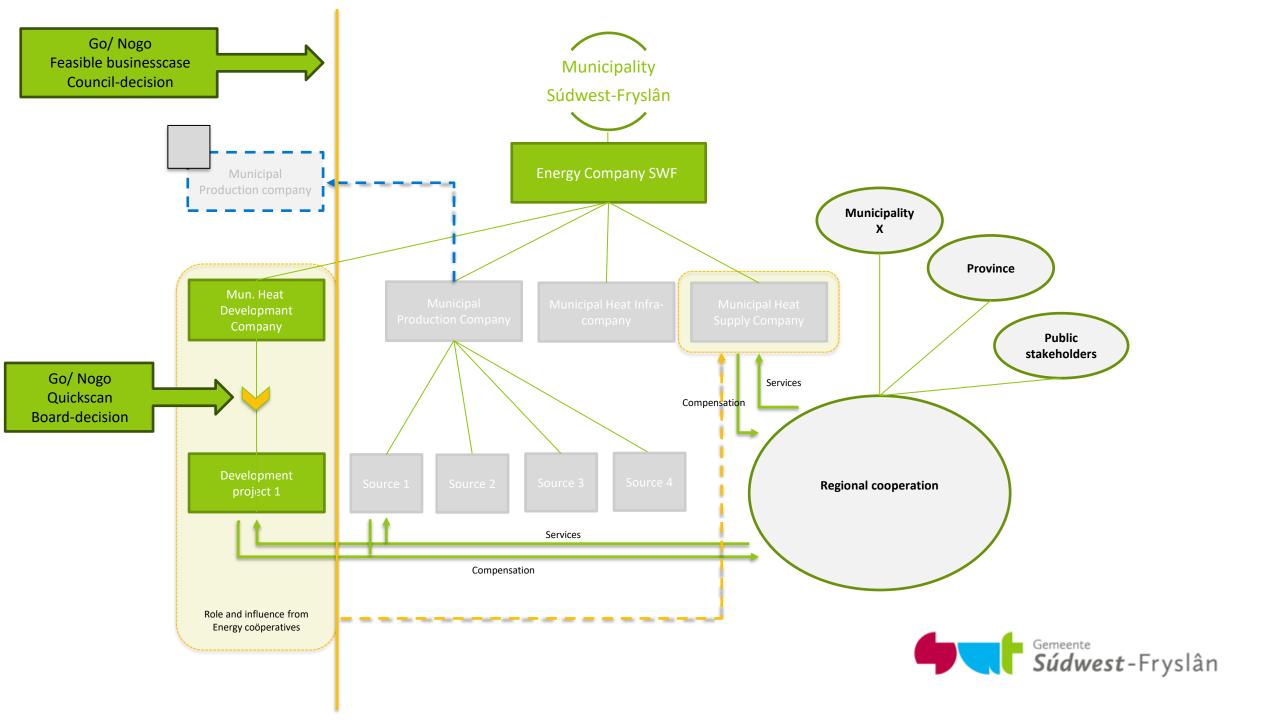
Municpal ambitions:

- New houses
- Expansion of companies (Hochwald, Bolsward)
- New companies (Hemmen III)
- Social facilities

Collective district heating:

- Requires less electricity than individual heatpumps
- Reduces grid congestion through:
 - Converting electricity supluses in to heat
 - Easily storing heat
- Utilizing (residual) heat sources that would otherwise go unused.





Now it's time for...

Vragen

Questions

og and

Discussies

Discussions

Diskussioner

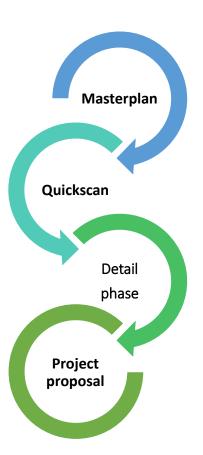
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Spørgsmål



