Leading the Green Transition

– Innovative strategies driving sustainable environmental progress

vestfor@vestfor.dk
vestfor.dk

Vestforbrænding I/S
Greater Copenhagen

Meeting Program

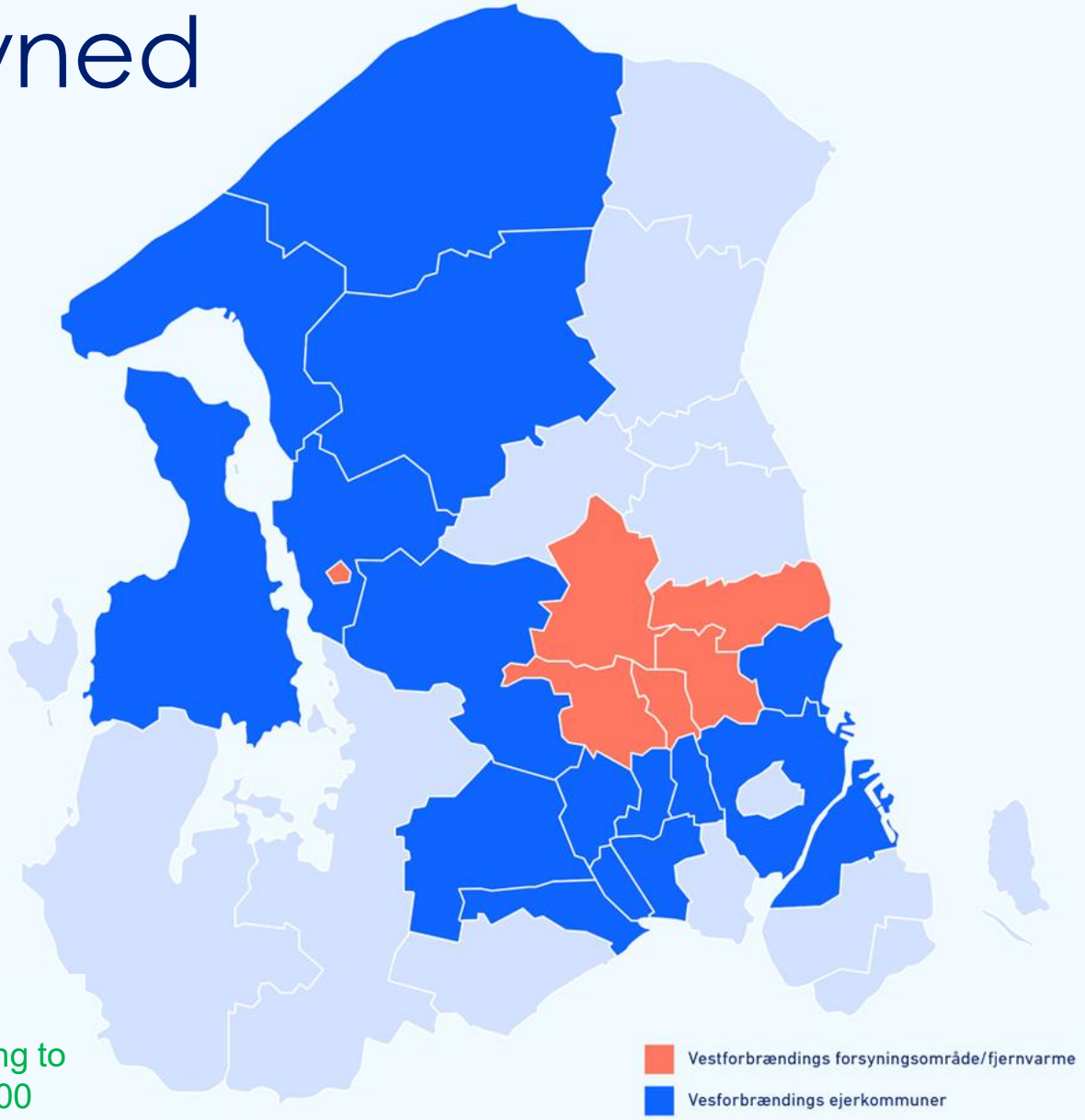
- Tour of the plant
- Keynote: Vestforbrænding in the Green Transition
  - Company in brief
  - Our Strategy 2030
  - Heatplan 2030
  - Navigating Challenges and Building Support
- Q&A and Dialogue

Vestforbrænding in the Green Transition

vestfor@vestfor.dk
vestfor.dk

Vestforbrænding is owned by 19 municipalities

Vestforbrænding er Danmarks største affalds- og energiselskab. Vi er ejet af 19 kommuner, som vi hjælper med at håndtere affald fra ca. 1 million borgere. Affaldet bliver indsamlet ved husstande, på genbrugsstationer og i affaldskuber og bliver udsorteret til genanvendelse eller brændt og energiudnyttet til elektricitet eller fjernvarme.



