

A photograph of a dense forest with tall, slender trees. Sunlight filters through the canopy on the left, creating a hazy, golden glow. The ground is covered in green undergrowth. The text is overlaid in the lower-left quadrant.

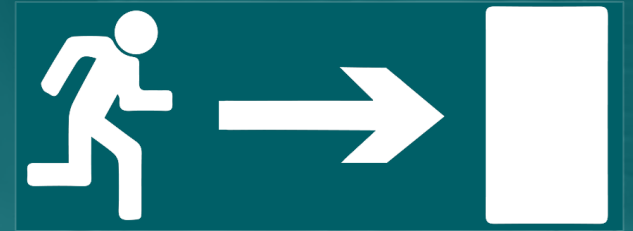
VÄXJÖ ENERGI
– SIGHT SET ON A SUSTAINABLE FUTURE

SAFETY FIRST

**SAFETY IS NUMBER ONE FOR EVERYONE;
OUR EMPLOYEES, TEMPORARY EMPLOYEES,
CONTRACTORS AND VISITORS.**

IN EMERGENCIES

- If the evacuation alarm/fire alarm sounds, you must follow the evacuation routes and proceed to the assembly point outside the entrance
- Flashing lights indicate a chemical leak and you must then make your way to the assembly point
- Defibrillators and first aid equipment are available in several marked locations at the power plant and in the office
- No exercises or alarm tests are currently planned, which means that all alarms mean a real-life situation.



OUR VISION

To be the region's leading
infrastructure provider.



QUICK FACTS

Founded:

1887

Employees:

240+

Owner:



Växjö
kommun

Power Grid

Number of connections:

37,700

Availability:

99.999 %

Broadband

Number of connections:

43,000

Availability:

99.991 %

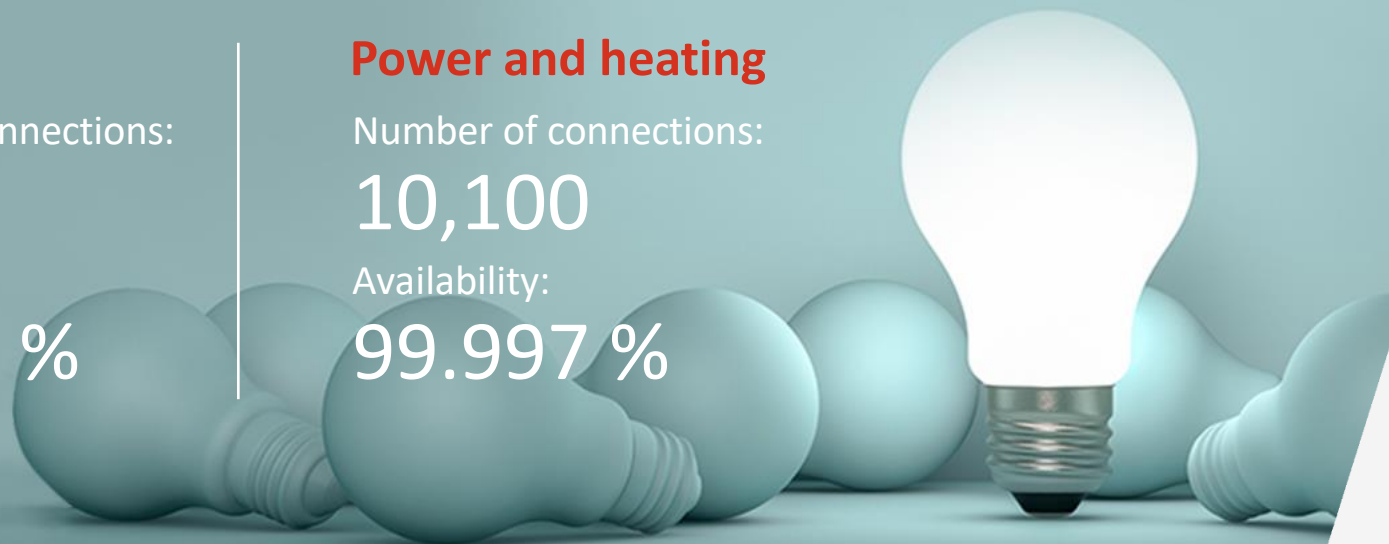
Power and heating

Number of connections:

10,100

Availability:

99.997 %



WE PROVIDE IMPORTANT SERVICES

SECURE AND RELIABLE PROVIDER 24/7



Electricity
supply
network



Heating



Cooling



Ground heating



Fibre

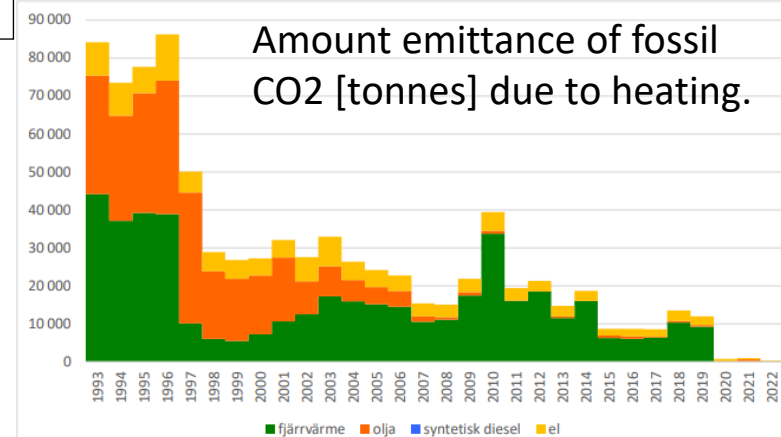
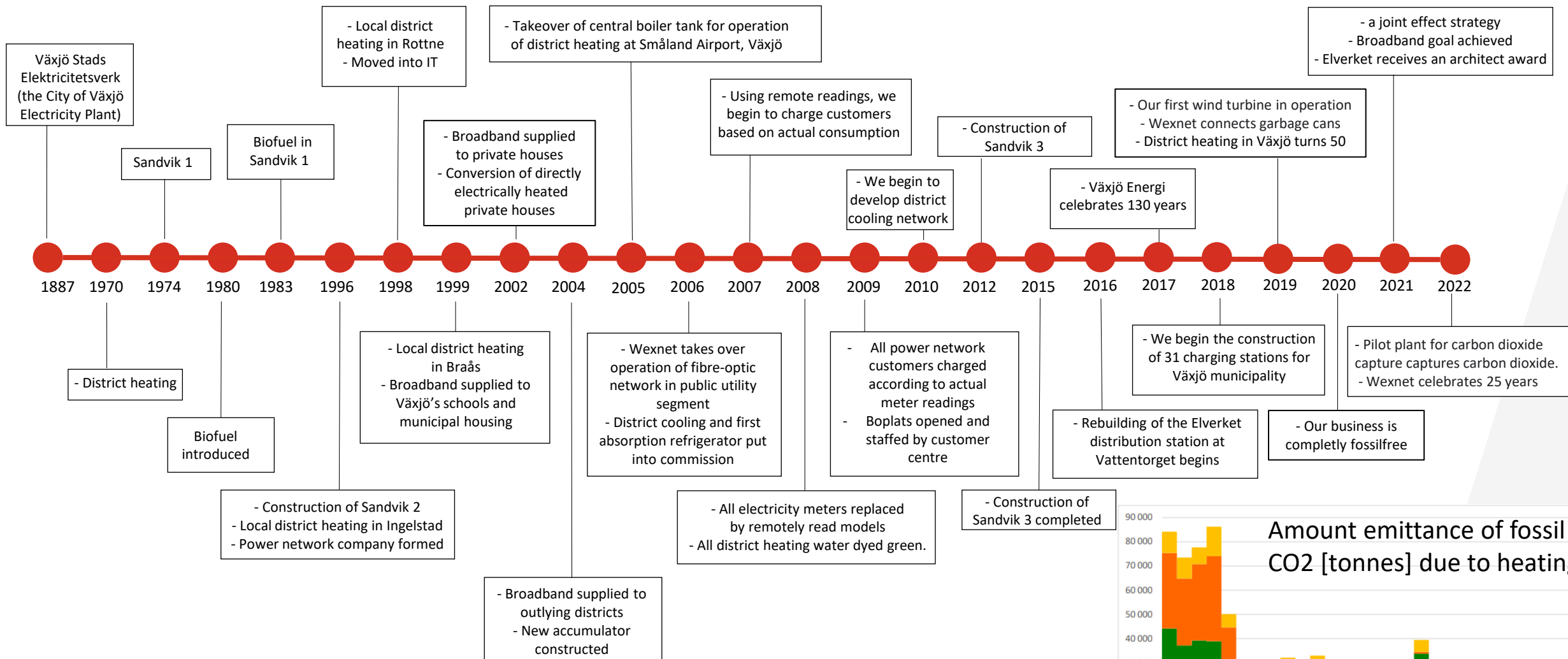
WE ARE NOW COMPLETELY 100%

Since December 2019 we have been a completely fossil-free company.