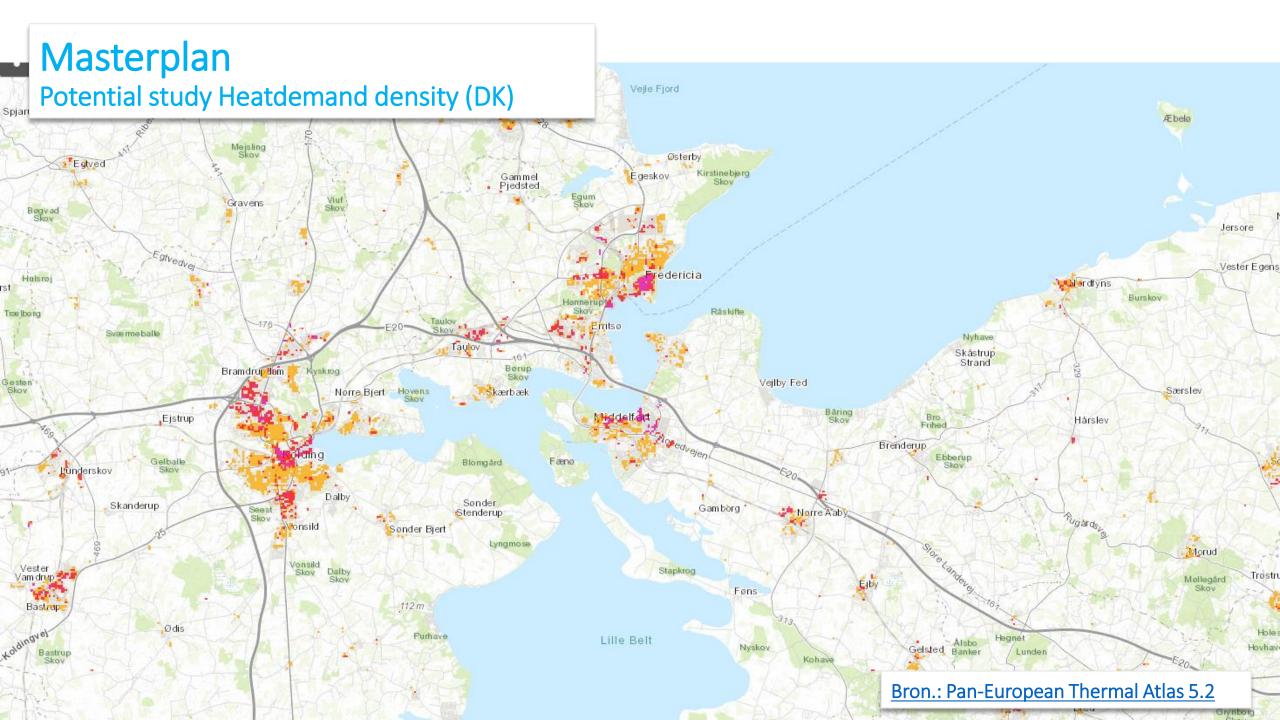
Developing the Masterplan:

