

Security – A team game

Terje Steisjö

The text in this presentation has been automatically translated, which means that there may be discrepancies and inaccuracies in the translation compared to the original text

Ellevios Safety Organization



Ellevio safety organization

Functional areas and personnel

Security protection

- Security Protection Coordinator
- Security Protection Specialists
- Security Protection Administrator

Verksamhetsskydd

- Physical Security Specialist

Civil beredskap

- Emergency Preparedness Coordinator
- Safety Coordinator

- Personnel safety
- Protective Security Agreement
- Security assessments
- Investigations
- Security Protection Check

- Physical security
- Personal safety
- Reliability
- Investigations
- Corporate Safety Verification

- Crisis preparedness
- Contingency measures
- Education

What is security protection?

"Security protection refers to the protection of security-sensitive activities against espionage, sabotage, terrorist offences and other crimes that may threaten the activities, as well as protection in other cases of classified information."

Chapter 1. Section 2, first paragraph, of the Protective Security Act (2018:585)





A changed international situation

"We are in a serious international situation where Sweden's internal security is affected by events outside our borders"

Security threats to Sweden and designated sectors

Energy sector



- Cyber threats
- Vandalism and sabotage
- Collection
- Acquisition of real estate
- Outsourcing and uncertain supply chains
- Grey zone problems and armed attack

Transport sector



- Intrusions and disruptions can affect facilities and systems
- Security risks in procurement
- Infiltration and recruitment of insiders
- Intelligence gathering

Telecominfrastructure



- Cyber threats
- Operational disruption/outage due to power outages
- Intelligence gathering
- Vandalism and sabotage of infrastructure

Russia

- Russia uses virtually all intelligence disciplines
 - Person-based collection
 - Signals intelligence
 - Picture notification
 - Open sources
- War preparations
- Strategic acquisitions
- Soliciting sources and insiders
- Cyber attacks



Threat to the electricity supply

- Cyber threats
 - Targeted cyberattacks against the energy sector and critical infrastructure
- Physical vandalism and sabotage
- Destruction of physical parts of the electricity grid
- Theft and burglary
- Collection
- Person-based information gathering
- Technical Acquisition
- Acquisition of real estate and land
- Land or lake areas
- Properties close to important electrical installations
- Interception and interference with communication traffic for the electricity system
- Outsourcing and uncertain supply chains
- Heavy dependence on contractors and suppliers
- Provides mission-critical services/components
- Grey zone problems and armed attack
- Neither war nor peace = gray area
- Armed attack = military means of violence
- Electricity supply targeted in armed attack



Questions?

Group discussions: Security protection in connection with participation in security-sensitive activities

Background: As an operator, we at Ellevio conduct a security-sensitive business and hire you as contractors to participate in this activity.

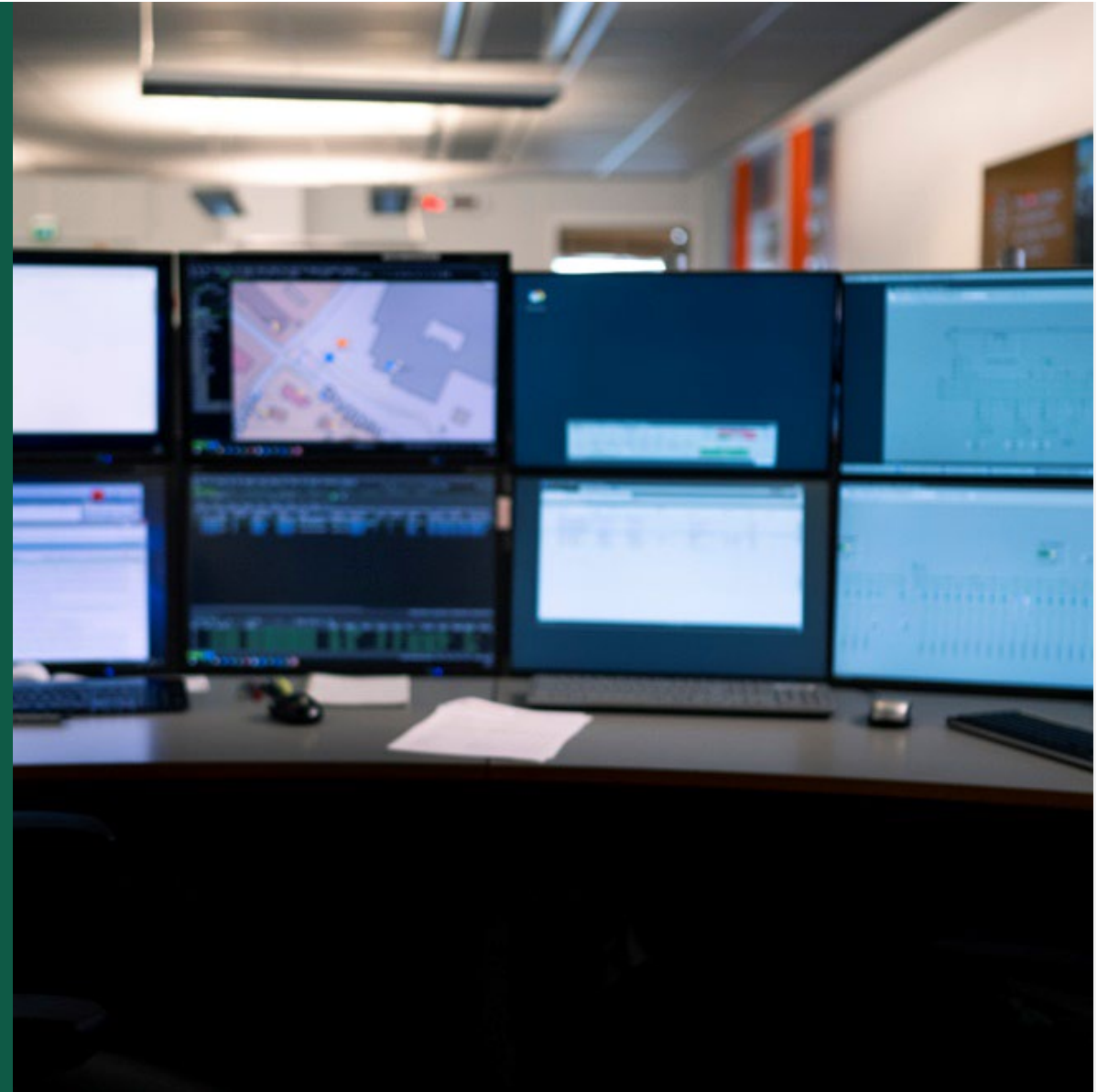
It is of utmost importance that we ensure that all sensitive information is handled in a secure manner and that only authorized persons have access to this information as well as access to security-sensitive activities.

This includes conducting security checks on staff, implementing technical protection measures, and training employees on security protection.



Group discussion:

- What steps should we as operators and you as contractors take to ensure that we meet the requirements of the Security Protection Act?
- How can we together carry out effective security checks of the personnel who participate in security-sensitive activities?
- What technical safeguards should we implement to protect the sensitive information?
- How can we create a safety-conscious culture among all employees and contractors involved in the business?
- What are the potential risks if we fail to implement adequate security protection measures?