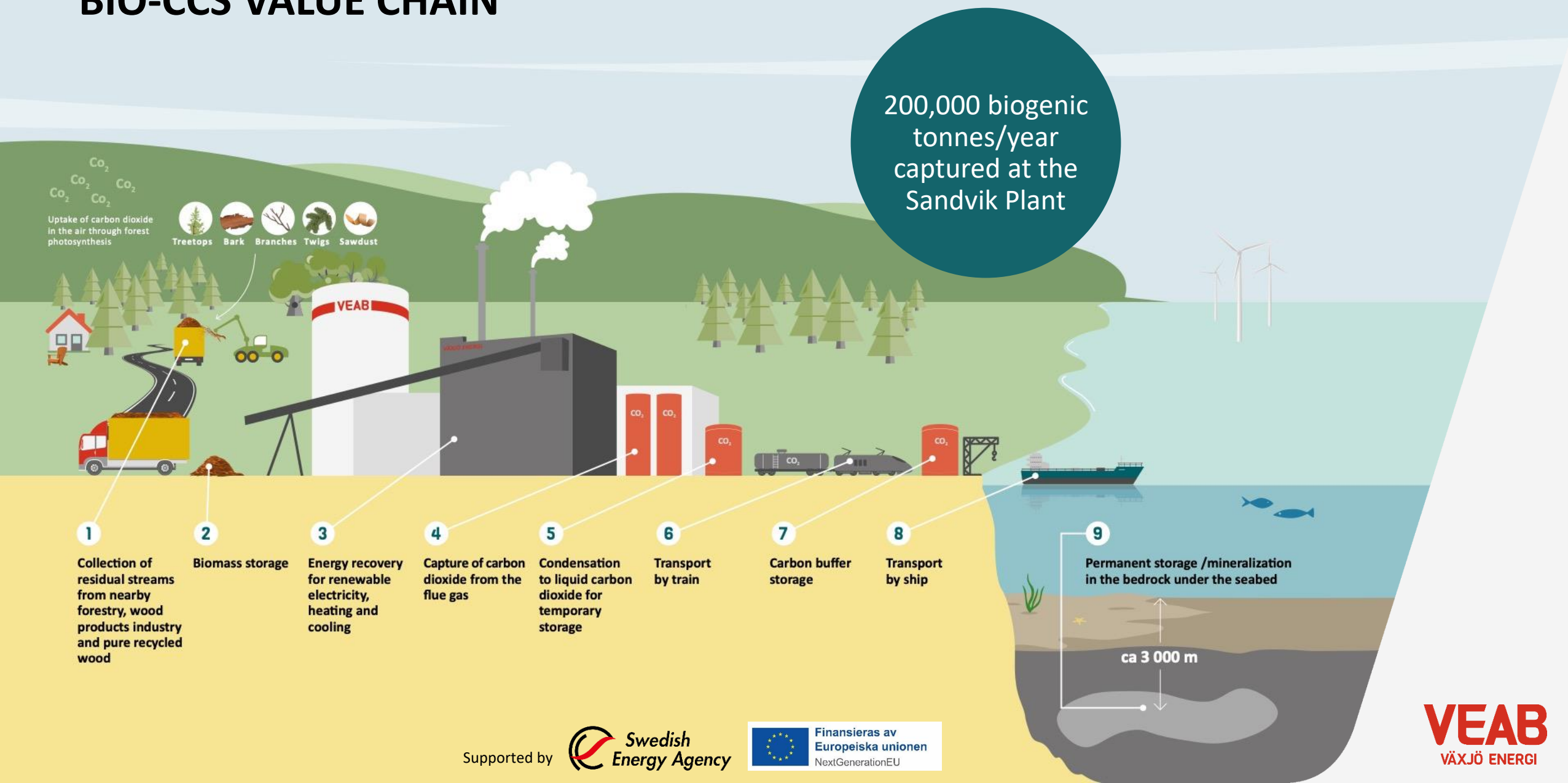
This means:

- All production in all production facilities, including bio-based starter oil.
- The entire company for example in the form of the dedicated vehicle fleet is fossil-fuel free.
- The work machinery that the contractors use when carrying out tasks for Växjö Energi are also fossil-fuel free.

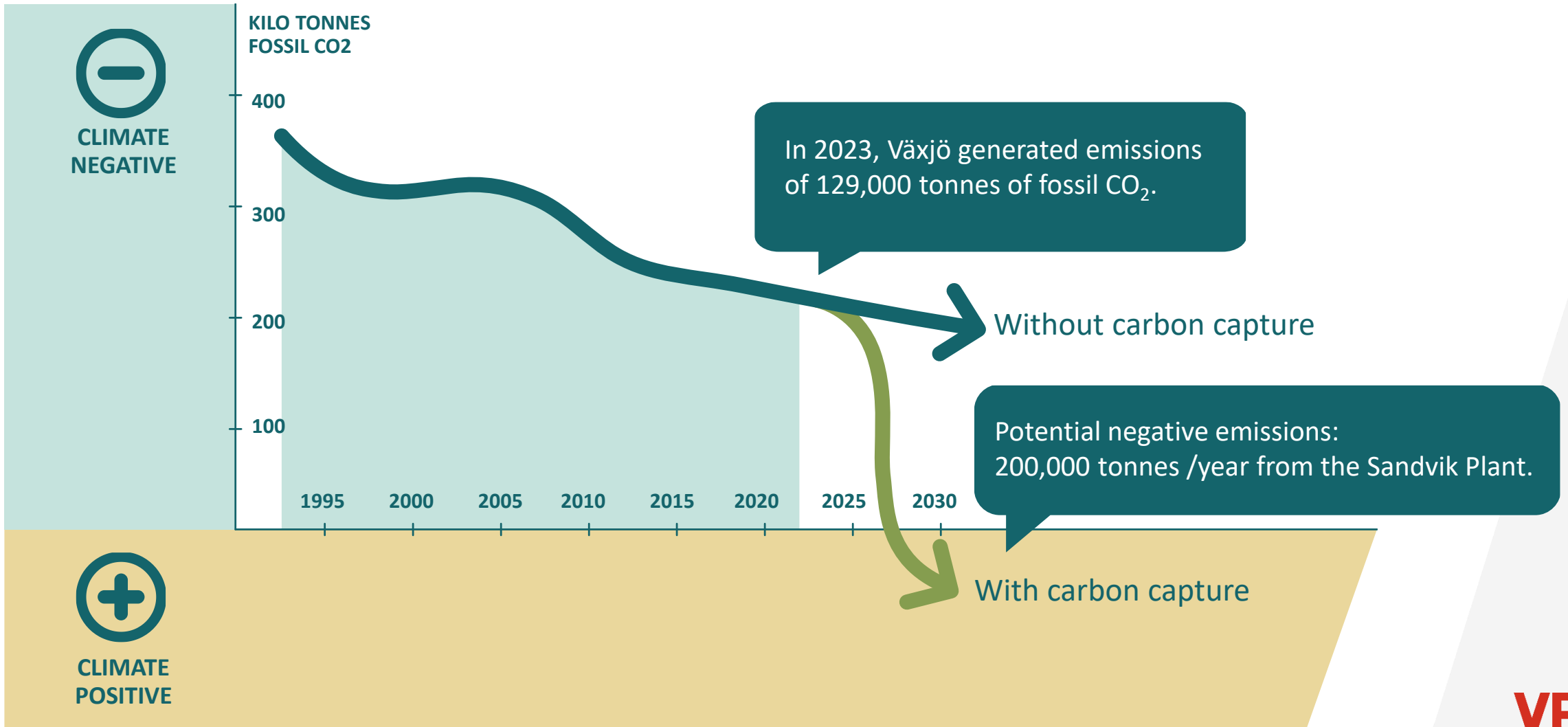
MILESTONES IN THE HISTORY OF VÄXJÖ ENERGI