962.000
Borgere

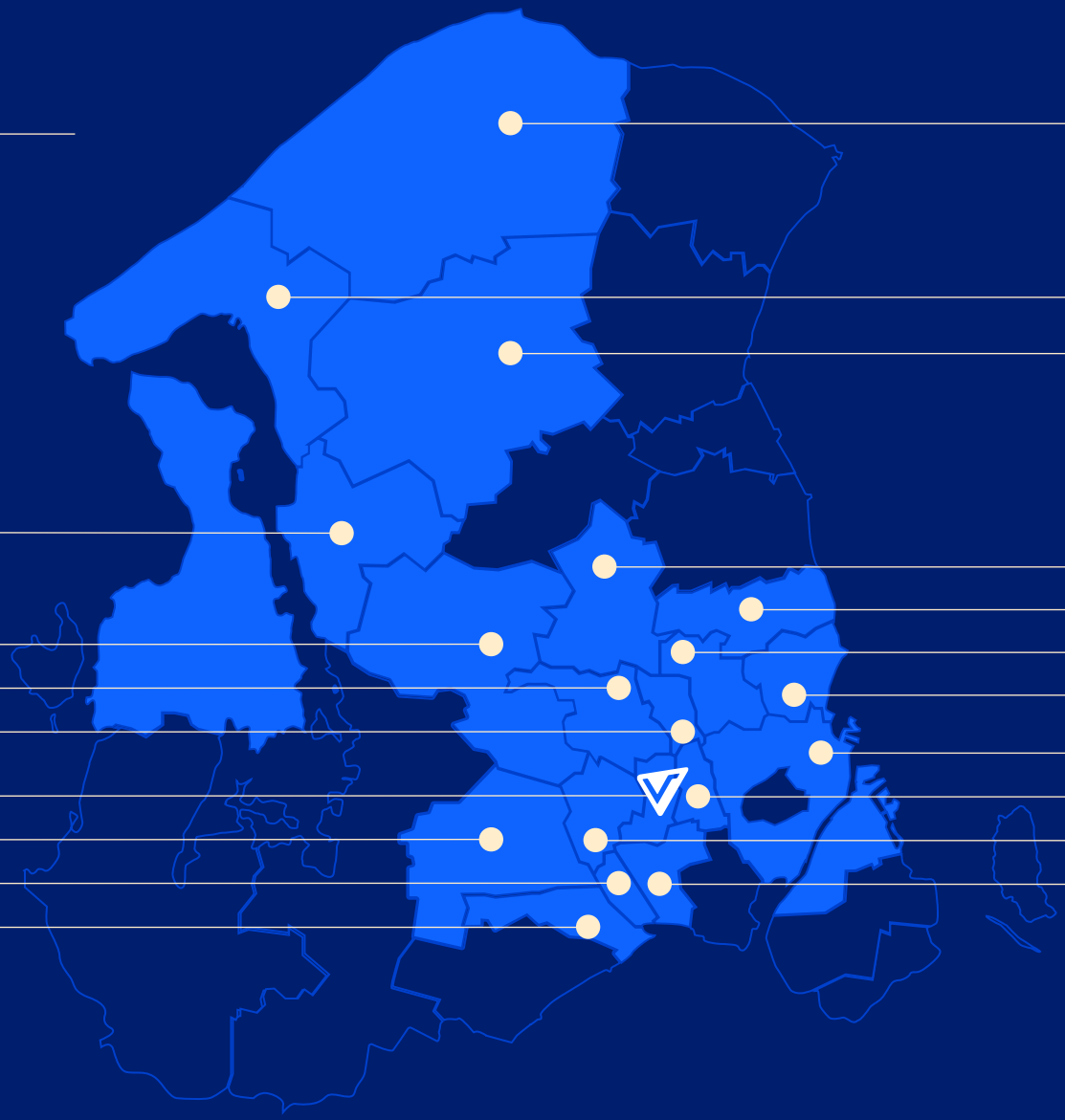
Ca. 500
Medarbejdere

2.7 million
Besøgende på GBS

1000.000
Corresponding to approx. 70,000 household consumption

Who we are

Municipalities that own Vestforbrænding



Gribskov

Halsnæs

Hillerød

Frederikssund

Furesø

Lyngby-Taarbæk

Egedal

Gladsaxe

Ballerup

Gentofte

Herlev

Copenhagen

Glostrup

Rødovre

Høje-Taastrup

Albertslund

Vallensbæk

Brøndby

Ishøj

Our leadership team

Steen Neuchs Vedel

Direktør

Jan Petersen

Stabschef

Yvonne Amskov

Områdechef
Genbrug & Genanvendelse

Lars Helstrup Jensen

Økonomi- og administrationschef

Laila Gyldenhøj

HR-, miljø- og formidlingschef

Per Wulff

Områdechef
Strategisk Energiudvikling

Heine Winding Lauenborg

Kommerciel chef

Bjørk Paamand Olsen

Områdechef
Grøn Varmeforsyning

Vegard Hetting

Områdechef
Drift og produktion

We are vertically integrated

Vestforbrænding has full vertical integration within the value chain:

- Recycling services
- Waste collection
- Hazardous materials handling
- Waste combustion
- District heating distribution
- Heat customer service

Vestforbrænding's Role as a Strategic Actor

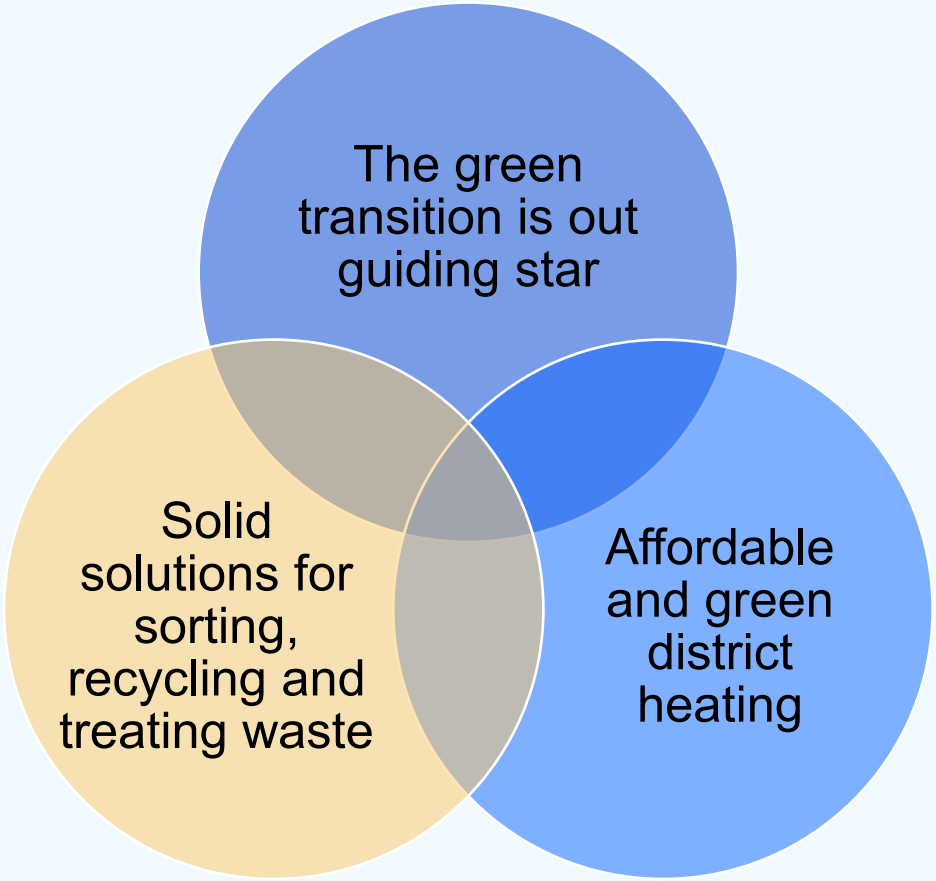
Sustainable Energy Leadership

- Vestforbrænding leads initiatives that promote sustainable energy and environmental responsibility in Denmark.

Driving Energy Transition

- The company actively shapes Denmark's energy transition through innovative environmental programs and solutions

We pass on good energy



Strategy 2030: Vision, Progress, and Varmeplan 2030

vestfor@vestfor.dk
vestfor.dk

Strategy 2030

Vestforbrænding has sky-high ambitions for the future, and we have initiated concrete initiatives to achieve them.

Green district heating for more people

2,000,000 MWh district heating
39,000 new customers

CO2-neutral waste treatment and heat production

500,000 tonnes of CO2 captured

More recycling and reuse

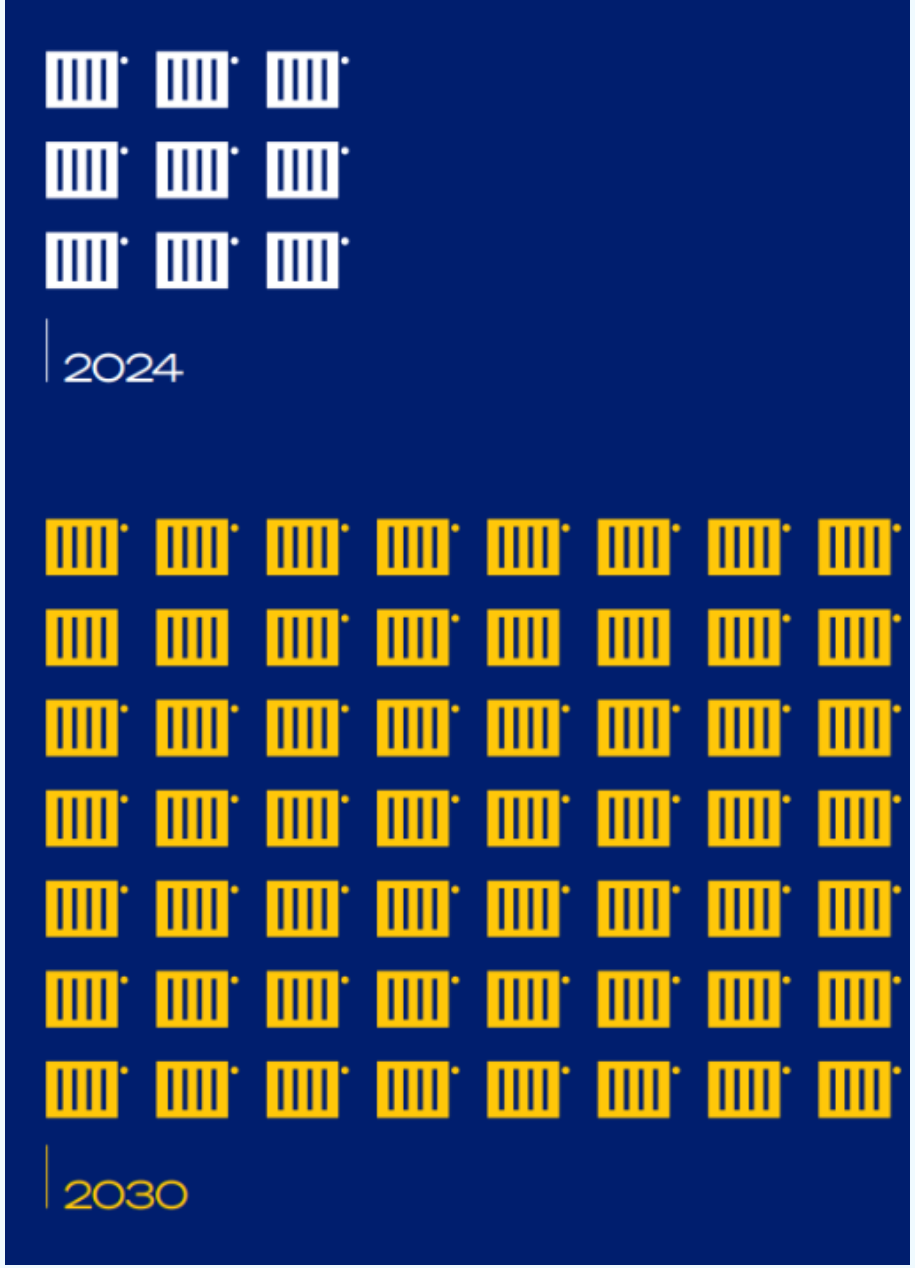
30,000 tonnes for reuse
60% for real recycling