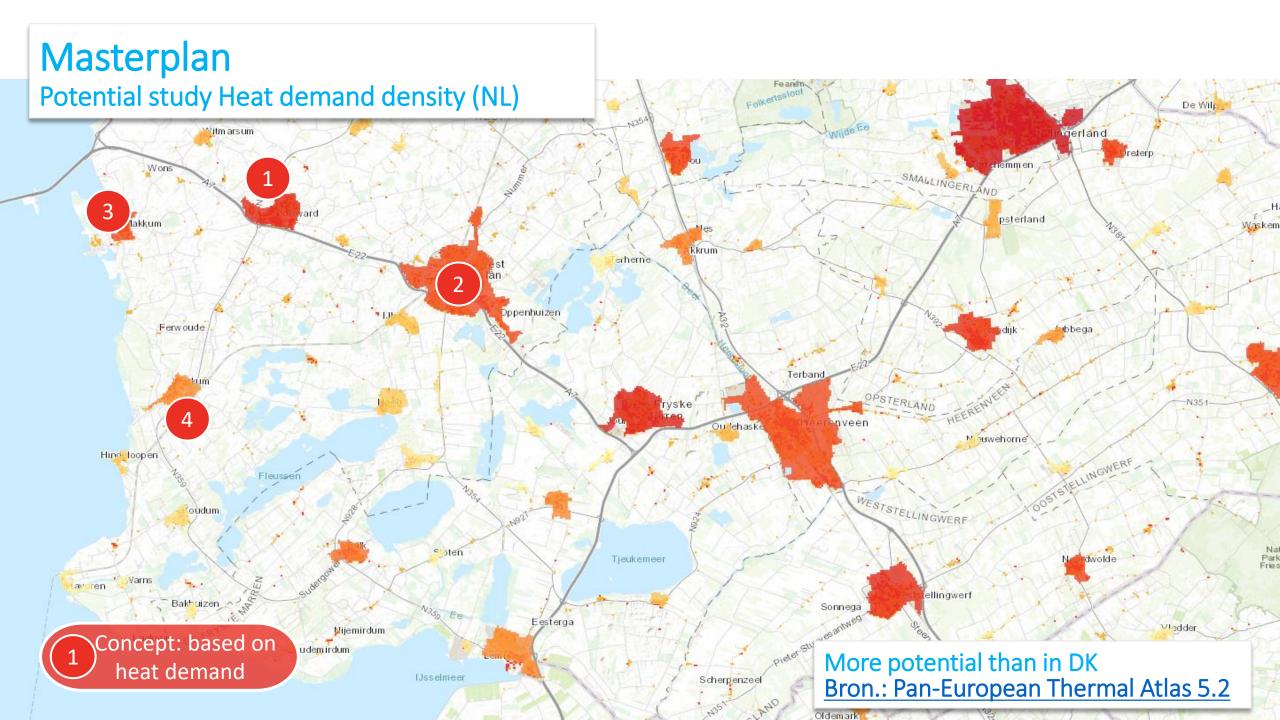
From Pilots to a Phased Approach





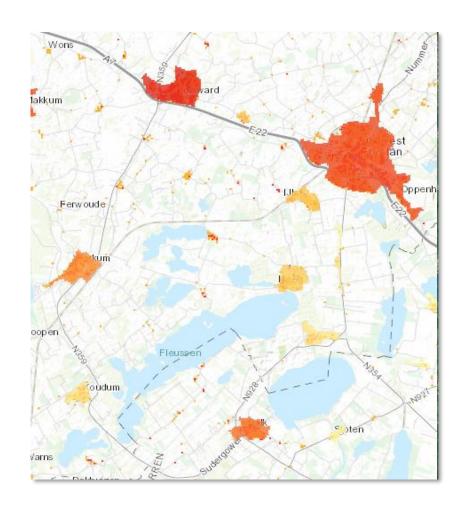


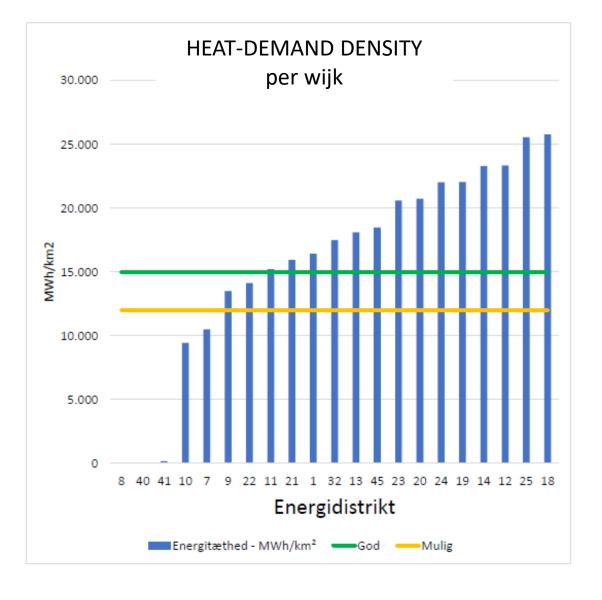






Determining the most successful area's through Quickscans





Masterplan Which area (city, town, neighborhouds) first Decision by Municipal Council Quickscan Assessment of the feasibility of the plan

Go/ NoGo

Go/ NoGo

Masterplan

Quickscan

Detailphase

Project proposal

Detail-phase

Participation of inhabitants and companies

Developing precise figures

Go/ NoGo

Project proposal

A solid business case with approval from (public) financiers

Decision by municipal council

Independent financial audit after council approval

Go/ NoGo

Enber – how to proceed

- How to proceed, after establishing a municipal energy company
- 6 (main) steps to "start digging"
- Source strategy
- Financial model





HOW TO START?

IN 6 STEPS TO BUILDING



STEP 1: ROLE DETERMINATION

What is my role as a municipality within the heat transition?