BIO-CCS VALUE CHAIN



PROMISE: BY 2030, VÄXJÖ WILL CAUSE NO NEGATIVE IMPACT ON THE CLIMATE



COMBINED POWER AND HEATING PLANT

CO₂ is absorbed by the growing forest

Ash

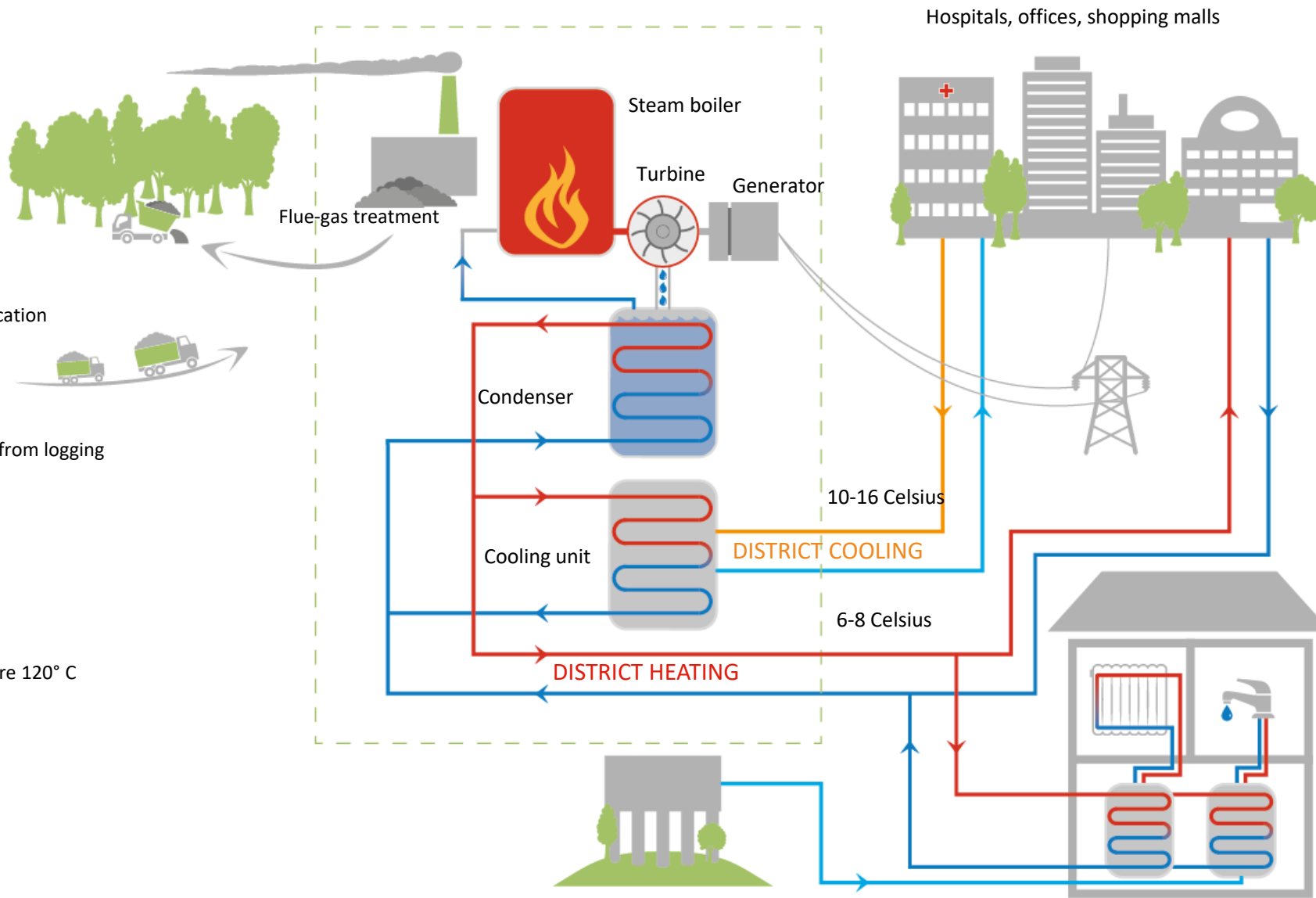
- Provides minerals
- Fertilises
- Counteracts acidification

Biofuel

- Branches and tops from logging
- Wood chips
- Bark and sawdust

District heating grid

- Length 420km
- Volume 11000m³
- Design temperature 120° C



Production units and production planning

Henrik Larsson

Strategic and Operational Planning, VEAB

EN DEL AV DIN VARDAG

VEAB
VÄXJÖ ENERGI

FACTS ABOUT THE SANDVIK PLANT

Cogeneration, Sandvik 3

65 MW heating and 39 MW electricity + 25 MW heating from flue gas condensation.

Has fossil fuel free production and is powered with biofuel.

Cogeneration, Sandvik 2

65 MW heating and 35 MW electricity + 25 MW heating from flue gas condensation.

Has fossil fuel free production and is powered with biofuel.

Hot water boilers (peak load/reserve boilers)

Hot water boiler, 25 MW heating.

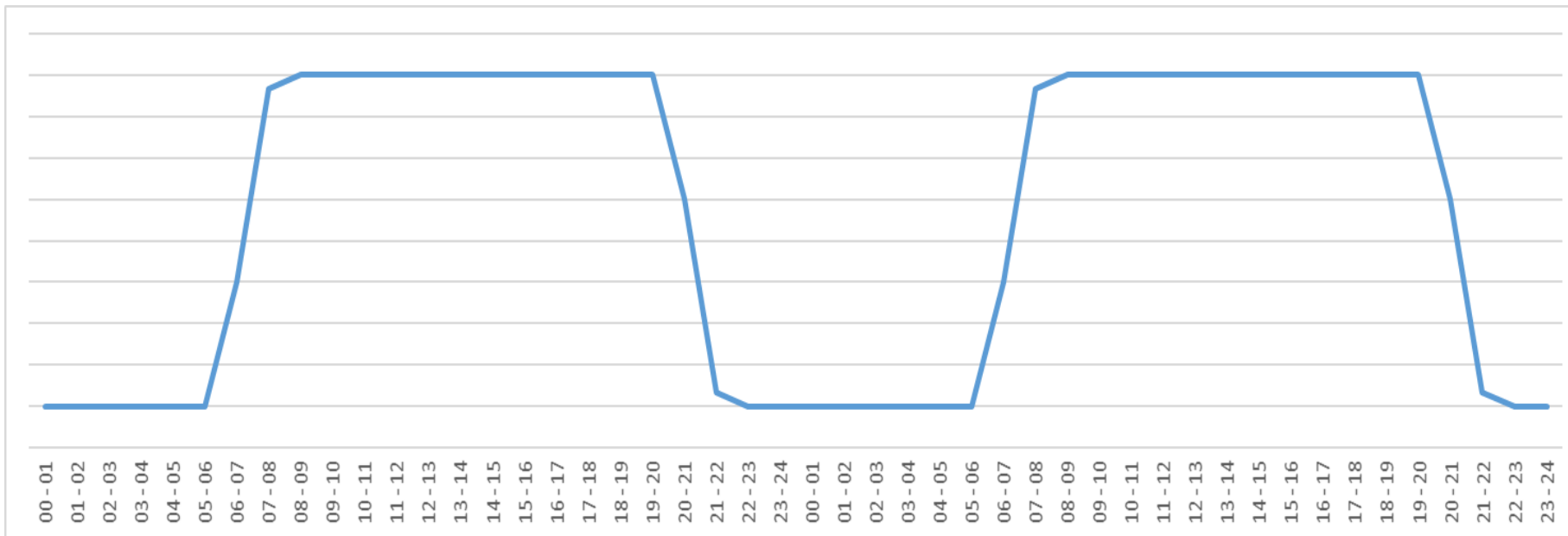
Has fossil fuel free production and is powered with biofuel.