Green district heating for more people

In 2030, Vestforbrænding will supply almost twice as much district heating as in 2021. The goal is to replace at least 30,000 gas and oil boilers.

Far more citizens will have access to a cheap, stable and green heat supply.

Every day, large amounts of surplus heat from industrial plants are lost, e.g. in data centres, hospitals and wastewater treatment plants. We use this in the district heating network of the future.



We capture CO2

As a waste and energy company, we have set an ambitious goal of CO2-neutral waste incineration and heat production by 2030.

This requires collaboration with others in the value chain. Once the CO2 has been captured, we will store it in the Danish underground.

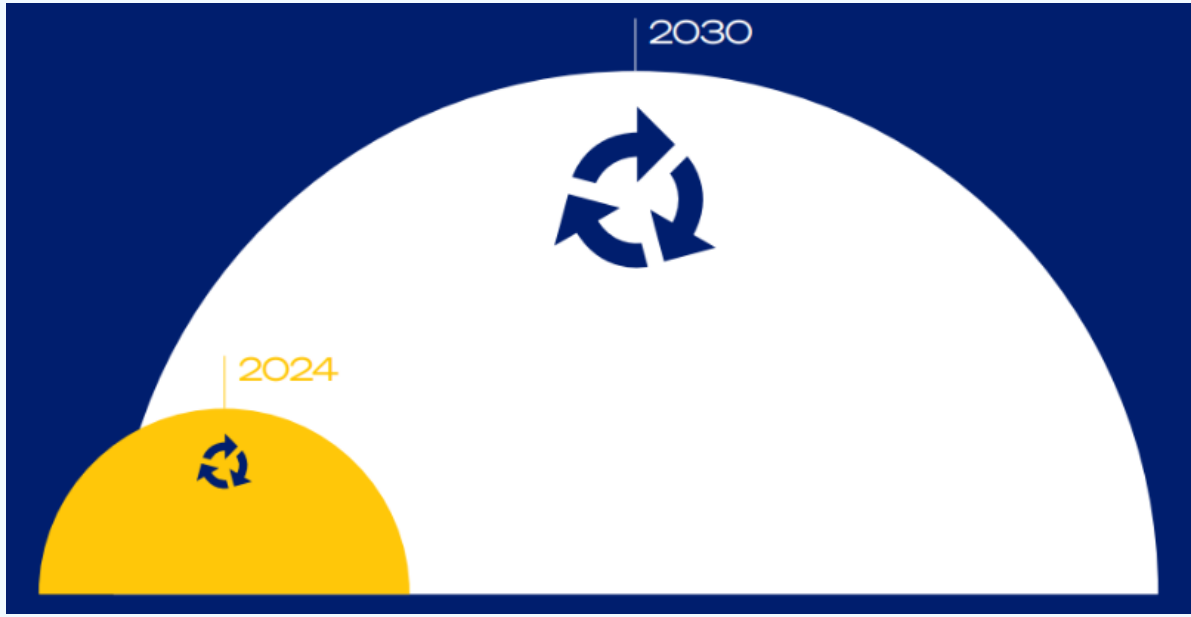
We reduce emissions by up to 500,000 tonnes per year. This corresponds to approximately 1% of the total Danish reduction target.

Recycling on a large scale

A minimum of 30,000 tonnes of objects and products will be recycled by 2030. It saves energy and materials for the production of new goods.

Large-scale real recycling requires innovative solutions in sorting, transport, finishing and marketing. At Vestforbrænding, we are leading the way, and close collaborations with the construction industry are creating results.

When we cannot reuse a product, the materials must be recycled as far as possible. We follow the government's goal for recycling a minimum of 60% household waste by 2030. It also requires close cooperation with the municipalities on waste collection.