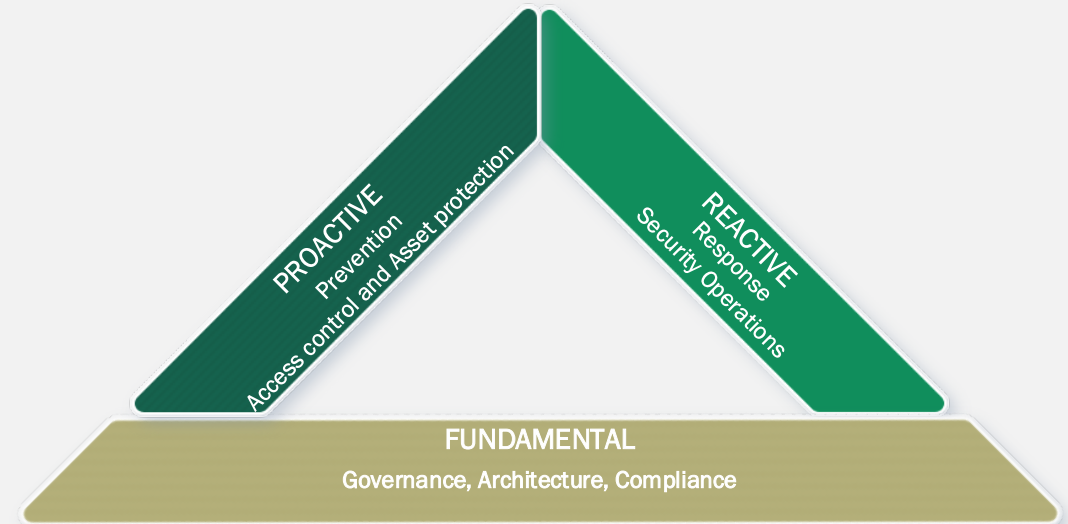


Information & Cyber Security

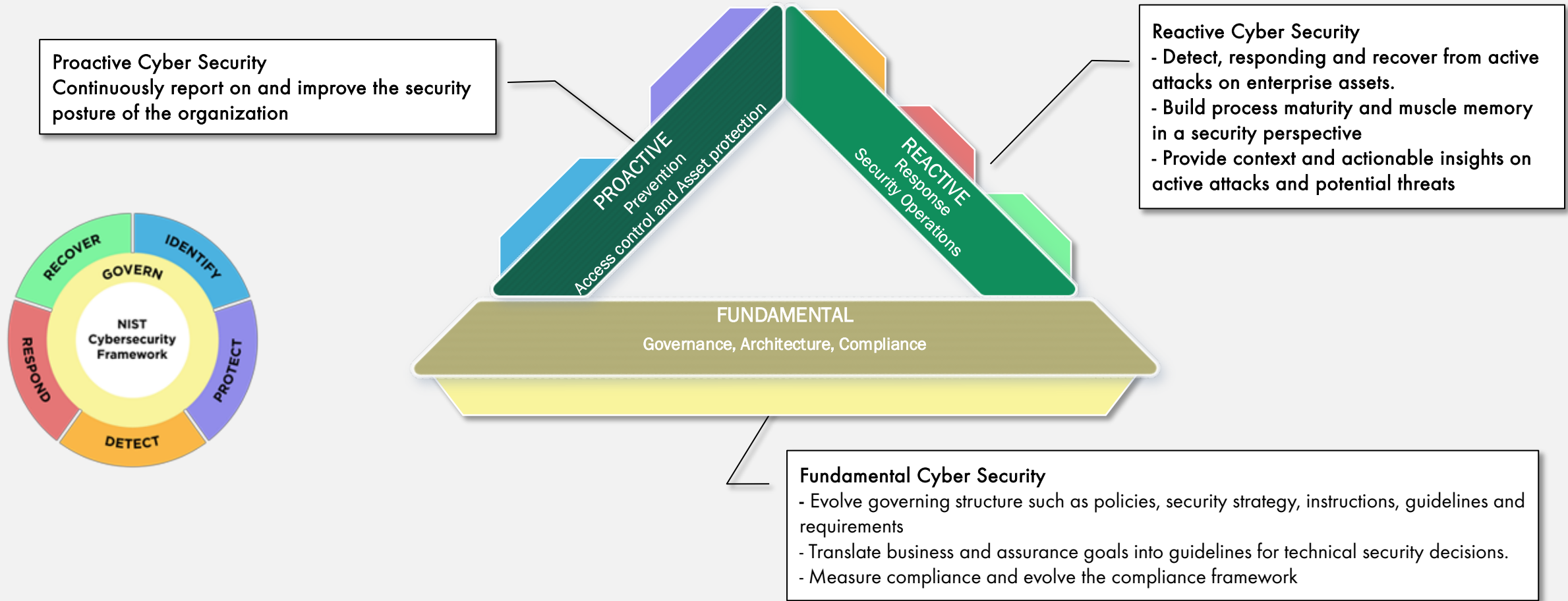
Thomas Widén

Objective – Information & Cyber Security

Ensure that Ellevio's security framework includes and maintains proactive cyber resilience principles, prioritizes rapid cyber incident response, and maintains strict standards for compliance with laws and regulations.

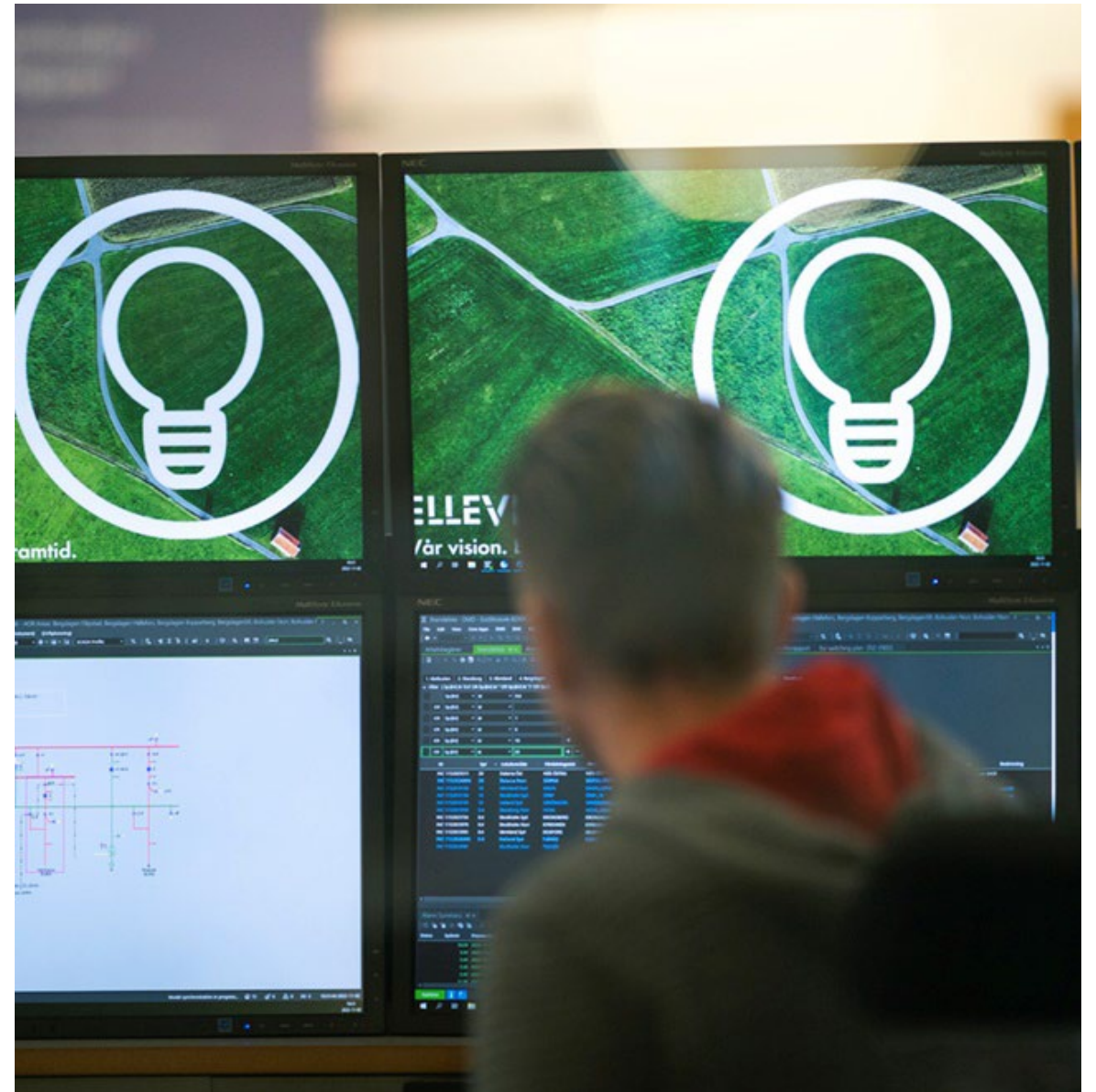
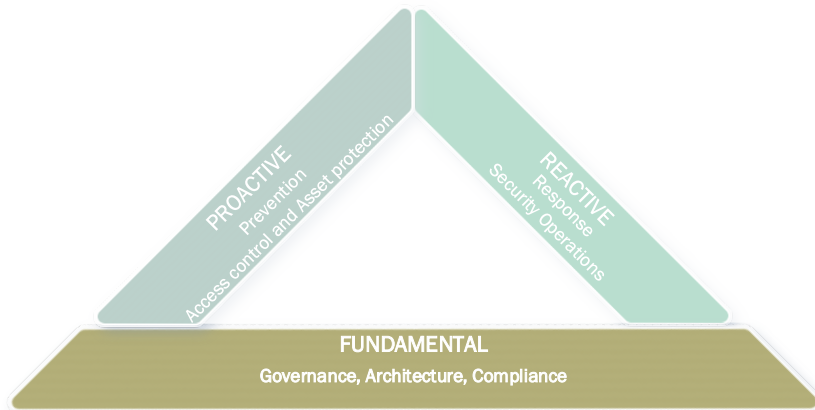