Accumulator tank, 2 500 MWh heat



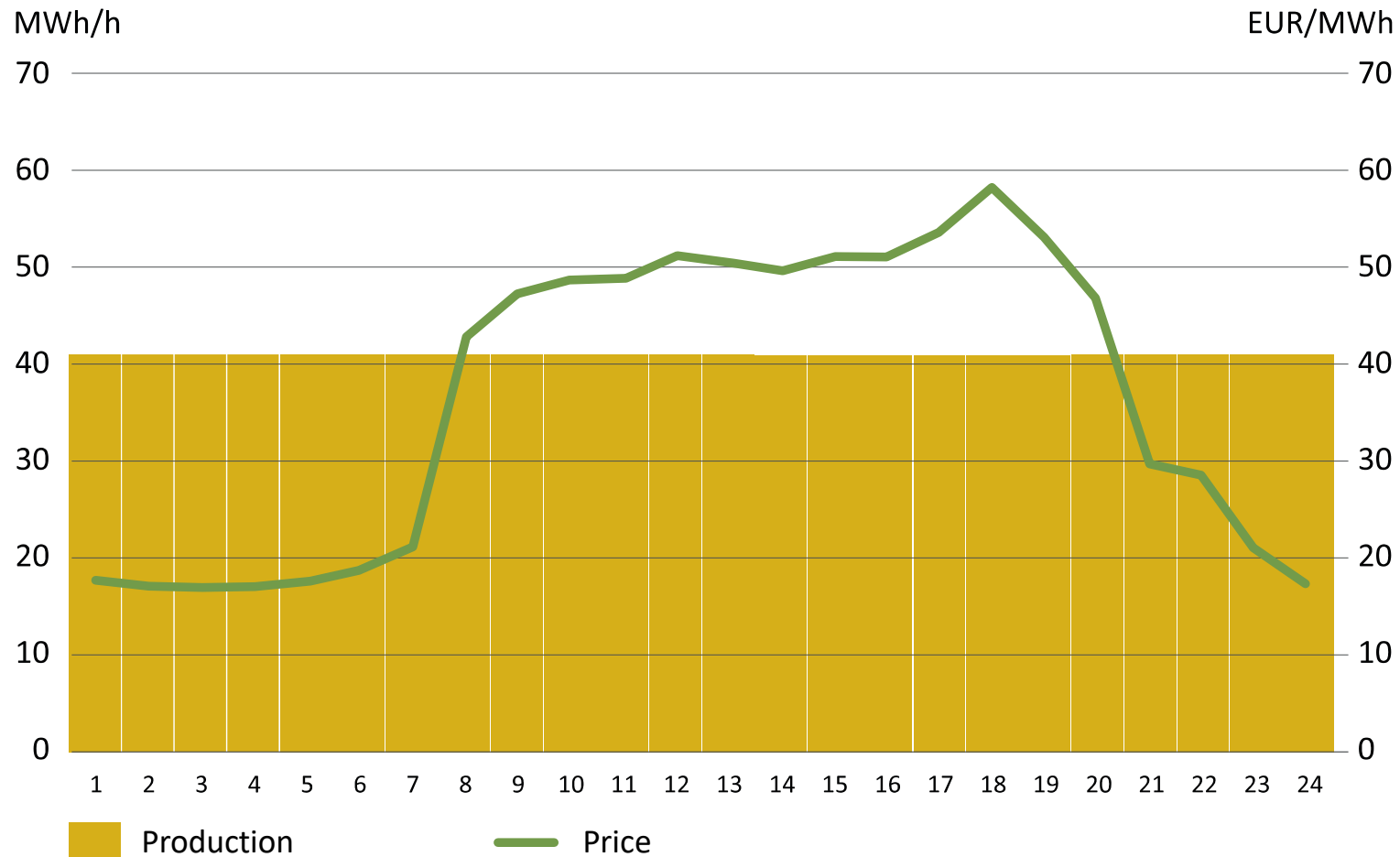
Production optimization

- We increase production when the electricity price is high (low wind) and decrease when the electricity price is low (high wind).
- We can do this thanks to our accumulator, which ensures that we can supply district heating.
- Gives us an increased number of load cycles, but also an increased income and public benefit.