Heatplan 2030

vestfor@vestfor.dk
vestfor.dk

Coherent value chain – for the benefit of all owner municipalities

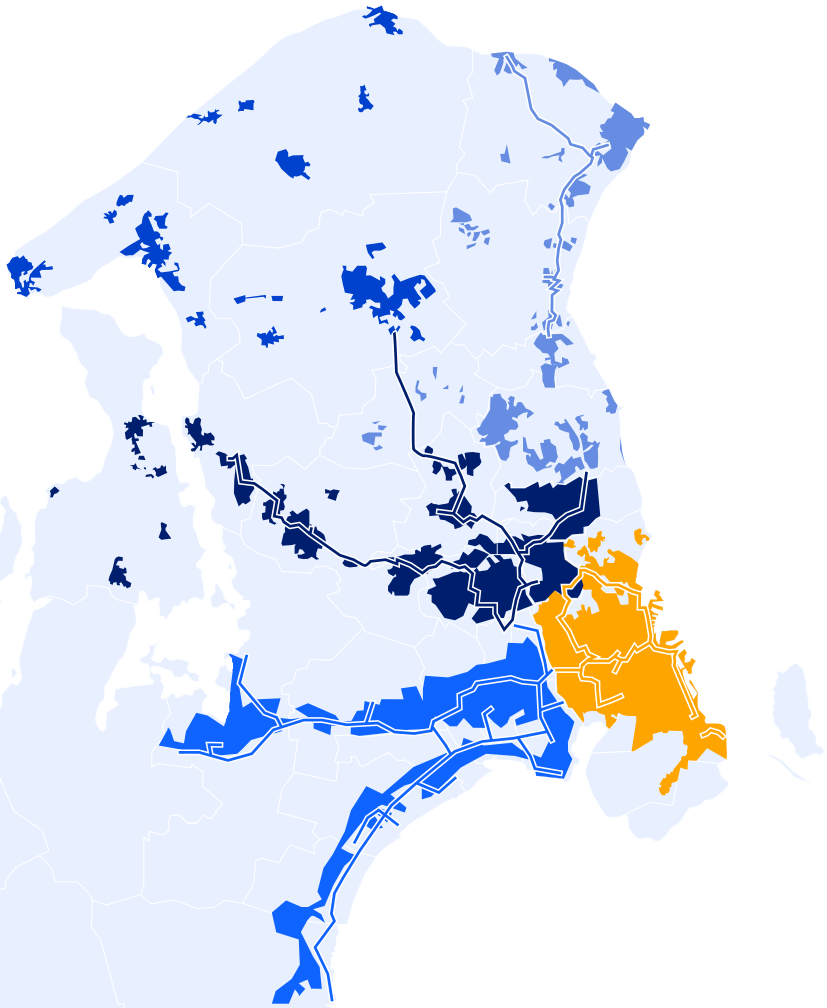
VEKS Forsynings-område

CTR Forsynings-område

VF Varmeplan 2030

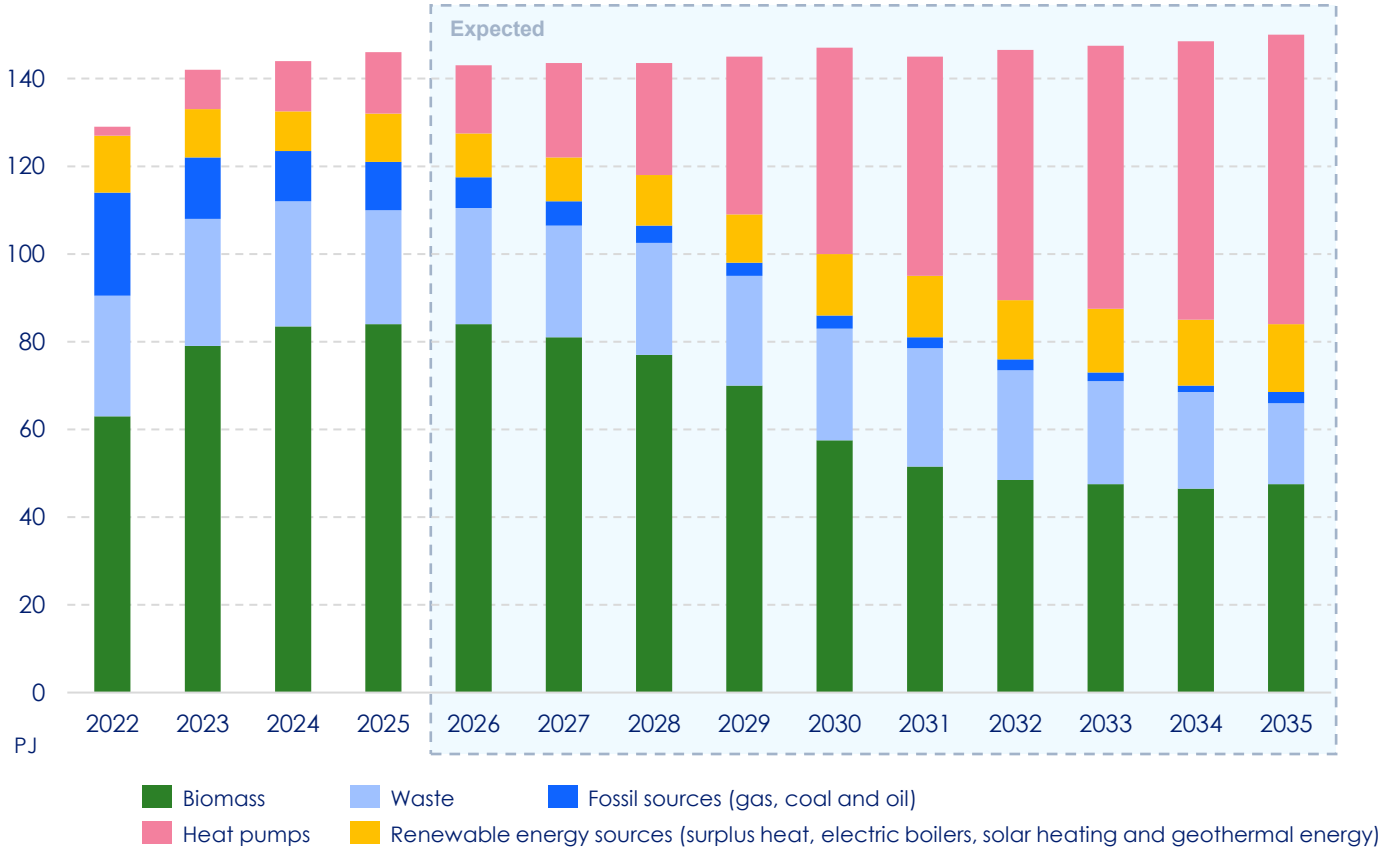
Northern owner-Municipalities

Norfors og Helsingør



- Own district heating network is a unique advantage
- A strong value chain between waste treatment and district heating strengthens Vestforbrænding's competitiveness and future market position
- Selling waste heat on your own district heating network ensures a competitiveness on the waste tariff of up to 30%
- 70% of district heating production is sold in its own network – the rest is sold to VEKS and CTR

District heating sources in Denmark – prognosis



- Biomass and fossil sources are declining
- Waste heat is steady
- Heat pumps are on the rise
- New electified energy sources play a greater role

Source: Ministry of Climate, Energy and Utilities

Evolution towards coherence

1980 - 2010	2010 - 2030	2030 - 2050
Simple system, few works that deliver directly to customers. Central coal plants that supply cheap surplus heat CTR og VEKS dannes	Transmission system with different heat sources; biomass plants, waste and new heat sources. Coal disappears, biomass is phased in Larger networks provide opportunities for optimisation Sector coupling begins with electrically powered plants, such as heat pumps	A new energy system is being built – a flexible future with several different heat sources. Biomass is phased out Large grids, digitalisation, sector coupling and large heat storage reduce investment and heat prices Collaboration and size will be the key to an effective green transition with lower heat and waste prices

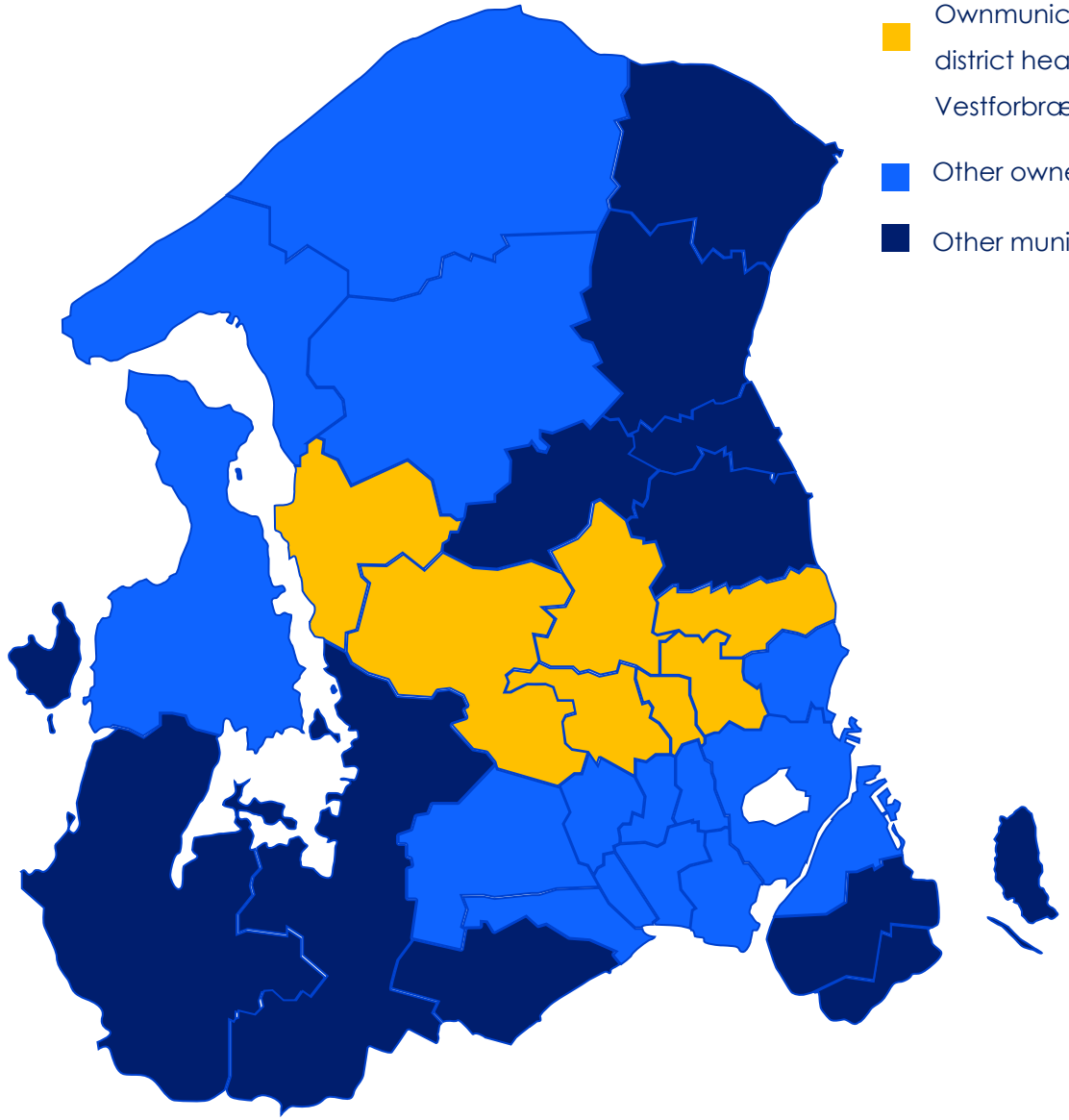
Heat plan 2030

- A master plan for realising the strategic goals
- A contribution to the municipalities' work with green transition
- An investment into our coherent value chain

