VEAB
VÄXJÖ ENERGI

Welcome to Växjö Energi

Peter Johansson

Plant Manager



EN DEL AV DIN VARDAG

Informationsklassning: Öppen

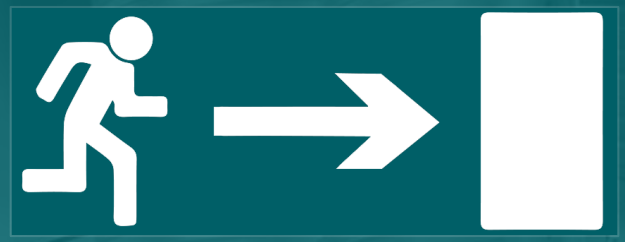
SAFETY FIRST

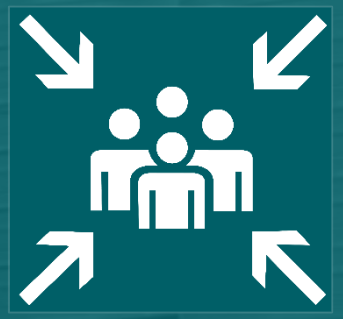
**SAFETY IS NUMBER ONE FOR EVERYONE;
OUR EMPLOYEES, TEMPORARY EMPLOYEES,
CONTRACTORS AND VISITORS.**

VEAB
VÄXJÖ ENERGI

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.





QUICK FACTS

Founded:
1887

Employees:
248

Owner:
Växjö kommun

Power grid

Number of connections:
38,280

Availability:
99.998 %

Wexnet

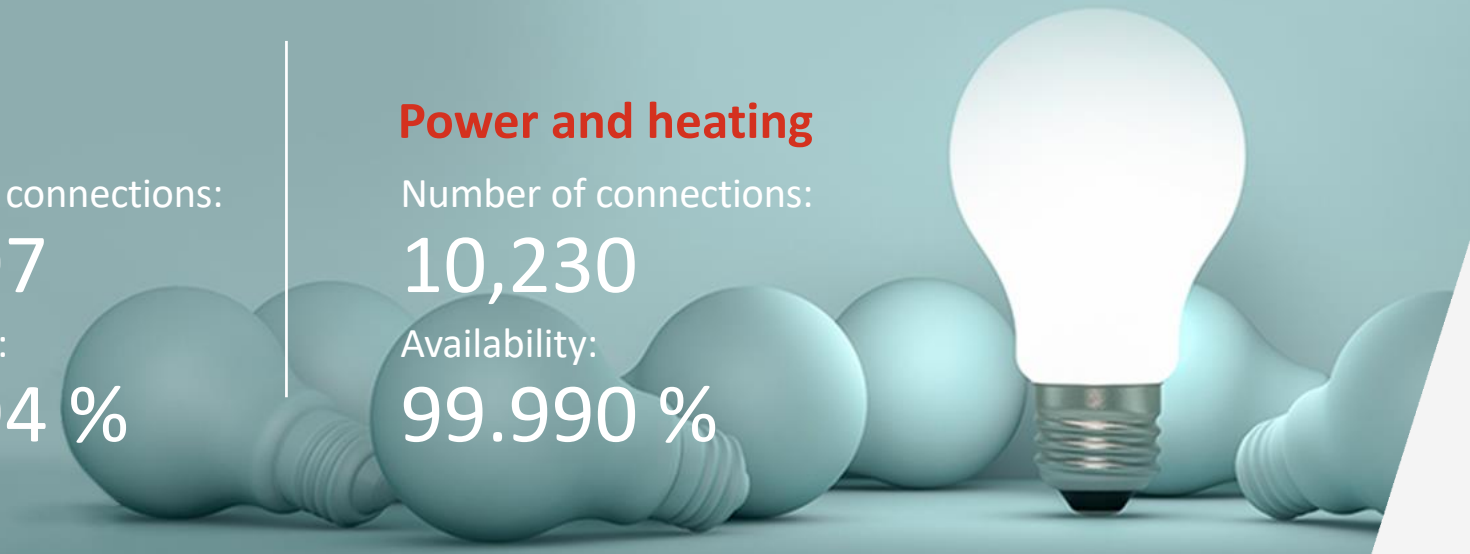
Number of connections:
35,297

Availability:
99.994 %

Power and heating

Number of connections:
10,230

Availability:
99.990 %



VEAB
VÄXJÖ ENERGI

WE PROVIDE IMPORTANT SERVICES

SECURE AND RELIABLE PROVIDER 24/7



Power grid Heating Cooling Ground heating Fibre

VEAB
VÄXJÖ ENERGI

WE ARE NOW COMPLETELY 

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.