Working model



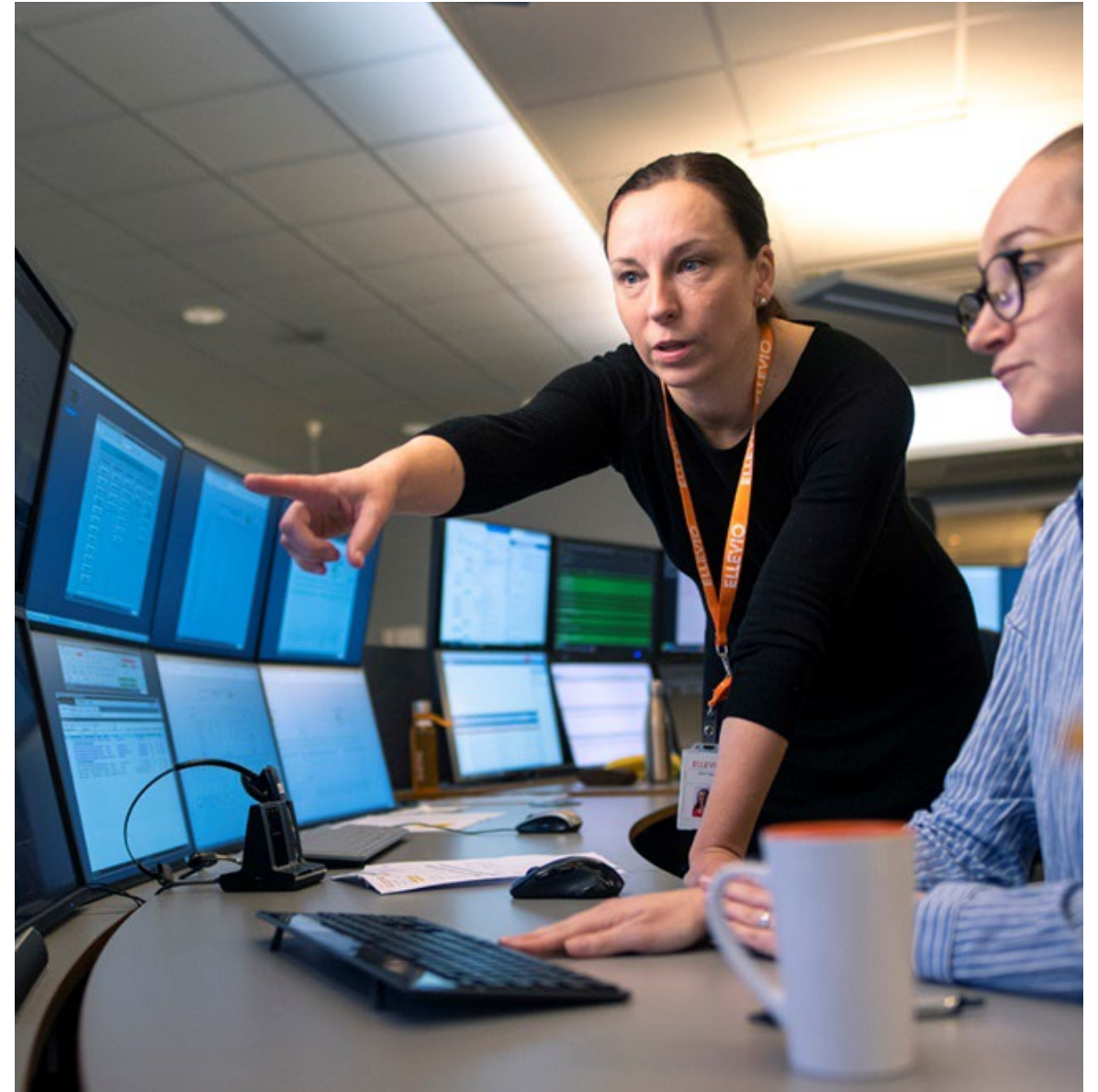
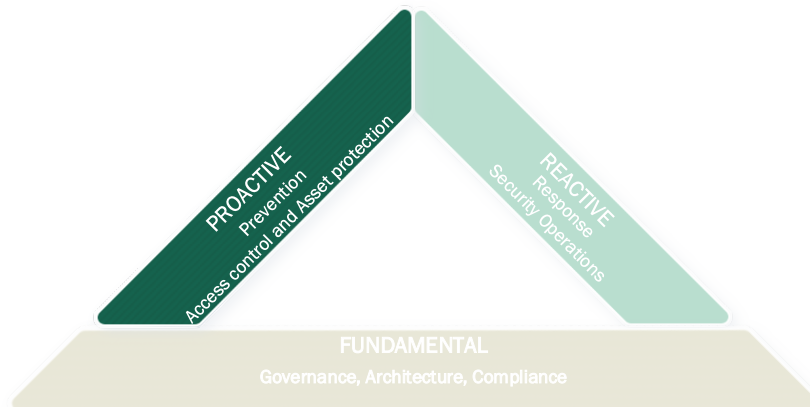
Fundamental

- Information and Cybersecurity Framework
- System Classification
- Security architecture
- IT Risk and Regulatory Compliance