We need **to 10x** our customer number and 2x our energy needs

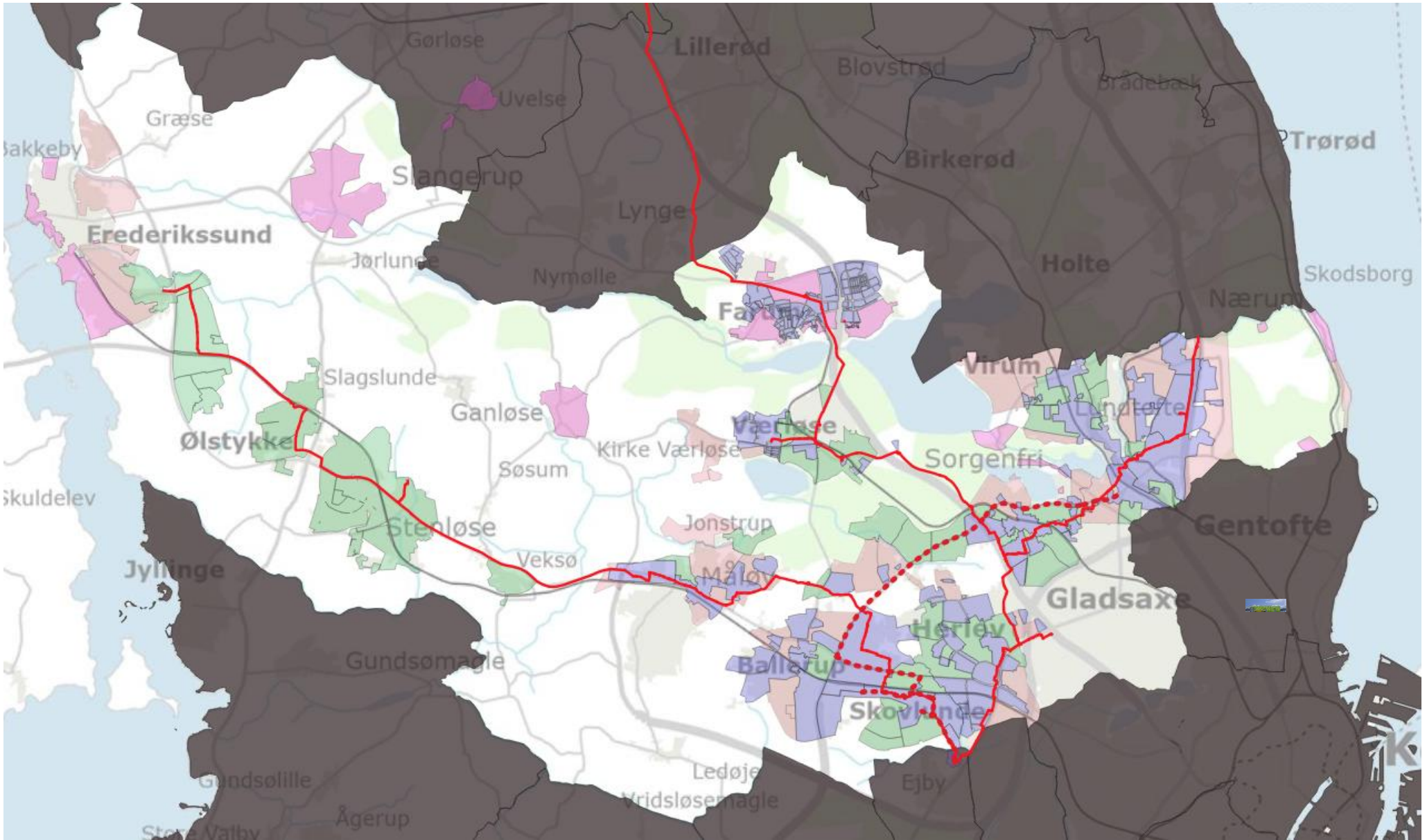
We need to lay **800+** km of new pipes

Establishment of new **production facilities**



2022	2023	2024	2025	2026	2027	2028	2029	2030	
651	1370	3015	5251	14566	19168	24728	33428	39.000	Varmeplan 2030 **Kunder tilsluttet**

Heat plan 2030 across the municipalities



Ex. fjv.