STEP 4: DECISION MAKING

Inform colleagues, the executive board, and the council, and proceed to decision-making



STEP 2: MASTERPLAN

Create a master plan at the municipal level and prioritize



STEP 5: ENGINEERING

Develop the details and engineer the first project



STEP 3: IMPACT

What is the financial and organizational challenge that comes with it?



Start construction of phase 1 of the first project





STEP 1 ROLE DETERMINATION



STEP 1: ROLE DETERMINATION

What is my role as a municipality within the heat transition?

- What role do you take as a municipality?
- Do you establish your **own energy company**, or do you collaborate with one or more **private companies**?
- How do you engage with energy cooperatives?
- How do you ensure the right level of control and governance





STEP 2Masterplan

STEP 2: MASTERPLAN

Create a master plan at the municipal level and prioritize

- Create a plan for the entire municipality
- Determine the most promising cities/villages and start there.

Pay attention to

- The highest **heat demand** per square meter
- The availability and **location of heat sources**.
- The presence of large consumers/ housing corporations

"PLAN BIG, START SMALL"

Jens Andersen

Director of Næstved





HEAT-DEMAND DENSITY FOR EACH 30000 **AREA/NEIGHBORHOOD** 25000 20000 MWh/km2 15000 **GOOD FAIR** 10000 **5000 AREA'S/ NEIGHBORHOOD**

ADVANTAGES

OF A MASTERPLAN

- Creates clarity where collective heating is feasible.
- Phased development makes it manageable (financially and organizationally).
- Starting with the most promising real estate in the most promising neighborhood leads to faster return on investment. Early success leads to:
 - > Higher chance of positive decision-making on further expansion of heating network.
 - Public trust and thus reduces possible resistance to collective heating in subsequent phases.
- Even less 'profitable' real estate/neighbourhoods that do not independently qualify for collective heating may be feasible as part of a larger municipal heating network, as long as this does not materially affect the affordability of the whole.
- Informed choice of investments in oversizing of infrastructure for scalability possible. Aims to realize efficient growth of heating network.

WATCH OUT!

Any surplus yield from the most promising neighborhood/property will not be used directly for price reduction but as a source of financing for the development of the subsequent phases.





Now it's time for...

Vragen

Questions

og and

Discussies

Discussions

Diskussioner

en

Spørgsmål



Developing the Financial Model



HOW TO START/CONTINUE?

IN 6 STEPS TO BUILDING



STEP 1: ROLE DETERMINATION

What is my role as a municipality within the heat transition?



STEP 4: DECISION MAKING

Inform colleagues, the executive board, and the council, and proceed to decision-making



STEP 2: MASTERPLAN

Create a master plan at the municipal level and prioritize



STEP 5: ELABORATION

Develop the details and engineer the first project



STEP 3: IMPACT

What is the financial and organizational challenge that comes with it?



STEP 6: START CONSTRUCTION

Start construction of phase 1 of the first project





STEP 3 FINANCIAL AND ORGANIZATIONAL IMPACT



STEP 3: IMPACT

What is the financial and organizational challenge that comes with it?

- Mapping all projects to determine the financial impact on the municipality
- Including a general timeline for execution
- Tracking progress towards objectives
- Providing insight into the financial impact
- Sequentiality in finances/resources.
- Based on these follow through a decision-making process





STEP 3

Balans Equity in revolving development fund

Laagste waarde	Alle projecten	€	(18.650.961)
Jaar van Laagste waarde	Alle projecten		2028
Hoogste waarde	Alle projecten	€	12.035.864
Jaar van Hoogste waarde	Alle projecten		2041



Financial year	
Boekingen - Equity in	Project 1 Development
Boekingen - Equity in	Project 2 Development
Boekingen - Equity in	Project 3 Development
Boekingen - Equity in	Project 4 Development
Boekingen - Equity in	Project 5 Development
Boekingen - Equity in	Project 6 Development
Boekingen - Equity in	Project 7 Development
Boekingen - Equity in	Project 8 Development

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€	(1.723.611)	\$	2.068.333
£	(4.630.055)	€	5.556.066
€	(1.771.544)	\$	2.125.853
€	(3.825.044)	€	4.590.053
3	(3.473.879)	€	4.168.655
6	(3.154.312)	\$	3.785.175

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STEP 4 DECISION MAKING



STEP 4: DECISION MAKING

Inform colleagues, the executive board, and the council, and proceed to decision-making