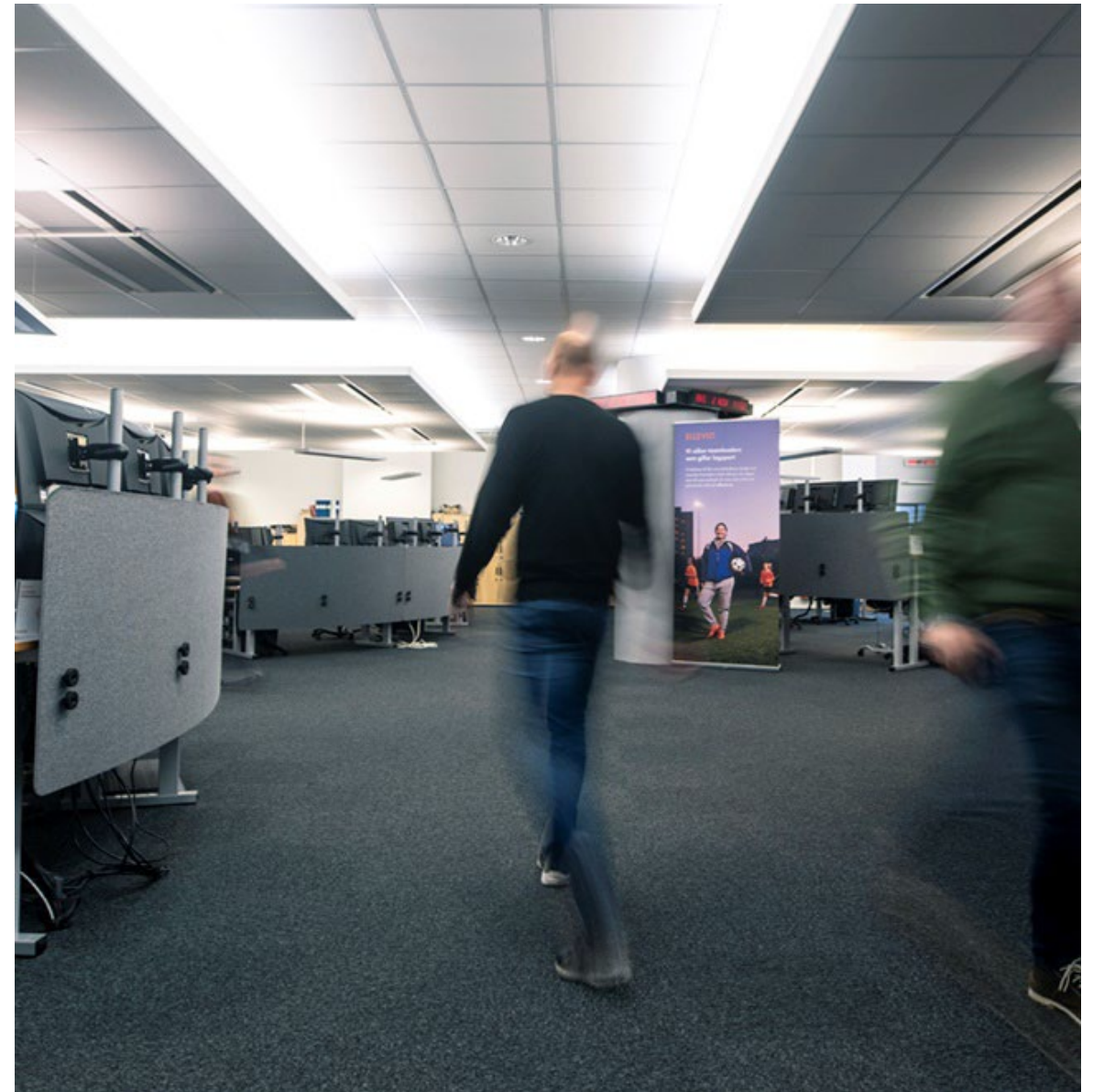
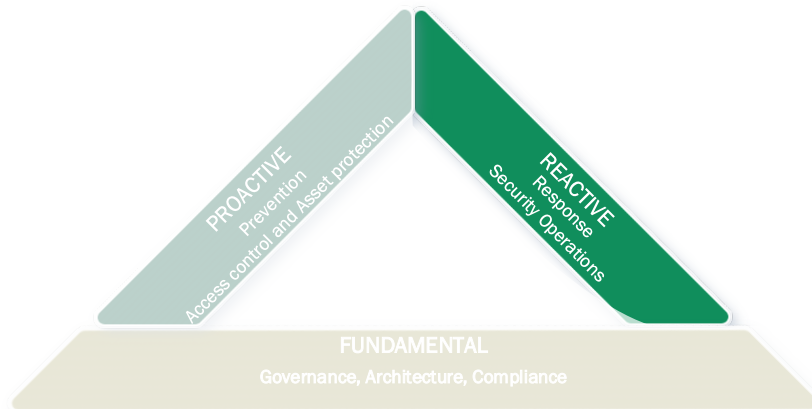
Proactive

- Strengthening cyber resilience
- Training and education
- Purchasing support
- Recommendation and Vulnerability Management
- Safety guide
- Security Maturity Measurement



Reactive

- Detect and respond to cyberattacks
- Business intelligence
- Threat Detection
- Forensic analysis
- Exercises and tests



Safety is a team sport



Examples of common areas

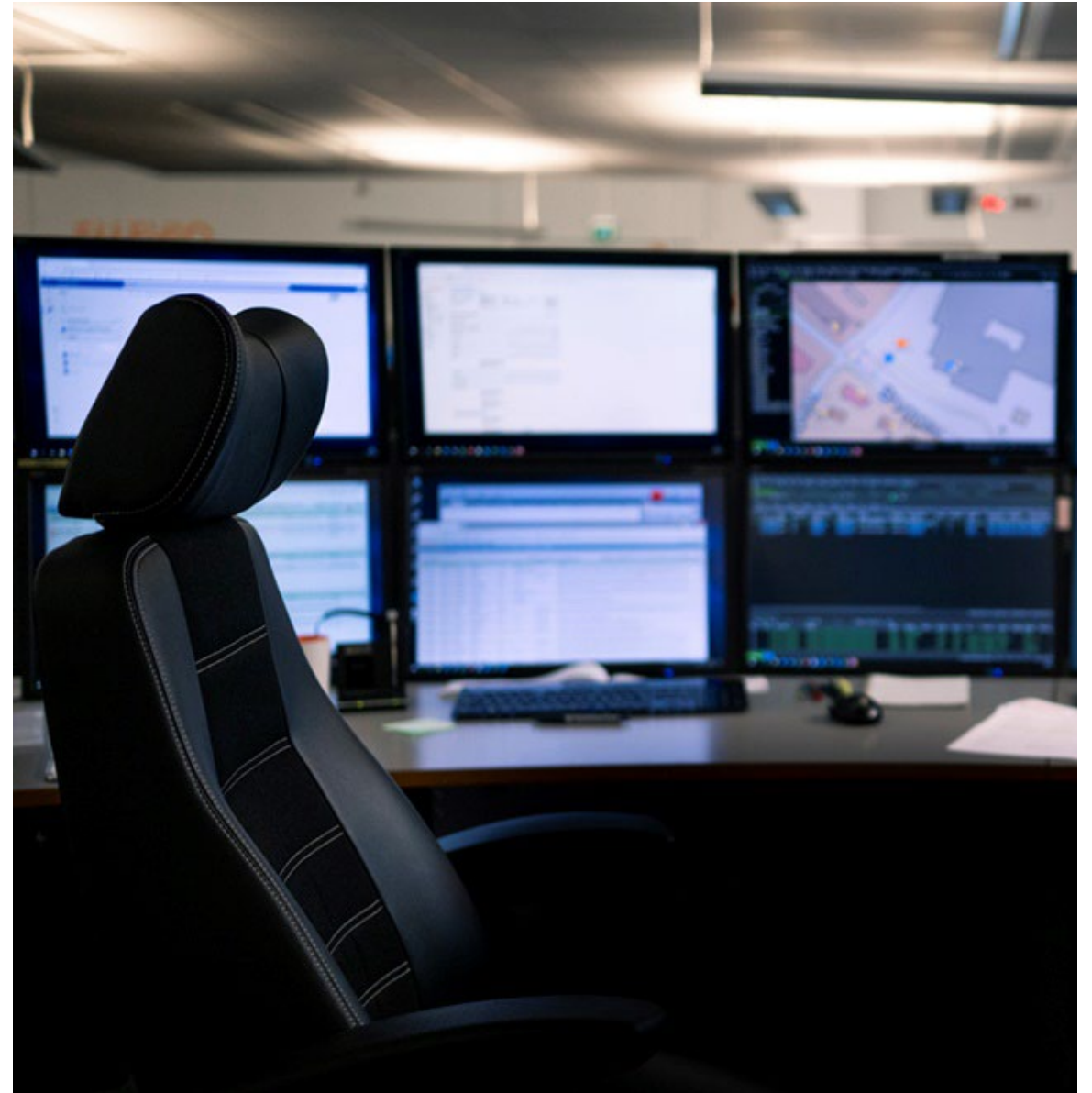
- Business intelligence
- Threat and risk modelling
- Attack Information Sharing (MISP)
- Information sharing and analysis
- Principles of automatic feedback
- Automatic reporting