Stage 1

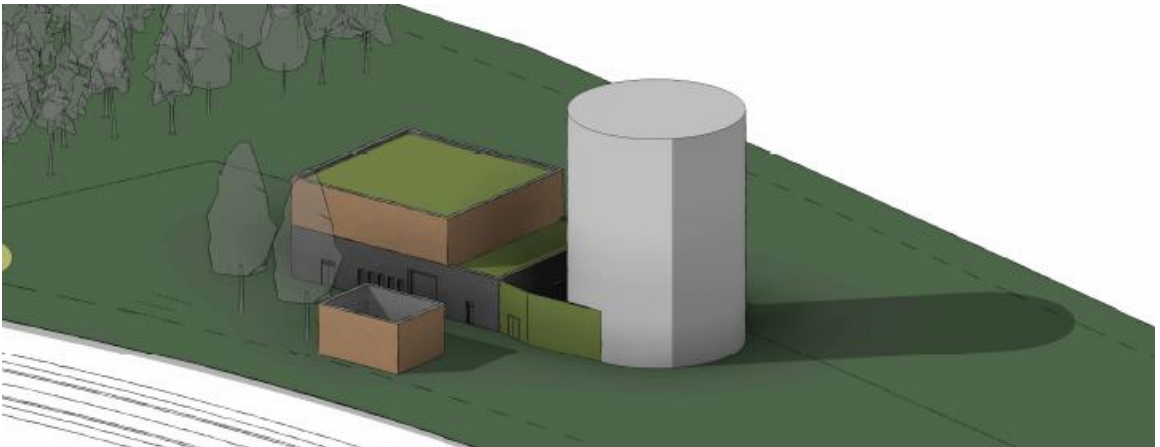
Stage 2

Future

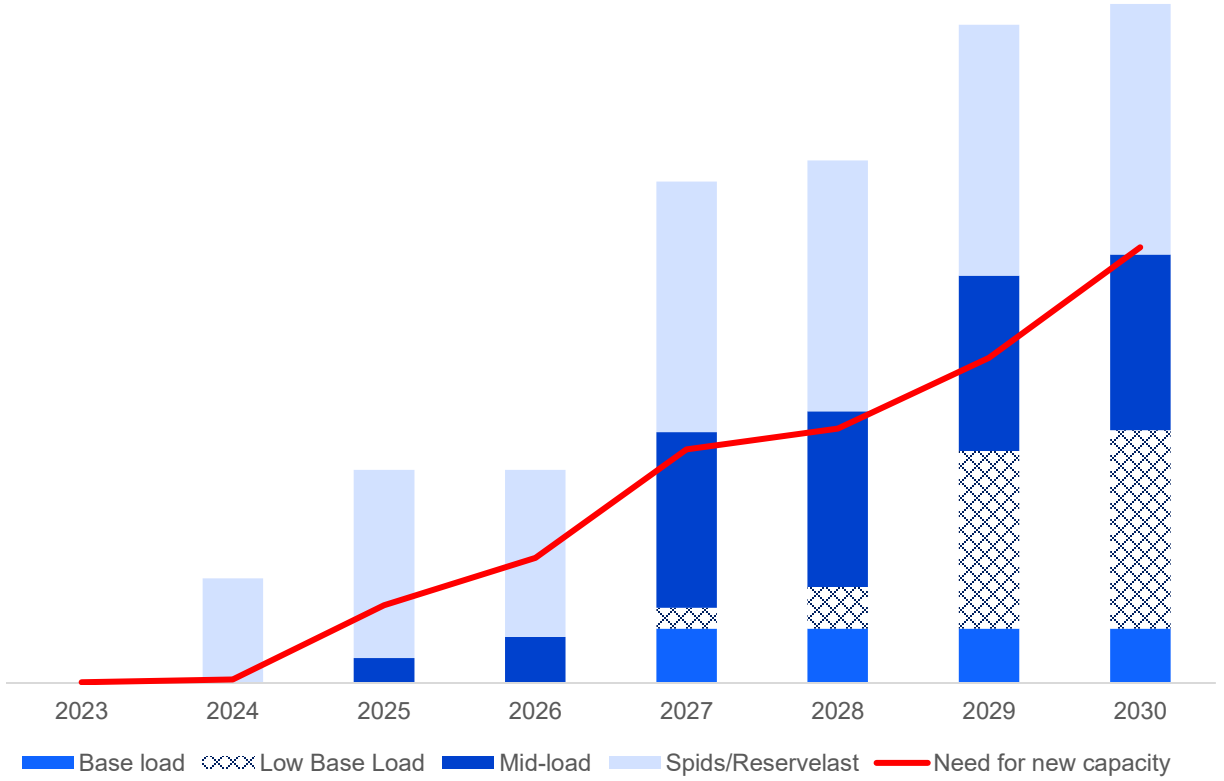
New heat production capacity

200 MW of new heat production to be established

- **Surplus heat/heat pumps**
- **Electric boilers, decemtrally located**
- **Booster pump stations**
- **Geothermal plant**
- **Heat Accumulation Steel Tanks**
- **Central electric boiler (large)**
- **Mobile central heating units for temporary supply**

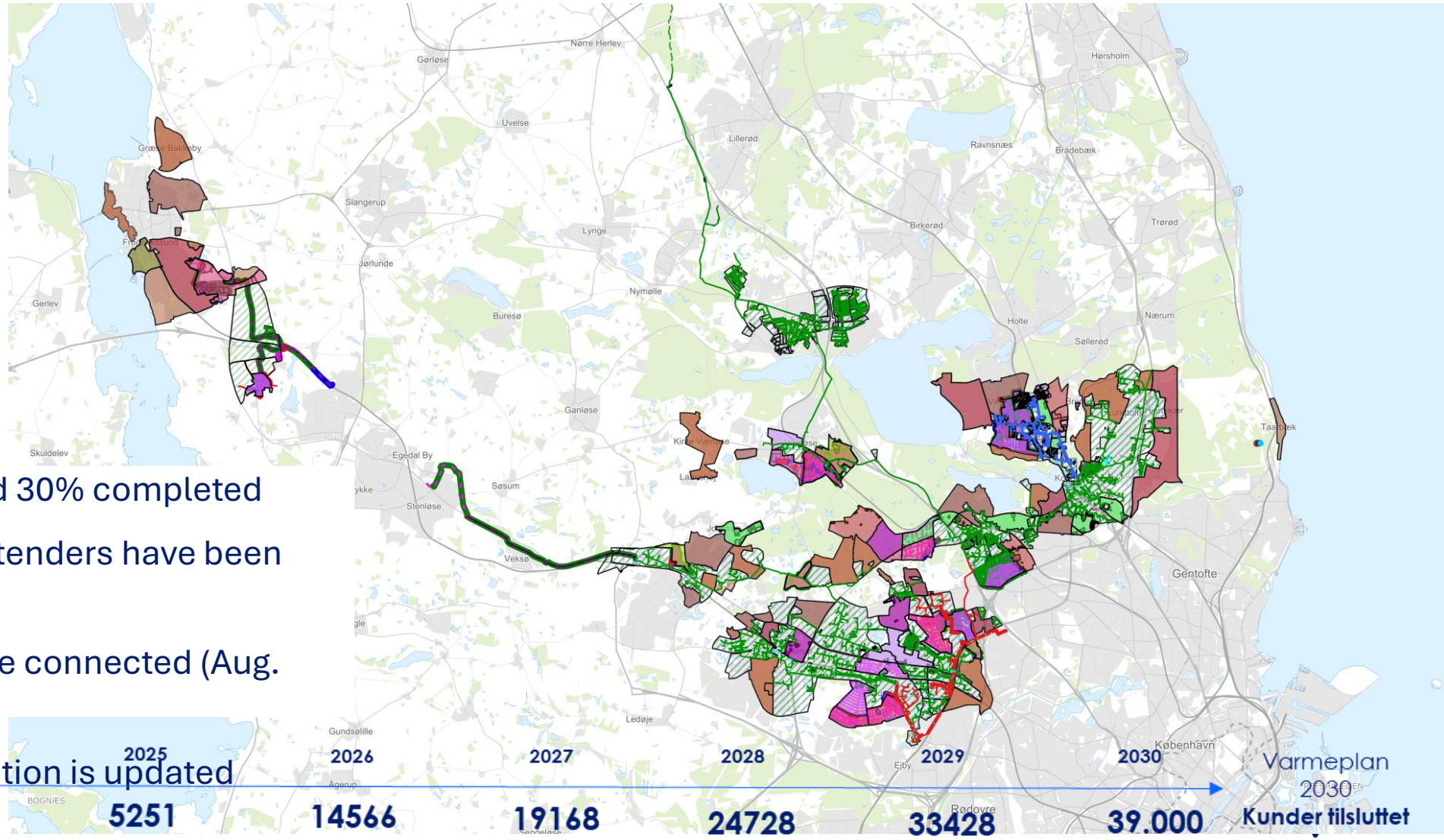


Need for new capacity and new projects by type of load



The supply for the expansion is secured until 2026/2027, when new production facilities are planned to be commissioned.

Status of the construction work



- Stage 1 is 100% sold and 30% completed
- Stage 2 is out to tender, tenders have been received
- 4,300 new customers are connected (Aug. 2025)
- The plan for heat production is updated regularly

Risk Management

Identifying risks

A dedicated system is used to visualize and systematise the treatment of potential risks early in the project process to avoid surprises during the project.

Assessment of risks

Risks are assessed in the system based on probability and consequence in six areas, thereby prioritising management effectively.