On the basis of:

- Role (Step 1)
- Masterplan (Step 2)
- Impact (Step 3)
- Rationale
- Confidence









STEP 5: ENGINEERING

Develop the details and engineer the first project

- Danish approach vs Dutch approach
- Differences in sourcestrategy
- Standardized prices/approach



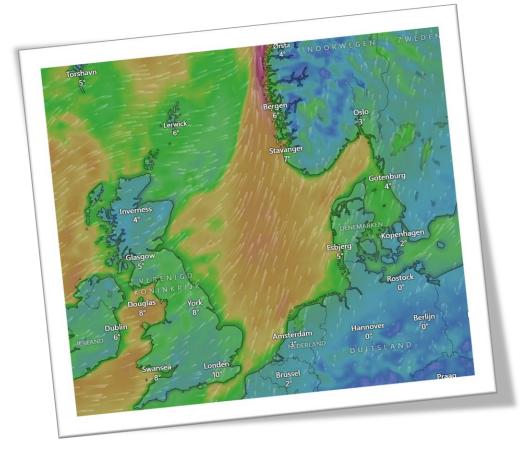




STEP 5 ENGINEERING

- Example: Sønder Felding (Denmark),
- Approximately 700 connections,
- Public district heating network
- Oil-fired boiler system, alongside a biomass boiler (wood chips from the surrounding area).
- Air-water heat pump + electric boiler + accumulation tank
- 3 employees







Scenario:

- In 3 days, it will be windy, which will result in a high supply of wind energy and cause prices to drop, or even lead to negative electricity prices.
- The buffer tank will be emptied of the stored heat, and the heat pump system will be activated, along with the electric boiler if necessary.
- The system runs at full capacity, storing both heat and euros.
- It also provides the necessary balancing for the local electricity grid.
- EUR 50,000 earned in one week





STEP 5 ENGINEERING



- Energy storage provides a time shift of electricity from surplus to deficit hours
- Lower power price curves
- Simulate this in your financial model
- Add to financial models
- More feasible businesscases





FINANCIAL MODEL

Ensure an appropriate financing structure, in which:

- At the moment, mostly 100% debt financing with government guarantees
- Too much interest and repayment pressures
- Lack of cashflow
- Alternative structuring (loans/equity)
- Equity has an IRR/ return instead of interest

Focus on cash flows, as with all sustainable energy projects (Project Finance)



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Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 W of power pri of gas price indexation per indexion per index index	ce year year	3,00 2,00 1,00 10,0% 0,0% 0,0% 1,000 1,000 1,0000	3.00 0.43 10.0% 10.0% 10.0% 0.096 1,0000 1,0000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,0000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 W of power pri % of gas price indexation per index index index indexation per indexation per indexation per indexation per indexation per indexation per indexation per	ce year year year	3,00 2,00 1,00 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 0,0% 1,000 1,0000 0,0% 0,0%	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 1,000 0,0% 0,0%	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 0,0% 1,0000 1,0000
Directiekosten [X] Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 Go f power pri Go f gas price indexation per indexation per index indexation per ind	ce year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 W of power pri % of gas price indexation per index index index indexation per indexation per indexation per indexation per indexation per indexation per indexation per	ce year year year	3,00 2,00 1,00 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 0,0% 1,000 1,0000 0,0% 0,0%	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 1,000 0,0% 0,0%	105.24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten X		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 Go f power pri Go f gas price indexation per indexation per index indexation per ind	ce year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,0000 1,0000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of gas taxes Energy taxes index Gas taxes index [Selective Index In		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 Go f power pri Go f gas price indexation per indexation per index indexation per ind	ce year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40.00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of gas taxes Energy taxes index Gas taxes index [Selective Index In		EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 W of power pri of gas price indexation per indexation per index index index index index index index	ce year year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of gas taxes Indexation of gas taxes Energy taxes index Gas taxes index Gas taxes index	2,0%	EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 Go f power pri Go f gas price indexation per indexation per index indexation per ind	ce year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40.00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index CPI	2,0% 0,0%	EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 W of power pri of gas price indexation per indexation per index index index index index index index	ce year year year year year	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index tion CPI None	0,0%	EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 W of power pri of gas price indexation per index index index index index index index index index of power pri of gas price indexation per index index index index index of power pri of gas price indexation per index index index index of power pri of gas price index index index index of power pri of gas price index index index index of power pri of gas price index index index of power pri of gas price index index index of power pri of gas price index index index of power pri of gas price index index index of gas price index ind	year year year year 2.023 2.023	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten [X] City and Gas price scenarios Power Price Curves High Central Low Gas Price Curves High Central Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index tion CPI None O&M	0,0% 1,0%	EUR / MWh EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 W of power pri % of gas price indexation per index	year year year year 2.023 2.023 2.023	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105.24 40.00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000
Directiekosten X	0,0%	EUR / MWh EUR / MWh EUR / MWh EUR / m3 EUR / m3 EUR / m3 W of power pri of gas price indexation per index index index index index index index index index of power pri of gas price indexation per index index index index index of power pri of gas price indexation per index index index index of power pri of gas price index index index index of power pri of gas price index index index index of power pri of gas price index index index of power pri of gas price index index index of power pri of gas price index index index of power pri of gas price index index index of gas price index ind	year year year year 2.023 2.023	50,00 40,00 3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0% 1,000 1,000	105,24 40,00 3,00 0,43 1,00 10,0% 0,0% 1,000 1,000 0,0% 1,000 1,000