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Case

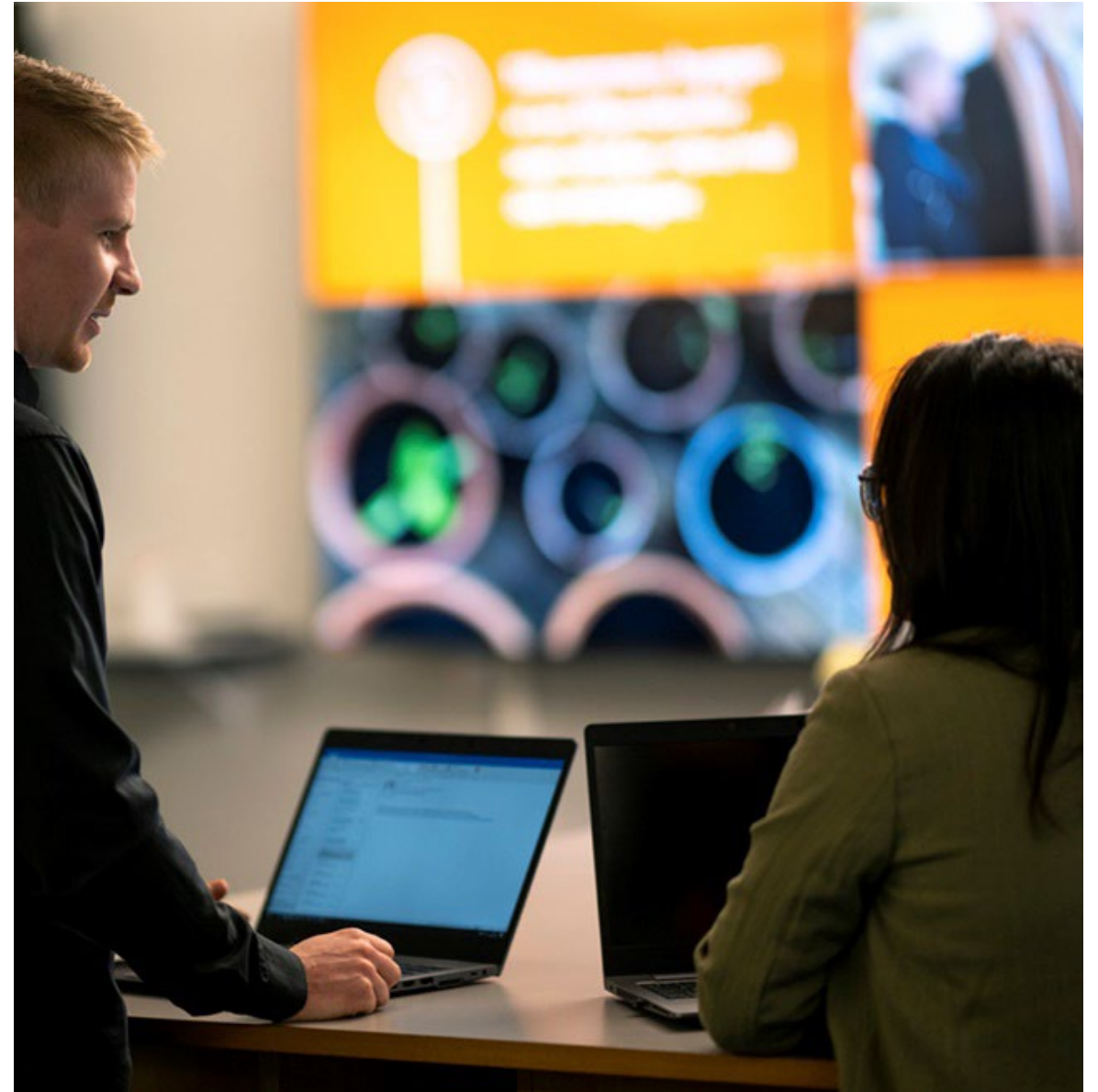
Supplychain-attack

An attacker uses a subcontractor to attack Ellevio:
Example: The 2024 attack on TietoEvry where an IT supplier was taken over.



Questions to discuss

- How do we work better together in the event of an attack?
- How and when should we inform each other?
- What incident information do you expect from us?
- What kind of information can we share freely between us in the event of an incident?



ELLEVIÖ

Electrically powered projects today and tomorrow

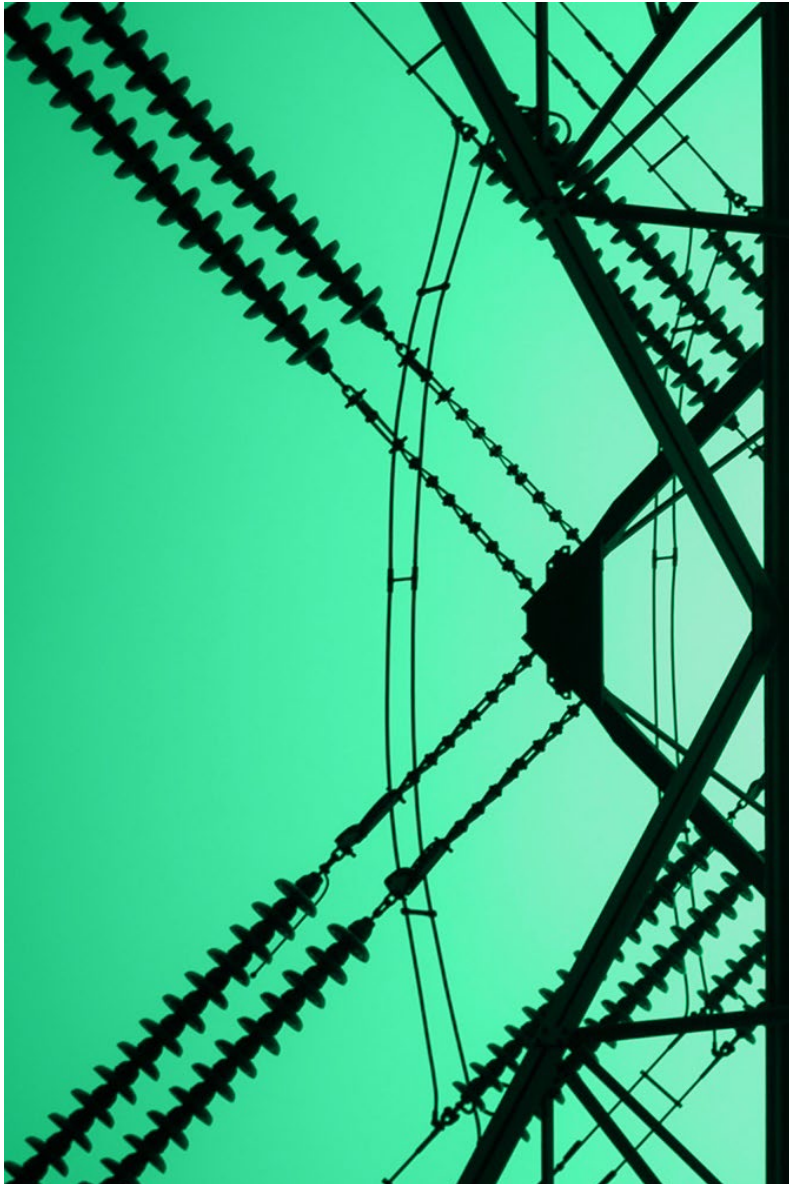
Mathias Stenemyr, Pure Energy
och Veronica Sund, Oslo
municipality



+ PURE
ENERGY

Electric Powered Machines

Autotranslated. In case of discrepancies, the Swedish version applies.



Time for about 30 minutes of simple things

-Emission-free machines

But we'll start with some quick questions for you participants to warm up!

The rules are simple,

No hand up= No

1 hand up for "yes, that's okay"

2 hands up for "YES, Of course"

First question!

Who in here likes electricity?



Autotranslated. In case of discrepancies, the Swedish version applies.

Second question!
Who in here likes El... io?



Autotranslated. In case of discrepancies, the Swedish version applies.

Third question!
Who in here charges their phone or electric car at night?



Autotranslated. In case of discrepancies, the Swedish version applies.

Fourth question!
Who in here wants a better working environment in the
projects, less disturbing noise for the surroundings
&
create a better future for children and grandchildren?