Methodology of bidding

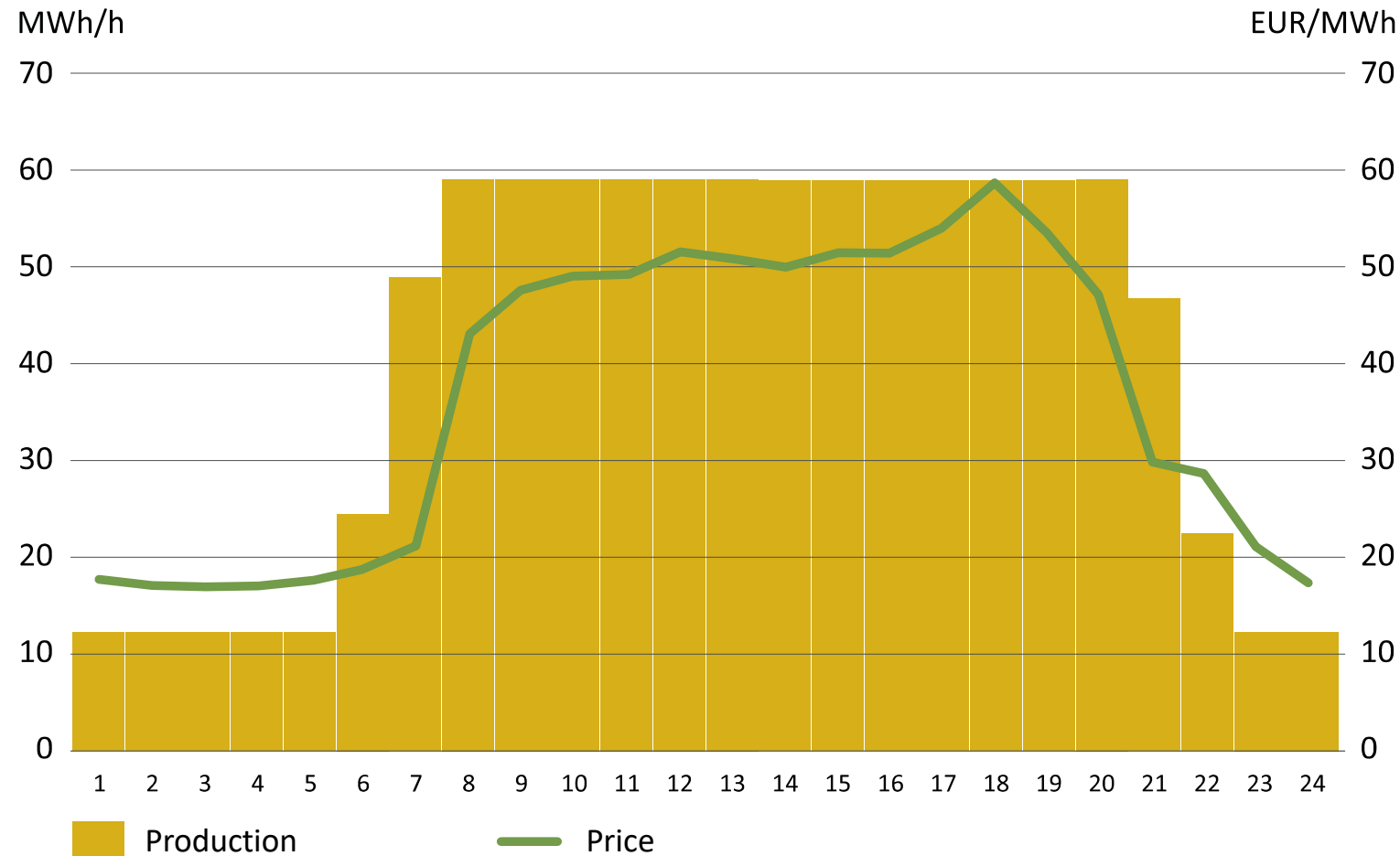
Price independent production



Profitability: 145 000 SEK

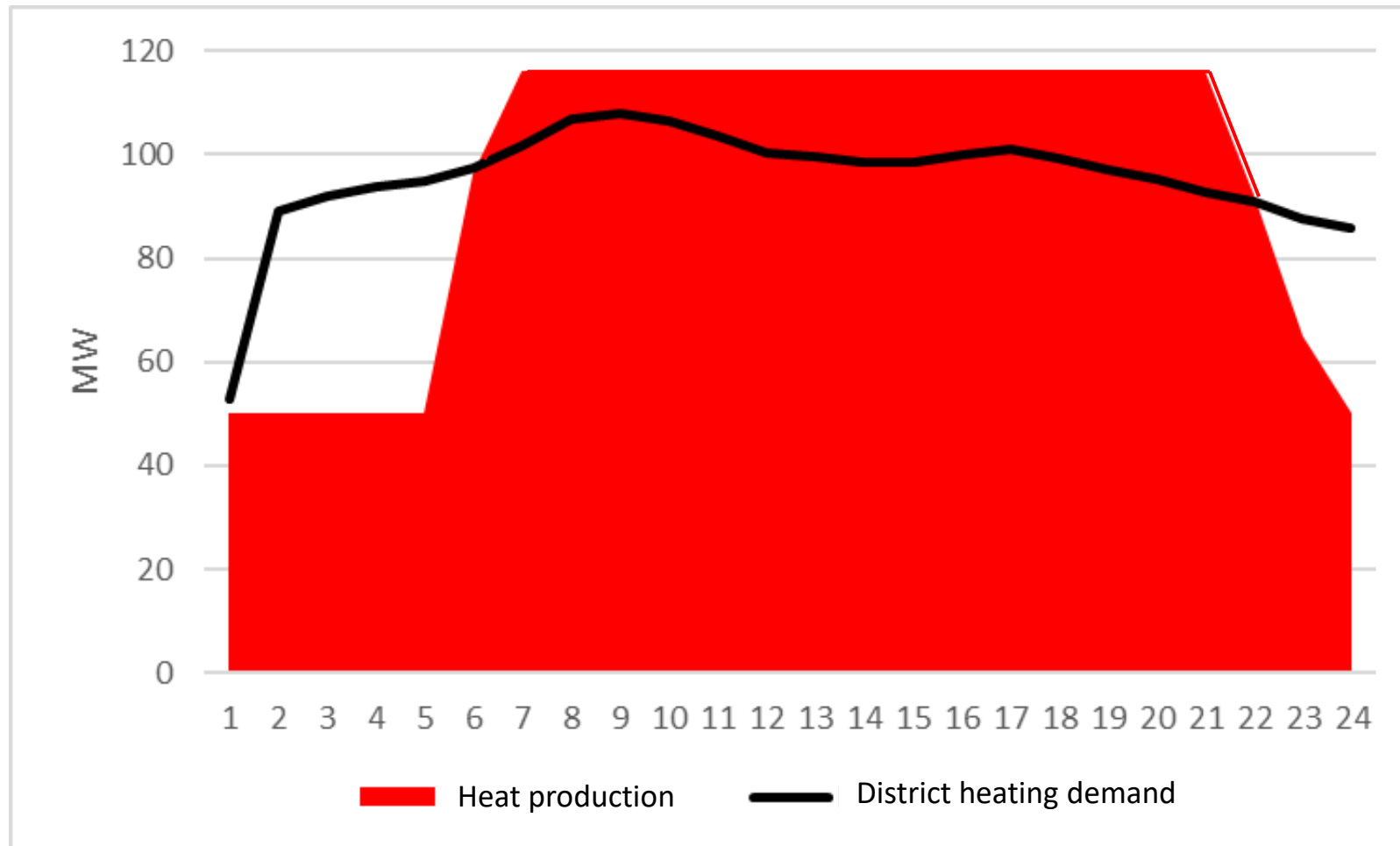
Methodology of bidding

Price dependent production

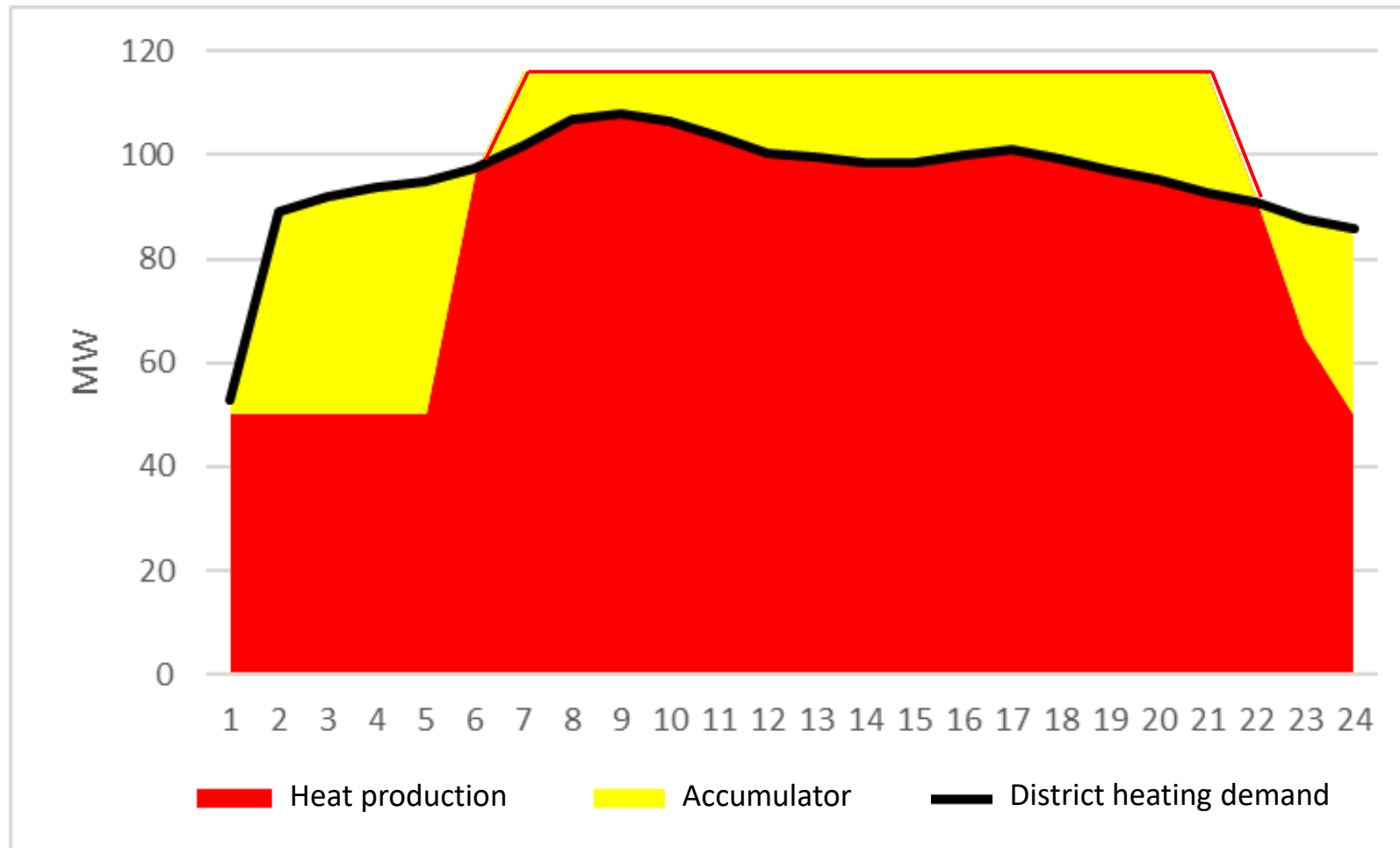


*Profitability: 213 000 SEK
(+68 000 SEK, +47%)*

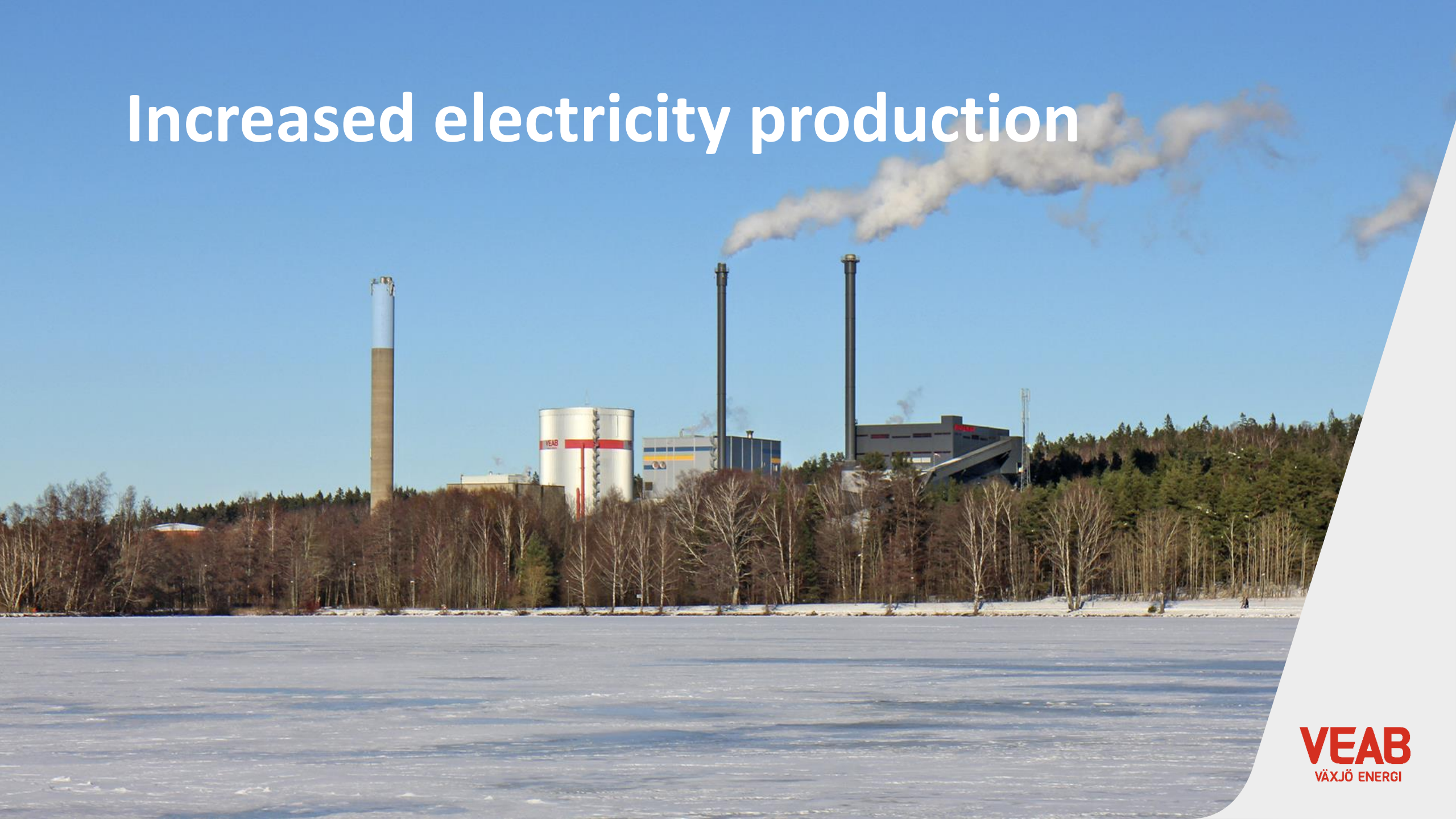
Production planning heat

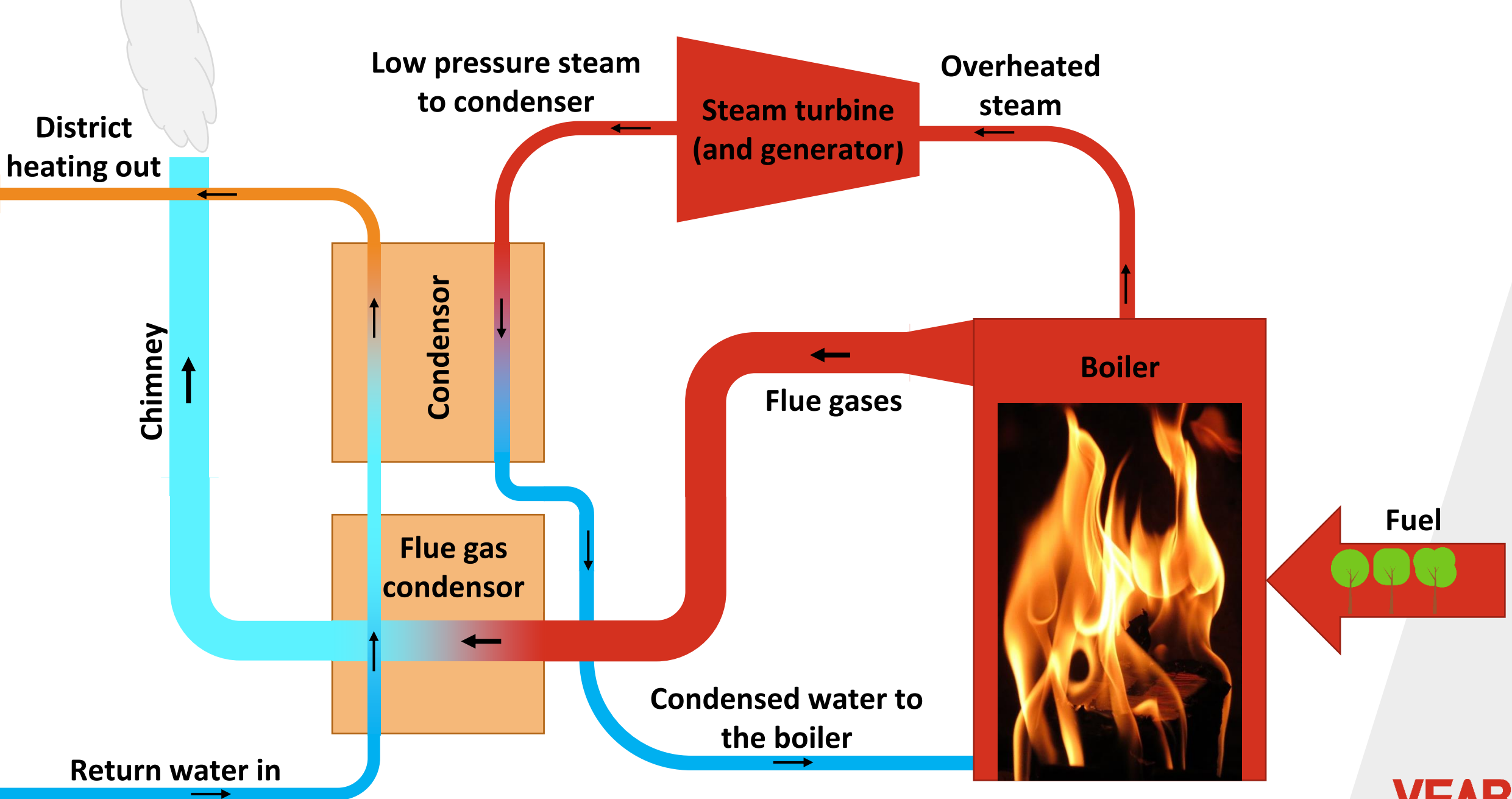