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FINANCIAL MODEL

"Interaction between technology and finance makes projects feasible"



Model period ending		Error chks		1-okt-23	•	1-apr-24	1-
_	59	Track chgs		31-dec-23	31-mrt-24	30-jun-24	30-9
Period phaselabel	1	Alerts		Fin Close	Construction	Construction	Constru
Period phaselabel fase 1				Fin Close	Construction	Construction	Constru
Period phaselabel fase 2				Fin Close	Pre-Construction	Construction	Constru
Period phaselabel fase 3				Fin Close	Pre-Construction	Construction	Construc
Period phaselabel fase 4				Fin Close	Pre-Construction		Construc
	Constant	Unit Tota	st.	2023		2024	Oonstruc
	Constant	%	100%	0,0%	0,0%	0,0%	8,3%
Spreaded profile							
Immediate profile		%	100%	0,0%	0,0%	0,0%	100,0
End of construction profile	1	%	100%	0,0%	0,0%	0,0%	0,09
Spare 1	ı	%	100%		ļ		
Spare 2	1	%	100%]		
Spare 3		%	100%		1		
Spare 4	ı	%	100%				
Spare 5	i	%	100%				
				[
Fase 4 Investment profiles add up to 100%		check					
Fase 4 Investment profiles only run during construction		check		_			
rate Tax							
iate iax							
Corporate Tay tariff step up		EUR		200,000	200,000	200.000	200.0
Corporate Tax tariff step-up				200.000	200.000	200.000	200.0
Corporate Tax low tariff		%		19,0%	19,0%	19,0%	19,0
Corporate Tax high tariff		%		25,8%	25,8%	25,8%	25,8
Earningsstripping min. % of EBIT		%		20,0%	20,0%	20,0%	20,0
Earningsstripping min. interest amount		EUR		1.000.000	1.000.000	1.000.000	1.000.
dependent Operational costs (OPEX)							
Operational date flag	-	flag	120 -	_		-	
Asset management	1	EUR	741.105		[
Directiekosten		EUR	1.801.823		·		
[x]	ı	EUR	1.001.020				
(LOTT				'	
Power Price Curves		5115 / 1 1 1 1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
High		EUR / MWh		55,00	55,00	55,00	55,00
Central		EUR / MWh		50,00	105,24		
Low		EUR / MWh		40,00		105,24	
					40,00	40,00	
Gas Price Curves					40,00		105,2 40,0
High						40,00	40,0
		EUR/m3		3,00	3,00	40,00 3,00	
Central		EUR / m3 EUR / m3				40,00	40,0
Central Low				3,00	3,00	40,00 3,00	40,0 3,00
		EUR / m3		3,00 2,00	3,00 0,43	40,00 3,00 0,43	40,0 3,00 0,43
		EUR / m3		3,00 2,00	3,00 0,43	40,00 3,00 0,43	3,00 0,41 1,00
Low Margin power supplies		EUR / m3 EUR / m3 % of power price		3,00 2,00 1,00	3,00 0,43 1,00	3,00 0,43 1,00	3,01 0,41 1,00
Low		EUR / m3 EUR / m3		3,00 2,00 1,00	3,00 0,43 1,00	40,00 3,00 0,43 1,00	3,00 0,41 1,00
Low Margin power supplies Margin gas supplier		EUR / m3 EUR / m3 % of power price % of gas price		3,00 2,00 1,00 10,0% 10,0%	3,00 0,43 1,00 10,0%	3,00 0,43 1,00 10,0%	3,0 0,4 1,0 10,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity		EUR / m3 EUR / m3 % of power price % of gas price indexation per year		3,00 2,00 1,00 10,0% 10,0%	3,00 0,43 1,00 10,0% 10,0%	3,00 0,43 1,00 10,0% 10,0%	3,0 0,4 1,0 10,0 0,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas		EUR / m3 EUR / m3 % of power price % of gas price indexation per year indexation per year		3,00 2,00 1,00 10,0% 10,0% 0,0%	3,00 0,43 1,00 10,0% 10,0%	40,00 3,00 0,43 1,00 10,0% 10,0%	40,0 3,0 0,4 1,0 10,0 10,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year indexation per year index	1	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0%	3.00 0,43 1,00 10,0% 10,0% 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0%	3,0 0,4 1,0 10,0 10,0 0,0 0,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas		EUR / m3 EUR / m3 % of power price % of gas price indexation per year indexation per year	1 1	3,00 2,00 1,00 10,0% 10,0% 0,0%	3,00 0,43 1,00 10,0% 10,0%	40,00 3,00 0,43 1,00 10,0% 10,0%	40,0 3,0 0,4 1,0 10,0 10,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index	_	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,0000 1,0000	3,0 0,4 1,0 10,0 10,0 0,0 0,0 1,00