VEAB
VÄXJÖ ENERGI

Milestones in the history of Växjö Energi

1887 – Växjö Stads Elektricitetsverk (the City of Växjö Electricity Plant)

1970 – - District heating

1974 – Sandvik 1

1980 – Biofuel introduced

1983 – Biofuel in Sandvik 1

1996 – - Construction of Sandvik 2
- Local district heating in Ingelstad
- Power network company formed

1998 – - Local district heating in Rottne
- Moved into IT

1999 – - Local district heating in Braås
- Broadband supplied to Växjö's schools and municipal housing

2002 – - Broadband supplied to private houses
- Conversion of directly electrically heated private houses

2004 – - Broadband supplied to outlying districts
- New accumulator constructed

2005 – - Takeover of central boiler tank for operation of district heating at Småland Airport, Växjö

2006 – - Wexnet takes over operation of fibre-optic network in public utility segment
- District cooling and first absorption refrigerator put into commission

2007 – - Using remote readings, we begin to charge customers based on actual consumption

2008 – - All electricity meters replaced by remotely read models
- All district heating water dyed green.

2009 – - All power network customers charged according to actual meter readings
- Boplats opened and staffed by customer centre

2010 – - We begin to develop district cooling network

2012 – - Construction of Sandvik 3

2015 – - Construction of Sandvik 3 completed

2016 – - Växjö Energi celebrates 130 years
- Rebuilding of the Elverket distribution station at Vattentorget begins

2017 – - We begin the construction of 31 charging stations for Växjö municipality

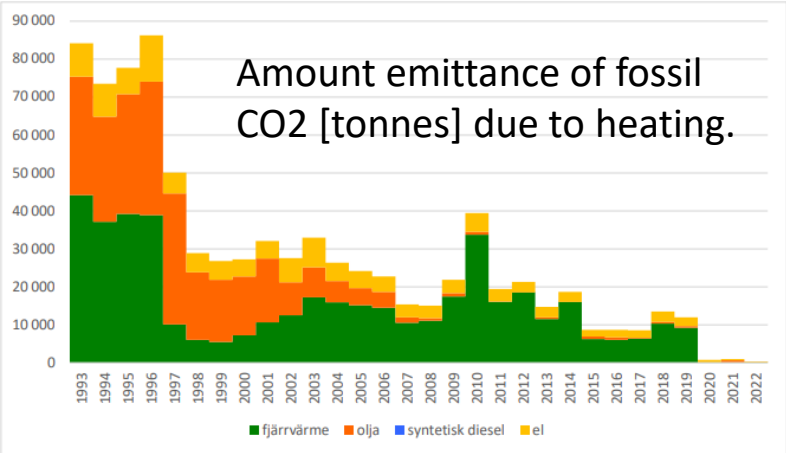
2018 – - Our first wind turbine in operation
- Wexnet connects garbage cans
- District heating in Växjö turns 50

2019 – - Our business is completly fossilfree

2020 – - a joint effect strategy
- Broadband goal achieved
- Elverket receives an architect award

2021 – - Pilot plant for carbon dioxide capture captures carbon dioxide.
- Wexnet celebrates 25 years