Mathias Stenemyr- CEO & Founder

Experience from the construction industry (approx. 20 years) in senior positions.
Started my journey as a machinist on to supervisor-site manager
Founded the consulting company AKVI, where we supported clients in civil engineering projects
Founded Pure Energy about 3 years ago, launched in 2024.

Pure Energy is Sweden's first emission-free rental company.

Our business is to create completely emission-free workplaces.

We do this through our three business areas

-Rental

We have exclusively products that run on electricity.

Everything from a screwdriver to 25-ton excavators.

-Consultation

By supporting clients and contractors, we can enable maximized added value of emission-free products

-Service/transport

Emission-free transports take place with our own fleet up to 3.5 tonnes.

Own workshop with certified staff on high-voltage electricity in vehicles.



Emission-free projects, why?

THE BENEFITS OF EMISSION-FREE PROJECTS

The advantages of emission-free machines are far more than just providing zero emissions during use, such as

- Who doesn't want a better working environment in the projects?
- Who doesn't want less disturbing noise in the projects, which can increase the efficiency of the projects?

"Who doesn't want more energetic colleagues who make the overall accident statistics probably decrease?

-No emissions of NOx gases, the greatest effect is on compact machines that do not have requirements for cleaning exhaust gases.

The list goes on...



Emission-free projects, Myths

There are a number of different myths associated with emission-free machines

Tex:

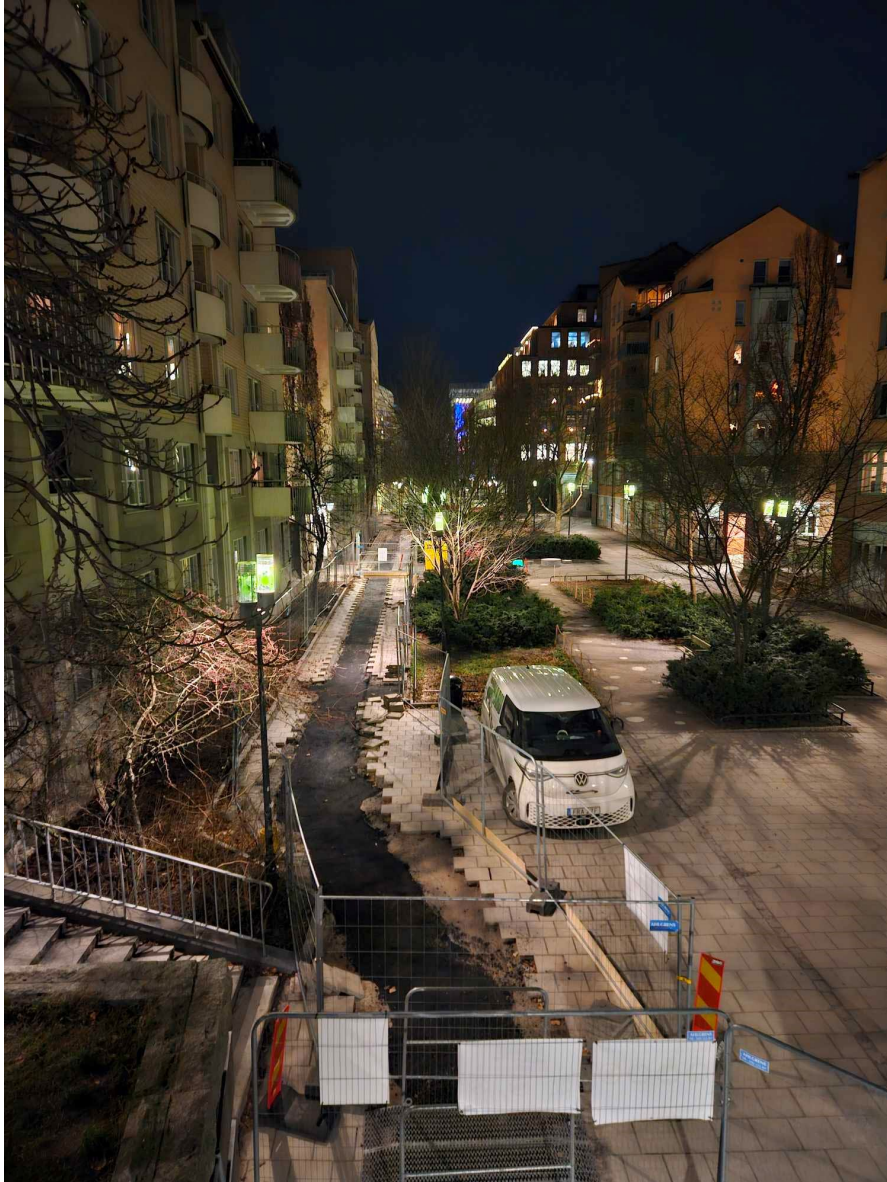
- I work 8 hours but it says that you can only drive 4-6 hours on a charge, that is never possible? Or?
- It's too expensive with electric machines?
- There is no power to charge the machines with where I work.





E-Driving Emission-free in the real world

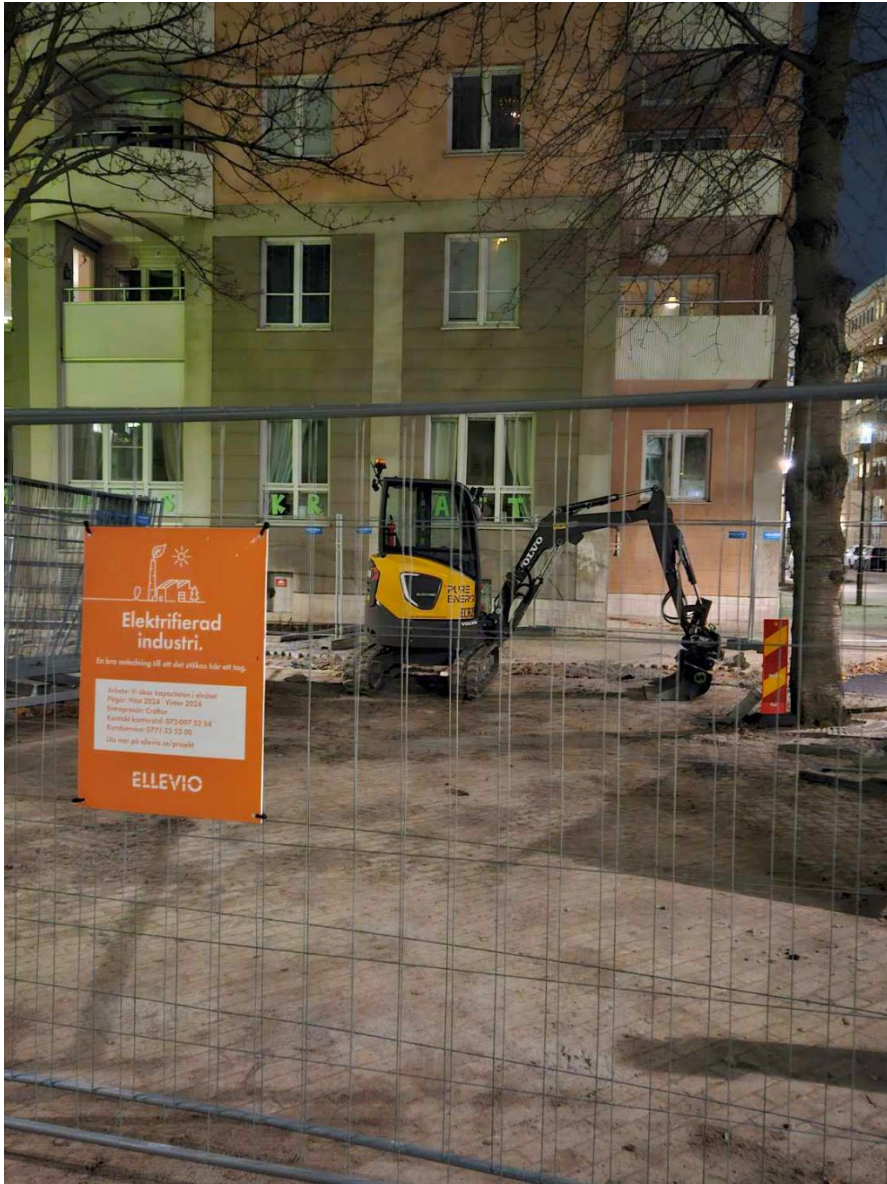
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Project- Södermalmsallén

Emission-free project where several electric machines were used.