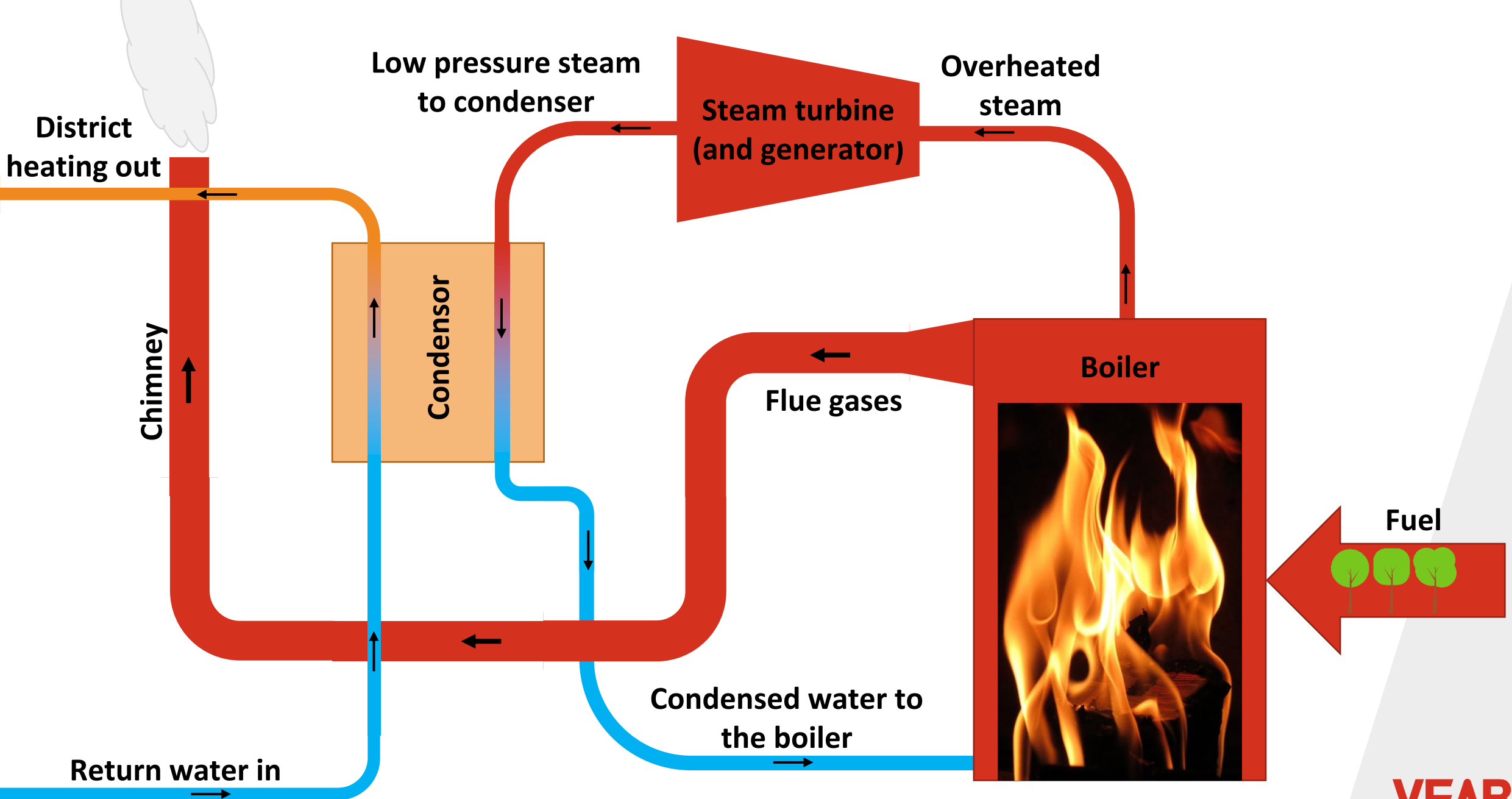
Production planning heat



Increased electricity production

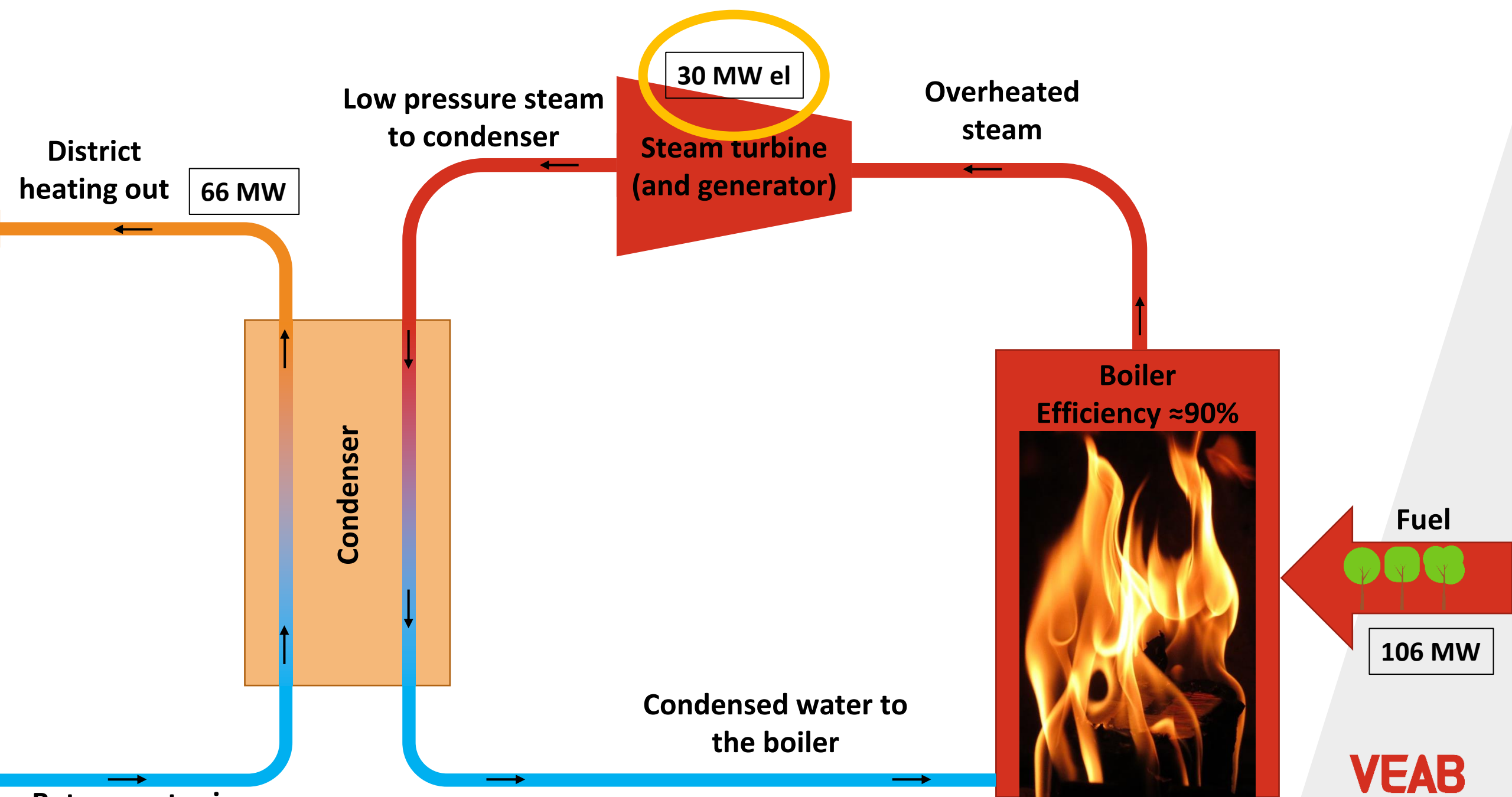






Reducing electricity production at low electricity prices

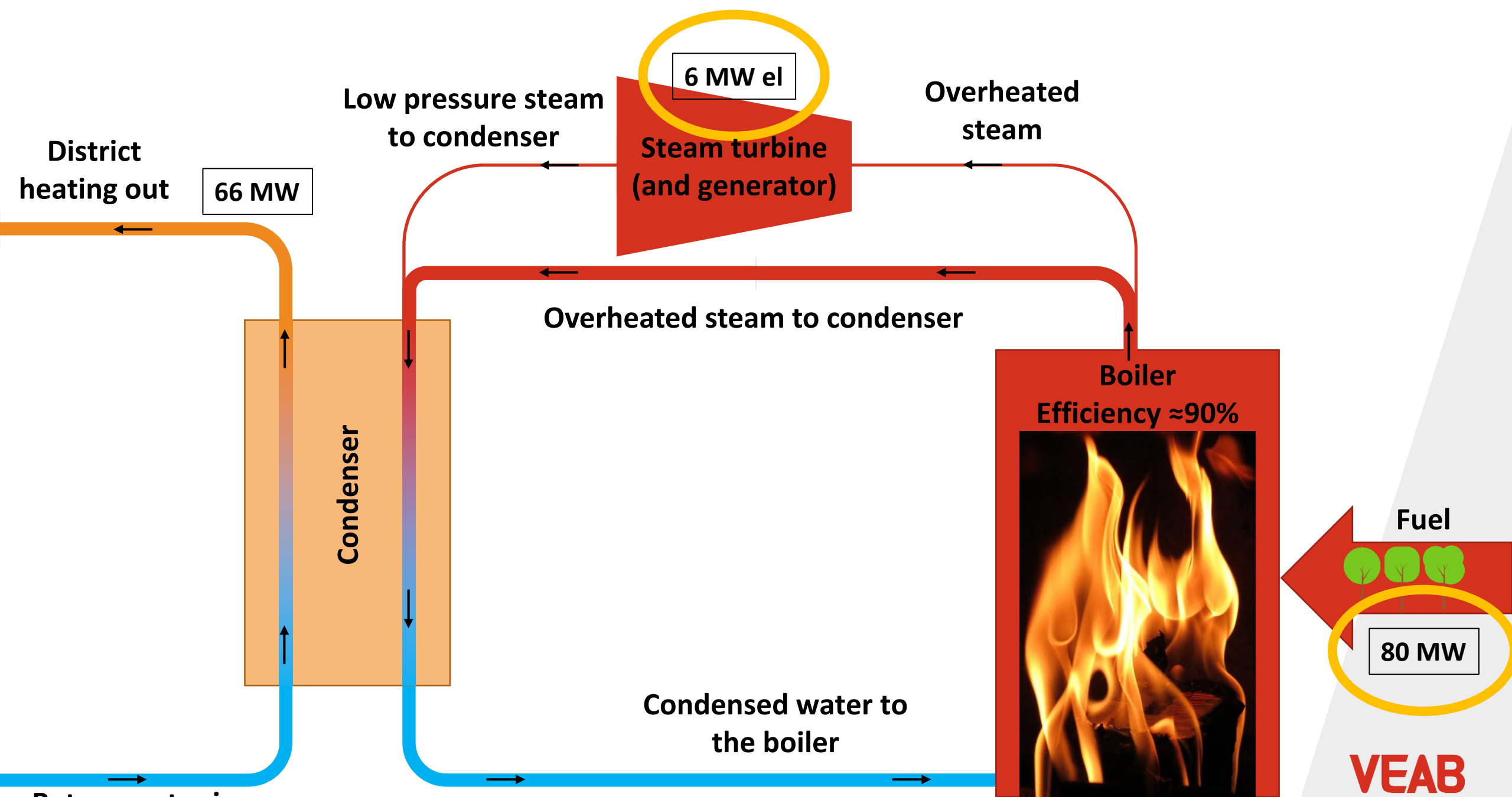




Return water in

EN DEL AV DIN VARDAG

Informationsklassning: Öppen



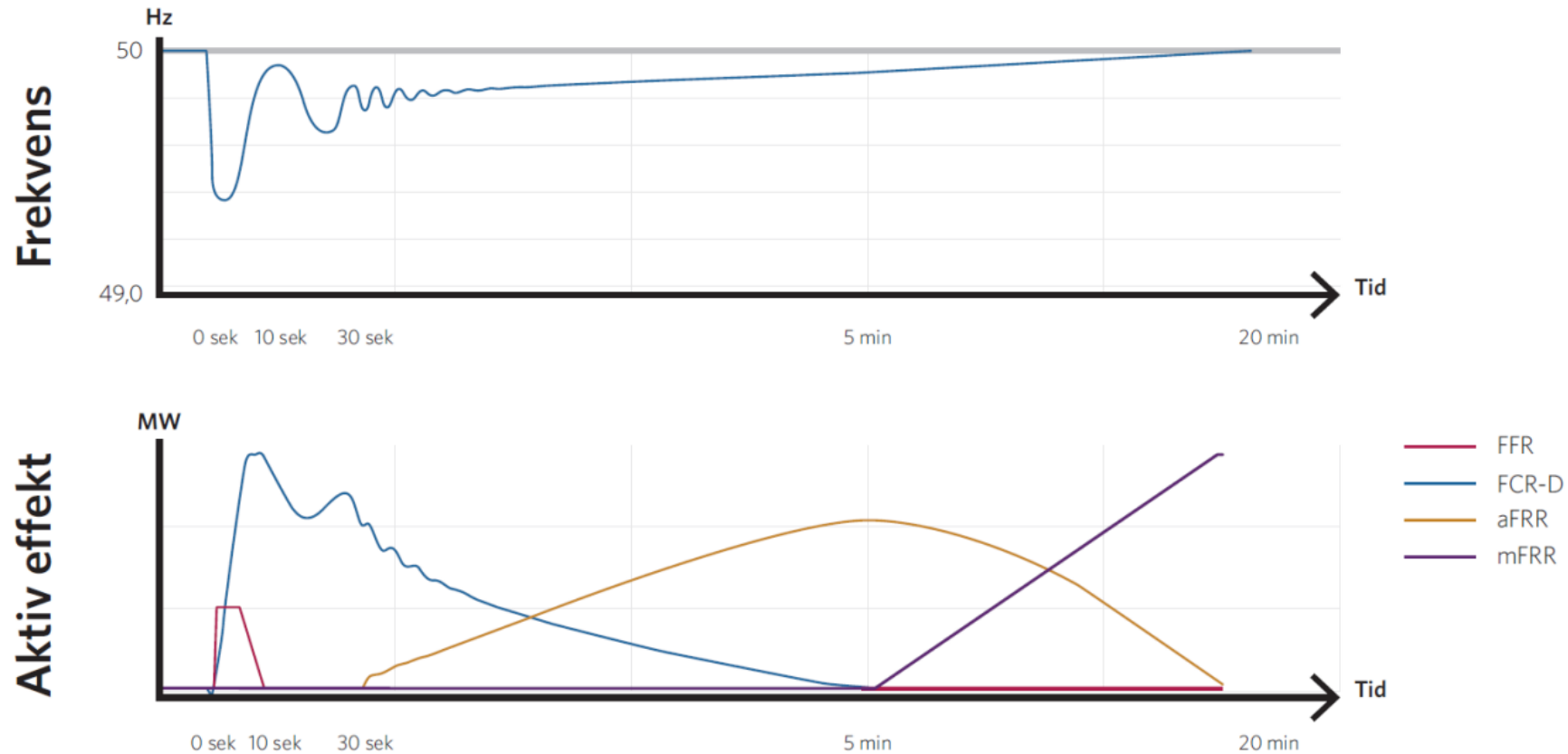
Return water in

EN DEL AV DIN VARDAG

Informationsklassning: Öppen

Balancing the power system

A disturbance in the power system - what happens





EN DEL AV DIN VARDAG

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VÄXJÖ ENERGI

FOR A SECURE AND SAFE STUDY VISIT

- Always follow your guide and their instructions
- A helmet and high visibility vest must be worn when visiting the power plant
- There are areas with magnetic fields which present a risk for people with pacemakers
- Follow walkways and instructions on signs
- Pay attention to traffic within the facility
- Do not touch the machine and other equipment, some surfaces can be very hot
- Photography is only permitted in designated places
- A designated “sheepdog” goes last, closes any doors and ensures that nobody strays away from the route



Protective helmet



High visibility vest

THANK YOU FOR LISTENING!

INFO@VEAB.SE