2022



Informationsklassning: Öppen

Biofuel from forestry creates value for Växjö

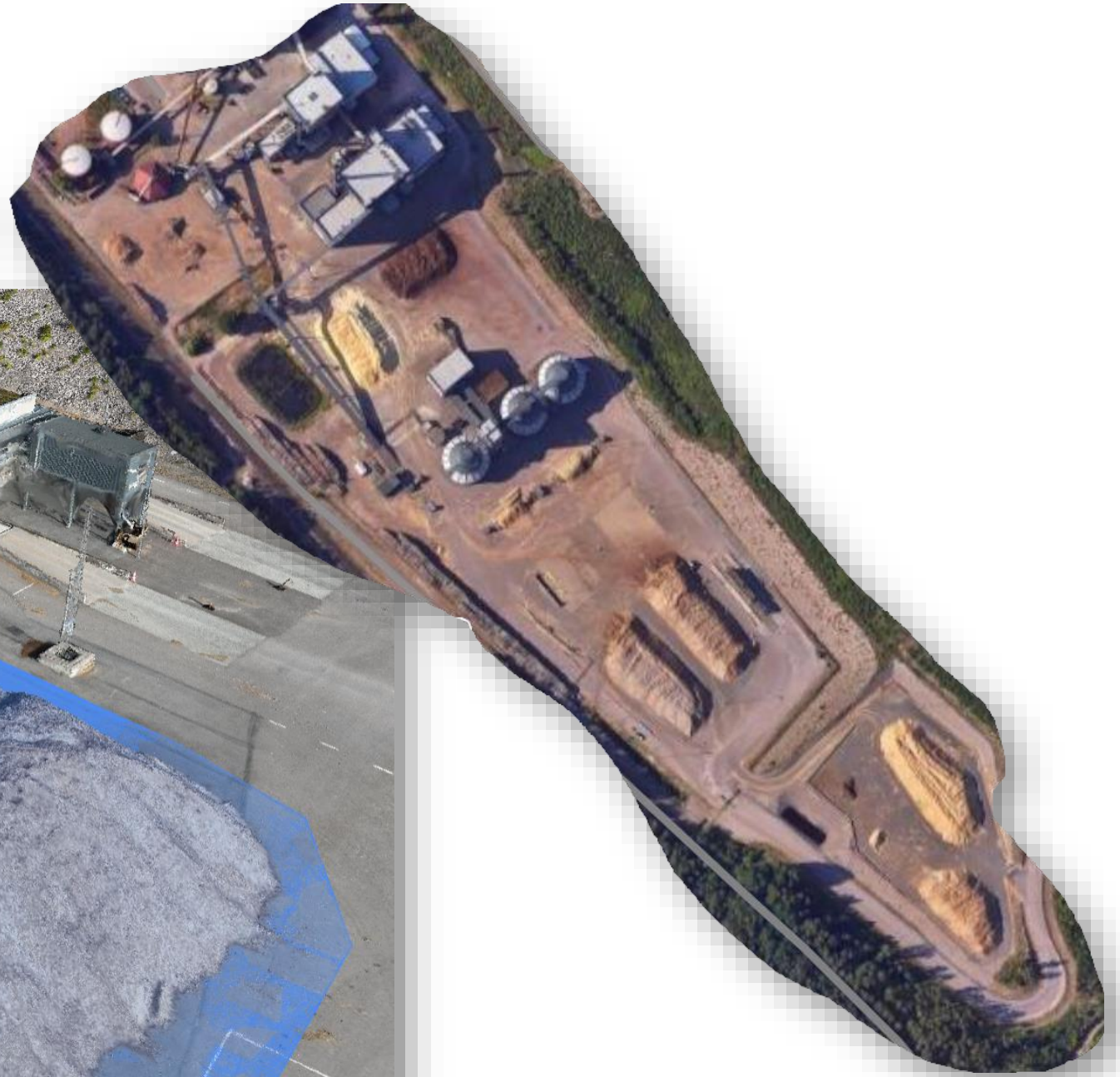
- Fossil-fuel free production of district heating, district cooling and electricity
- Renewable biofuels from forestry in our vicinity
- Timber offcuts such as branches and tops, wooden chips, bark and sawdust
- Ash is returned to the forest