Among others: Excavators, wheel loaders, dump trucks, crosscut saws, soil compactors, loadbanks



Project- Södermalmsallén

E-driving

-Running electrified projects is not difficult.

The machines work in the same way as a traditional one, there are a few things to keep in mind to make the transition worry-free.

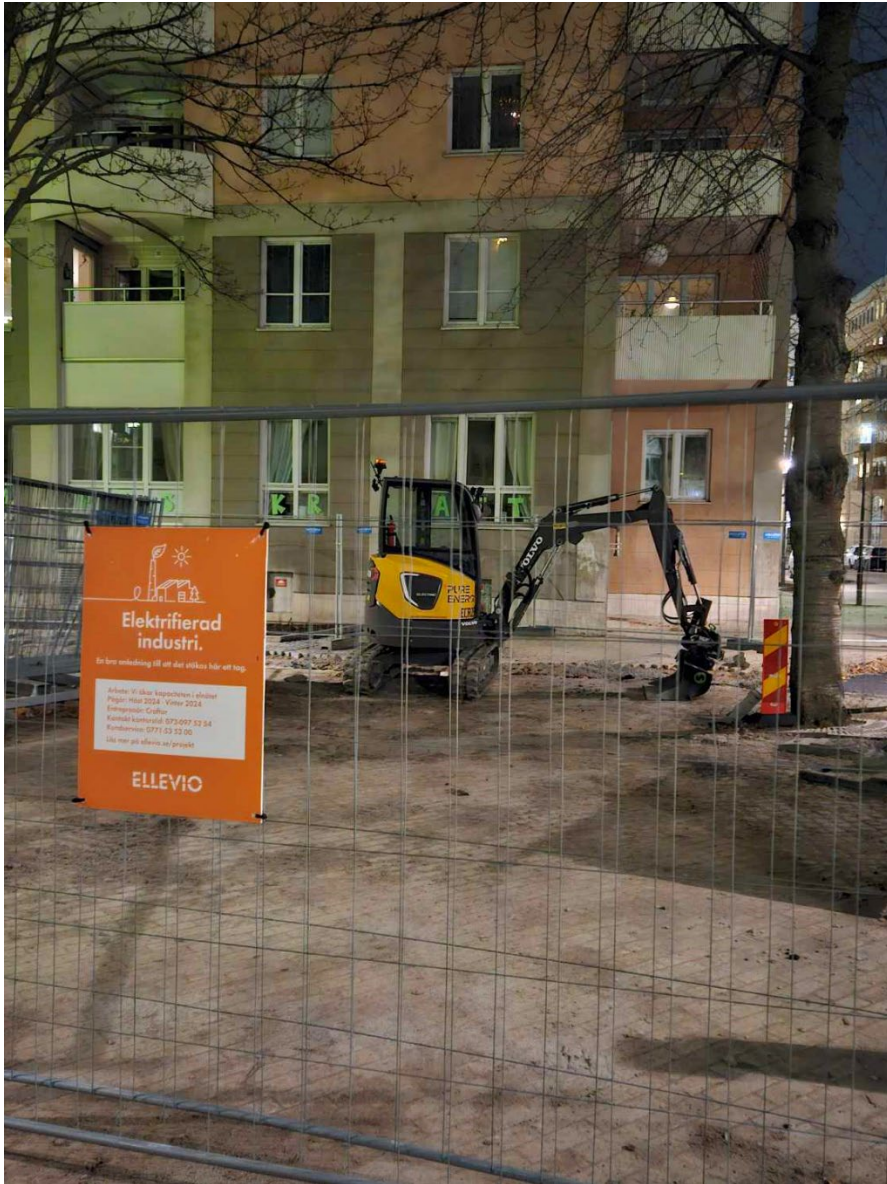
Tex:

-Do you charge your phone at night?

Yes, most people do and it's the same for an electric machine, charge overnight and set the heat and you have a hot machine in the morning.

"Everyone needs to recharge their batteries.

Of course, you should eat your lunch box in peace and quiet, plug in the charging cable while you eat and you also top up the battery in the machine while you have a break.



Project- Södermalmsallén

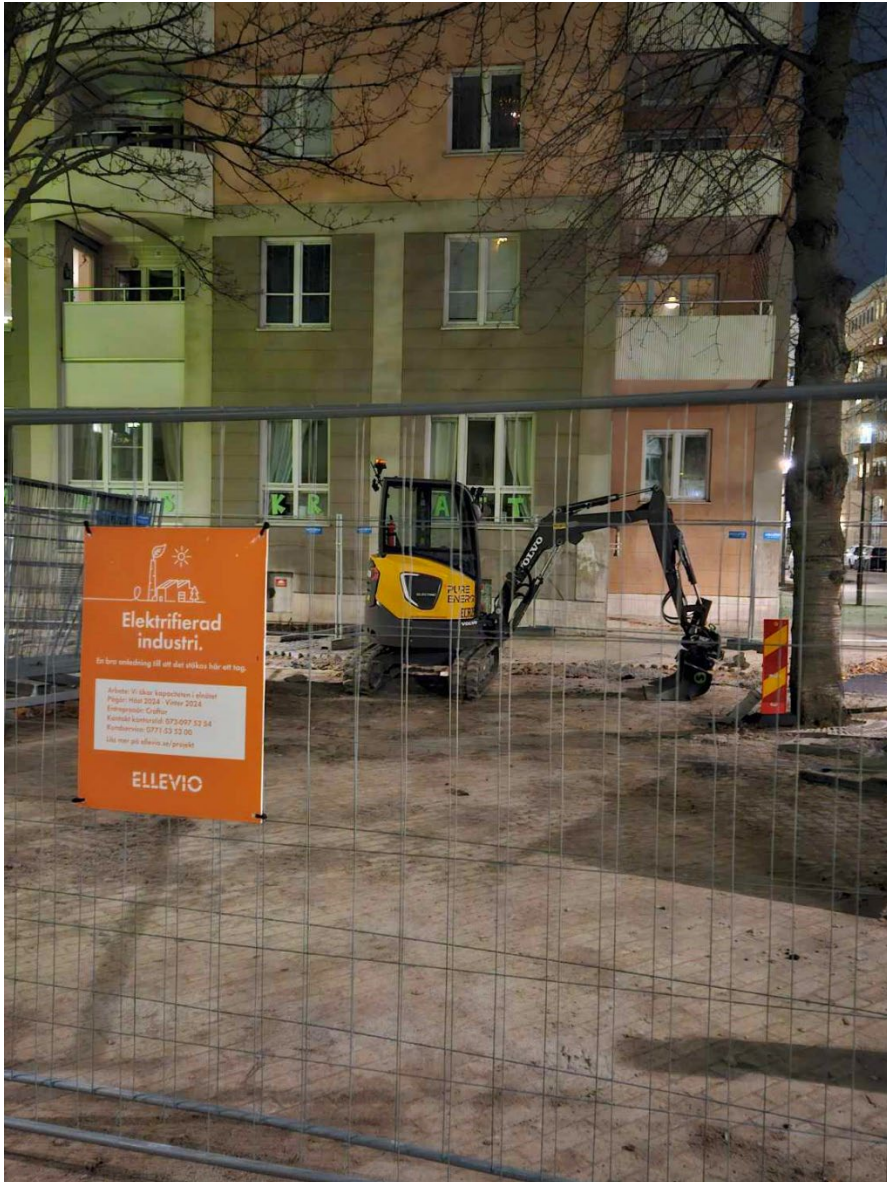
E-driving

-Driving times?

As we went through with the myth "an electric machine can't last a whole day"

That a soil compactor can "only" run for 70 minutes on a battery, how much do you actually drive?