1. Security of supply
2. Reputation
3. Time
4. Economy
5. Environment
6. Health & Personal Safety)

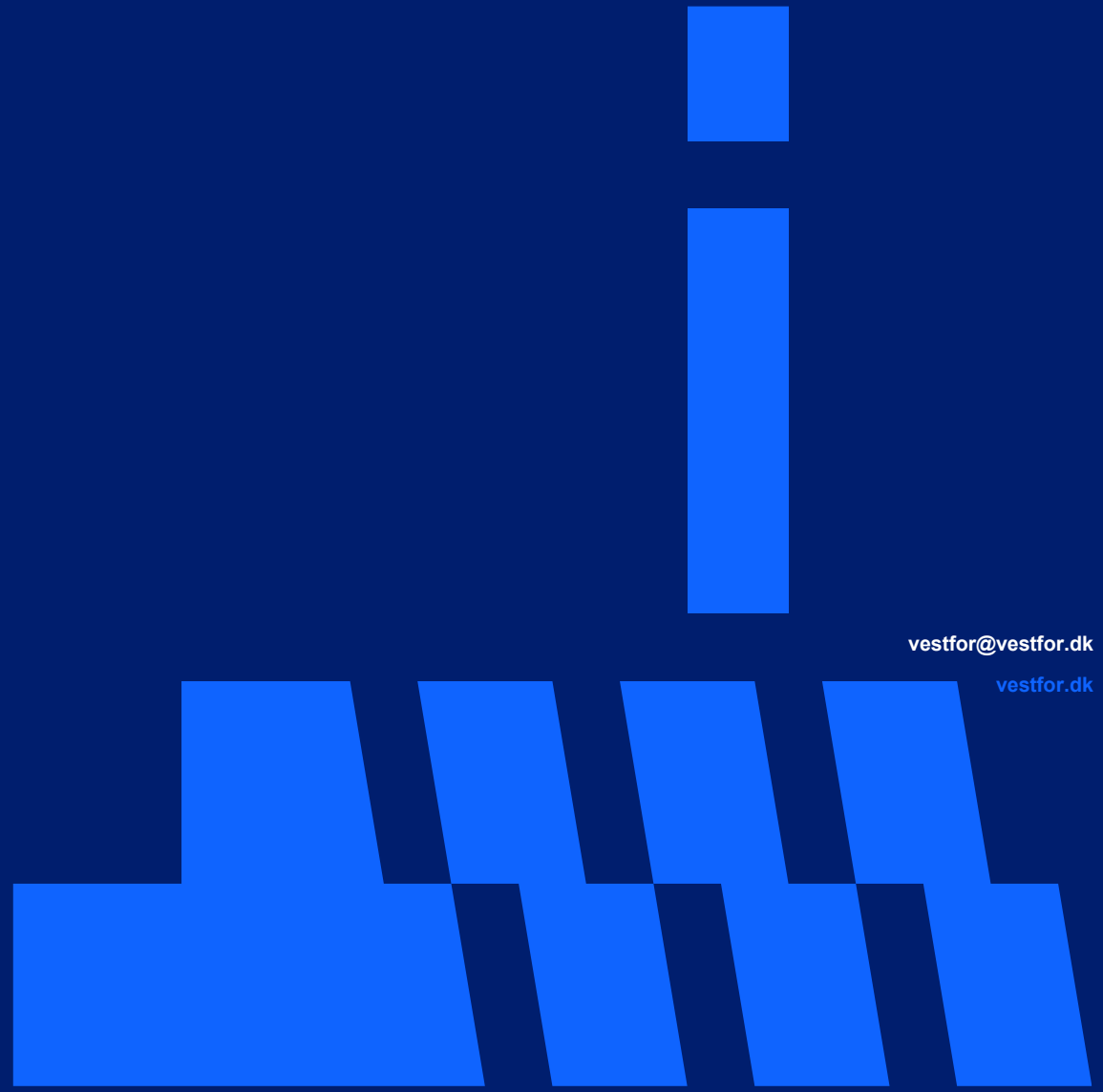
Risk management

The system is used to implement control measures that reduce project uncertainties and improve safety.

Pictures from out in the field (literally!)

Navigating Challenges and Building Support

vestfor@vestfor.dk
vestfor.dk



Integrating Sector Coupling and Waste Heat

What Is Sector Coupling

Sector coupling connects different energy sectors to optimize energy use and improve system flexibility.

Waste Heat Utilization

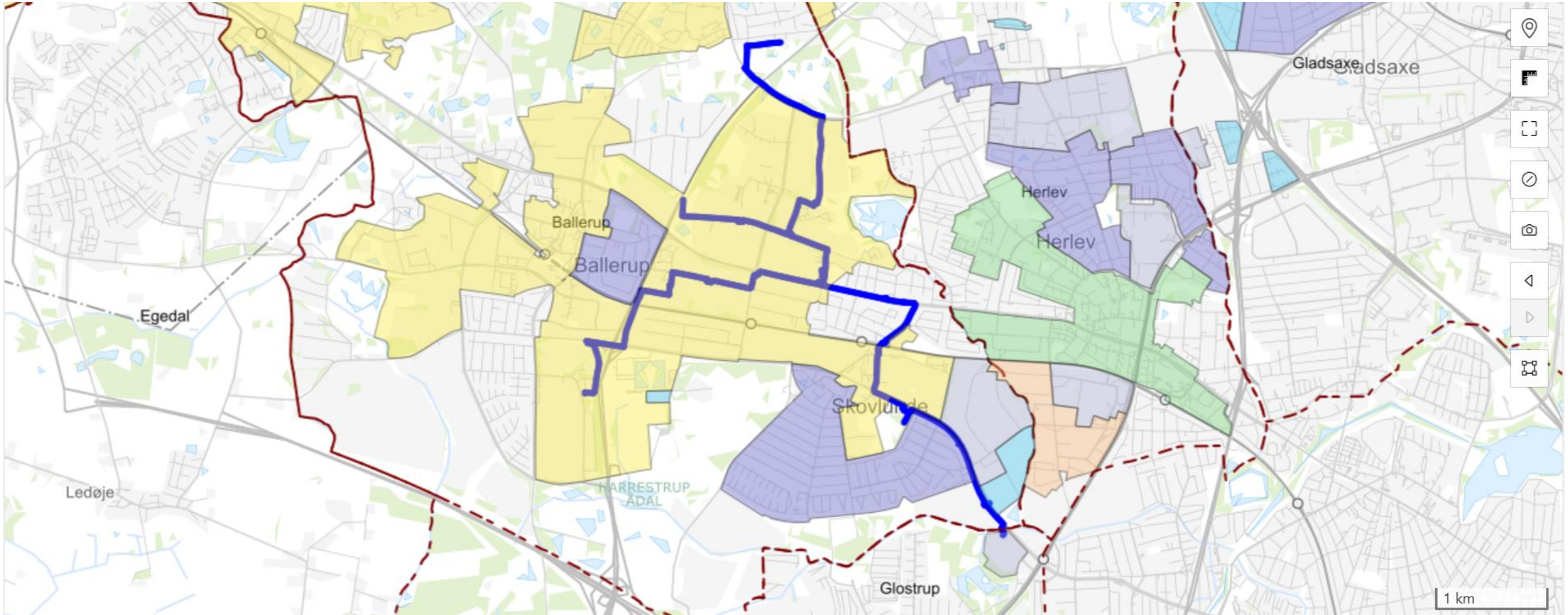
Utilizing waste heat increases overall energy efficiency and reduces greenhouse gas emissions in industrial processes.

How do we do it?

We couple up with these sectors:

- Electricity – using electricity-based production and heat storage to peak-shave
- Wastewater treatment – lowering output temperature from treatment plant with heatpumps to recover heat
- Waste incineration – cooling boiler water to recover heat
- Datacentres – cooling server farms to recover heat