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index	_	3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000 1,0000 0,0%	40,0 3,0 0,4 1,0 10,0 0,0 0,0 1,00 1,00
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index	_	3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,0000 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 1,00 1,00 0,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index	_	3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000 1,0000	3,00 0,43 1,00 10,0% 10,0% 0,0% 0,0% 1,0000 1,0000 0,0%	40,0 3,0 0,4 1,0 10,0 0,0 0,0 1,00 1,00 0,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index indexation per year indexation per year indexation per year	1	3,00 2,00 1,00 10,0% 10,0% 0,0% 1,000 1,000 1,000 0,0%	3.00 0,43 1,00 10,0% 10,0% 0,0% 1,0000 1,0000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,0000 0,0% 0,0% 0,0%	40,0 3,0 0,4 1,0 10,0 0,0 0,0 1,00 0,0 0,0 0,0
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index indexation per year indexation per year indexation per year indexation per year	1	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index indexation per year indexation per year indexation per year indexation per year	1	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index		EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index index indexation per year indexation per year indexation per year index index	1 1	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index tion	2,0%	EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index index indexation per year index indexation per year index indexation per year index index index	1 1 1 se year:	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index tion CPI	2,0% 0.0%	EUR / m3 EUR / m3 % of power price % of gas price indexation per year index	1 1 1 se year:	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
Low Margin power supplies Margin gas supplier Indexation of network costs electricity Indexation of network costs gas Network electricity index Network gas index Indexation of energy taxes Indexation of gas taxes Energy taxes index Gas taxes index tion CPI None	0,0%	EUR / m3 EUR / m3 % of power price % of gas price indexation per year index index index indexation per year index index index index index index index index index	1 1 1 se year: 2.023 2.023	3,00 2,00 1,00 10,0% 10,0% 0,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 0,0%	3,00 0,43 1,00 10,0% 10,0% 0,0% 1,000 1,000 0,0% 1,0000	40,0 3,0 0,4 1,0 10,0 0,0 0,0 0,0 0,0 0,0 0,
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STEP 6 START CONSTRUCTION



Start construction of phase 1 of the first project

Just start digging







Announcement and invitation



We would like to invite you to participate in the Confidence conference at...

Date: 10 April 2025

Location: Martinuskerk in Sneek,

Netherlands

During the day, we will give several workshops and panel discussions. Meet and greet with our experts and interesting speakers

Please be welcome,

On behalf of the Confidence project team

Dialogue

Questions:

How do you feel about this development, does it help you move forward?

Where is your concern
What gives you confidence
What follow-up steps do you see