Informationsklassning: Öppen

Fuel storage area

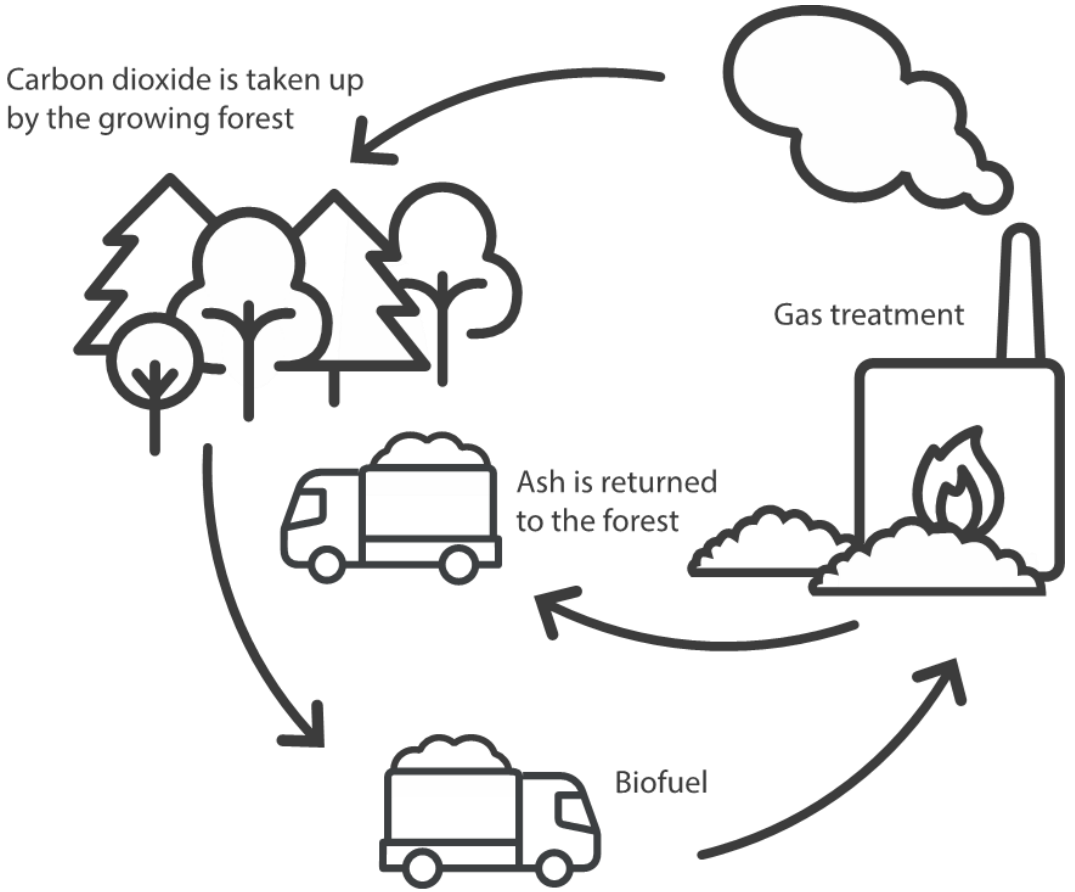




Informationsklassning: Öppen

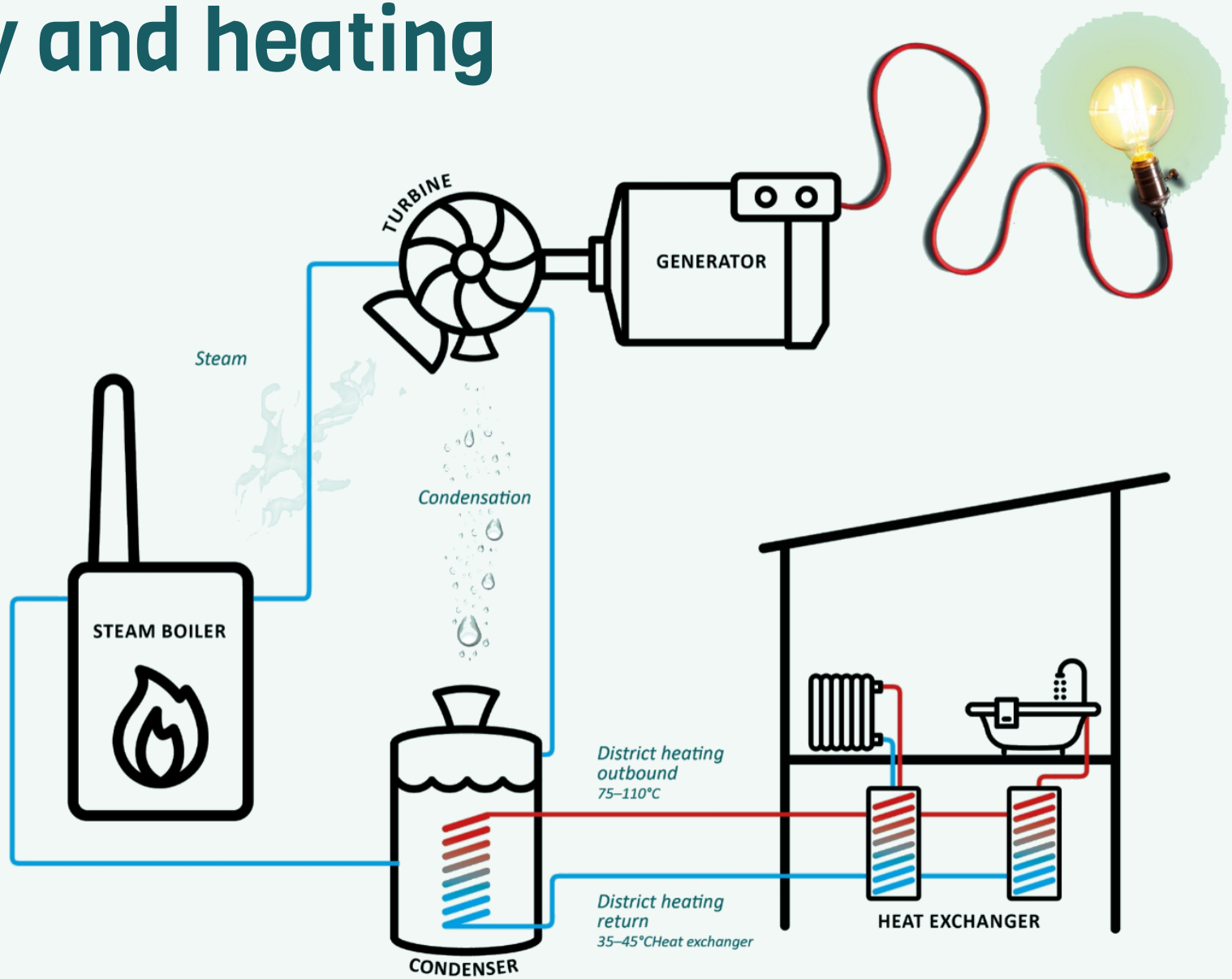
The ash provides new nourishment for the forest

- Contains nutrients and trace elements that prevent acidification
- Spread where the timber offcuts have been taken
- The balance is restored by returning the minerals calcium, magnesium and potassium.



Informationsklassning: Öppen

Thanks to cogeneration, we produce both electricity and heating



Informationsklassning: Öppen

VEAB
VÄXJÖ ENERGI

Facts about the Sandvik Plant

Cogeneration, Sandvik 3
65 MW heating, 39 MW electricity and 25 MW heating from flue gas condensation.
Has fossil fuel free production and is powered with biofuel.

Cogeneration, Sandvik 2
65 MW heating, 35 MW electricity and 25 MW heating from flue gas condensation.
Has fossil fuel free production and is powered with biofuel.

Hot water boiler in Sandvik 1
Hot water boiler, 25 MW heating and 5 MW heating from flue gas condensation.
Has fossil fuel free production and is powered with biofuel.



EN DEL AV DIN VARDAG

Informationsklassning: Öppen

VEAB
VÄXJÖ ENERGI

Accumulator tank

- Enables more even production which benefits the environment and economy
- Security in the event of stoppages
- 40,000 cubic metres of hot water
- 60 metres' high
- 2,500 MWh heating
- 300-mm thick insulation
- Water temperature at the top 98ºC .

We can charge the accumulator with water with an amount of energy of approx. 2,500 MWh, which is the same as the electricity use of more than 100 homes for an entire year.



EN DEL AV DIN VARDAG

Informationsklassning: Öppen

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

VEAB
VÄXJÖ ENERGI

VEAB
VÄXJÖ ENERGI

Thank you for listening

info@veab.se