A low-temperature expressway for retrofit surplus heat usage



Exploring Geothermal and Surplus Heat

Geothermal Energy

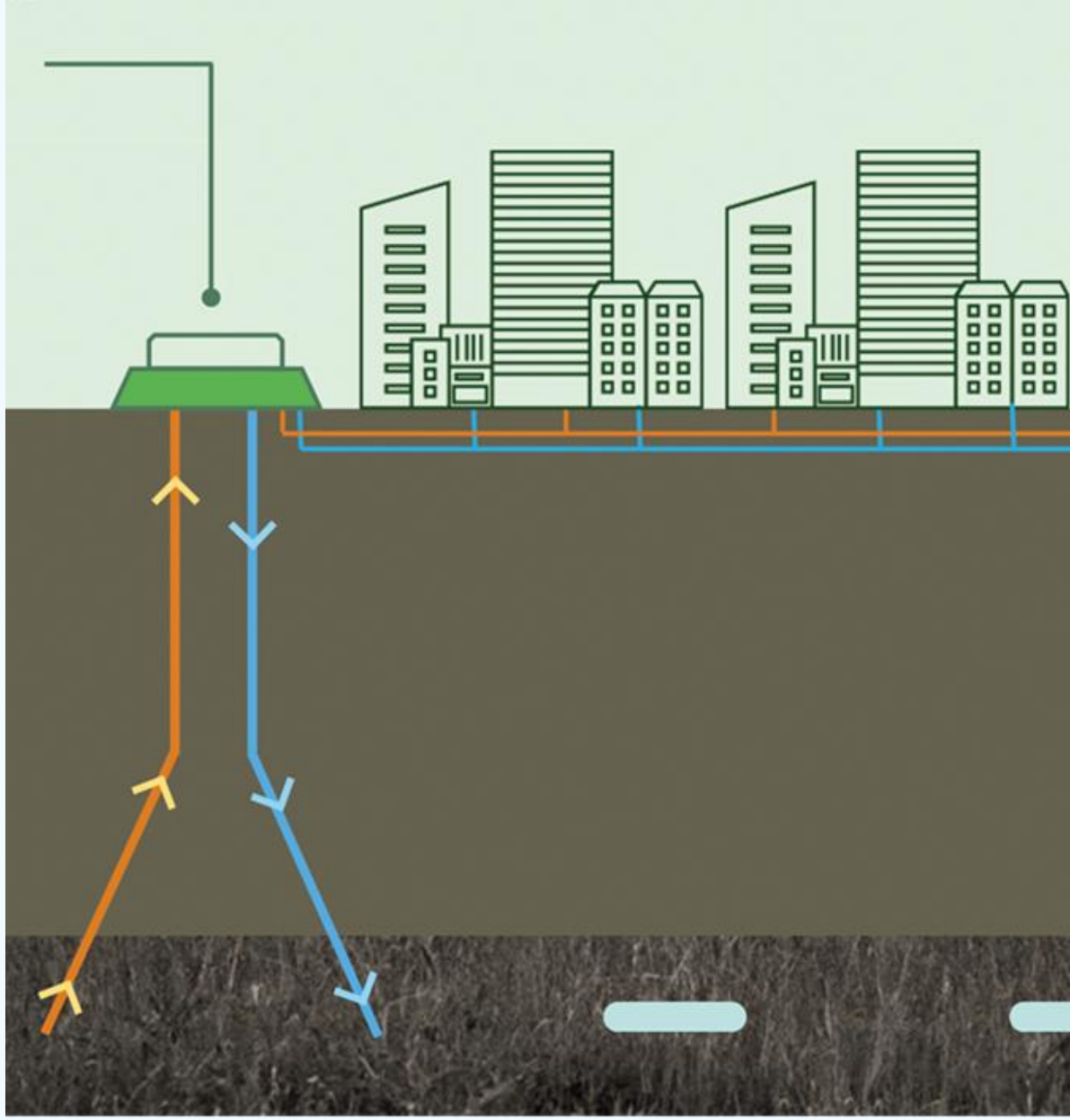
Geothermal energy projects use Earth's heat to generate sustainable and clean power.

Surplus Heat Capture

Surplus heat capture recycles waste heat to improve energy efficiency and reduce emissions.

Contribution to Renewable Energy

These projects enhance energy diversity and promote cleaner, renewable energy sources.



District heating projects grow out of one thing…

Trust is everything

Vestforbrænding handles technical conversions efficiently for district heating system integrations.

The trust contract

Customers need to trust the regulator, trusts the DH company – and each other.

How do we make that happen?

We make DH a natural monopoly, grow stepwise, and regulate to protect the existing customers.

Building trust

Transparency
Clearly communicate goals, processes, and challenges.
Share data openly (e.g., environmental impact, pricing models, project timelines).

Reliability
Deliver consistent service and meet expectations.
Demonstrate technical robustness and operational stability.

Engagement
Be very visible in the local community.
Use targeted communication strategies to address concerns and build relationships.

Competence
Demonstrate expertise through successful projects, innovation, and strategic planning. Show it, don’t tell it!

Responsiveness
Address inquiries and complaints promptly and respectfully.
Adapt to changing needs and communicate updates effectively.

In Regulation We Trust…

Danish Heat Regulation supports Trust

No-profit-no-loss + public ownership = incentive to provide lowest possible price. Freedom and responsibility!

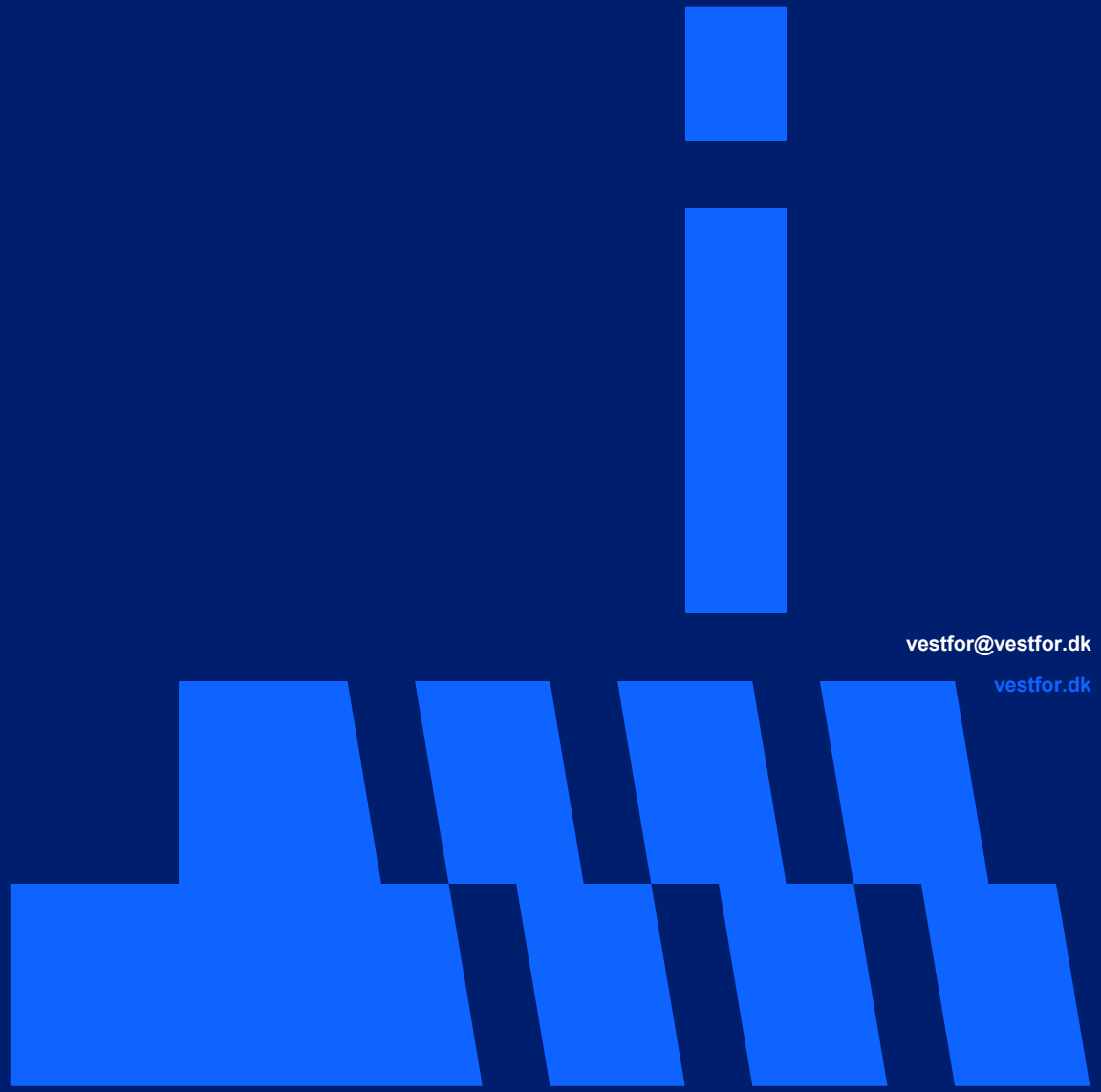
We integrate sectors with different regulation

We grow, and so should the regulation. Different regulations pose different challenges, and integrating them can be hard.

Supporting Sustainability

We are obligated by regulation to provide the cheapest solution to the customer – this sometimes means we have to compromize on sustainability. Unintended consequense?

Q&A and Dialogue



vestfor@vestfor.dk
vestfor.dk