Statistics from machines show that you have about 40% idle on a traditional machine. In electric operation, it is 0%.



Project- Södermalmsallén

Reflections

Quots:

-Housing: I've worked in the construction industry all my life and always wake up to construction noise in the morning, but now I've slept despite your project!

-Construction worker: I am usually always tired in the afternoon but now I am much more alert due to less noise from the machines.

Digitizing

Digitalization of projects

As the transition continues, so do the demands for digitalization.

Reporting machine hours and consumption is made easy via the telematics systems that provide a detailed picture of usage.

TEX

"At present, we can read user data/consumption that can facilitate the production of climate calculations in the final phase of the projects

"Based on consumption data, you can clearly see the benefits of the emission-free segment and how to forecast, for example, the need for grid connection in future projects.



Digitizing

Examples of what the accounting can look like.

Ellevio- Södermalmsallen 2024 Edit report Download Save report

Sustainability report

Report settings Energy source: Hydro (360 MW) CO2 factor: 0.011 kg CO2 / kWh	Work time 44%	Total Fuel Saved 67L	Total CO2 saved vs. diesel (kg) 181kg
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Chassis ID / Name	Work time (%)	Consumption (kWh)	CO2 emissions (kg)	Fuel Saved (L)	CO2 saved vs. diesel (kg)
∨ C25DL010660	39	253	2,8	25,4	68,3
∨ L25HL321369	64,2	418,8	4,6	42	113,1
2 machines	44	672	7	67	181



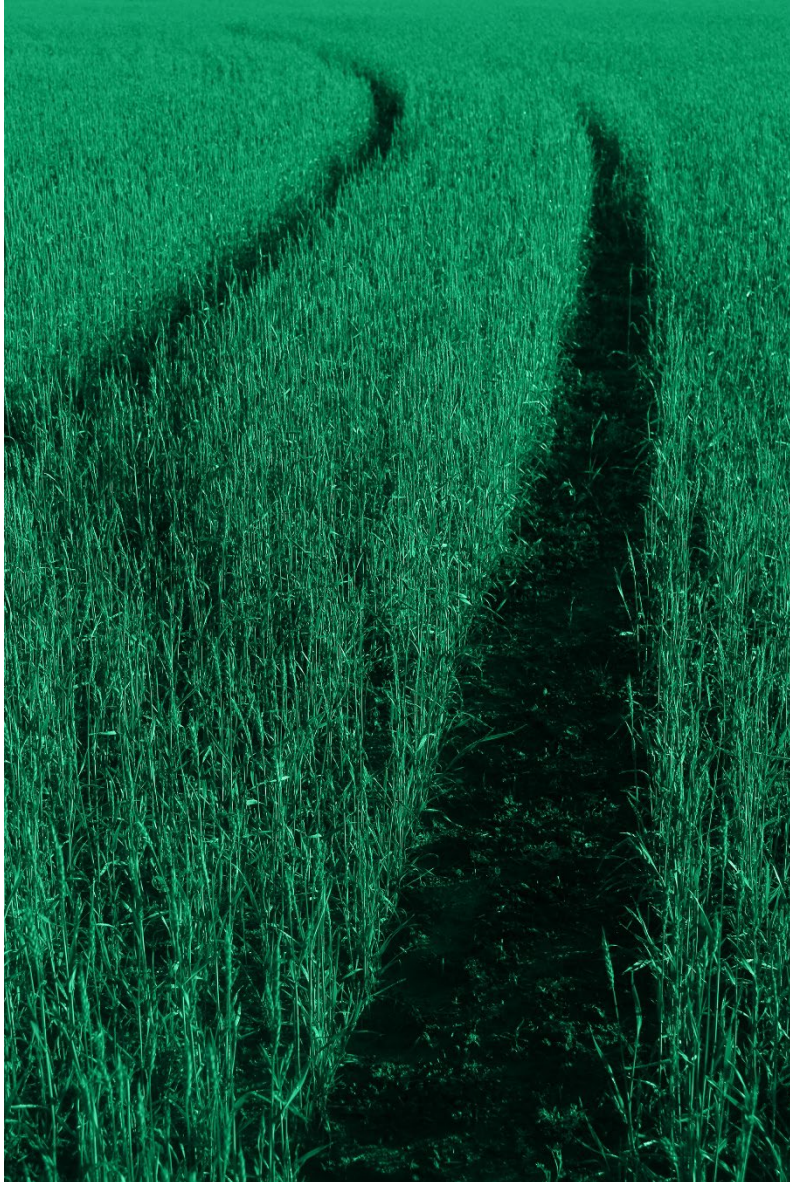


Future... Where are we going?

There is a clear goal to switch to electrified contracts.

Today, it is possible to carry out completely emission-free contracts, but with less compromise, as not all traditional products are emission-free.

Development is constantly advancing.



Let's start with a look back at Sweden

2 years ago there were a few electric machines

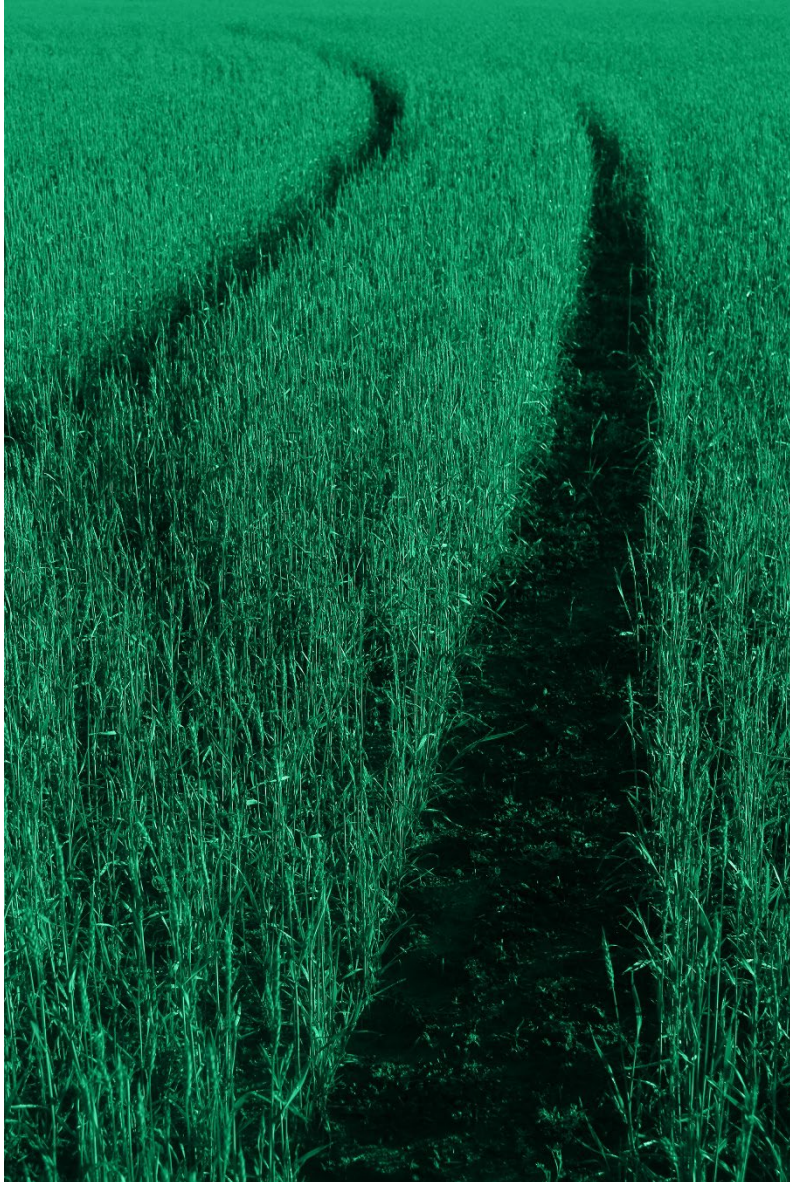
Project

Fossil-free contracting-Slakthusområdet 2022

10% of excavator hours will be electrically powered.

The first electric project was launched – Persikan in 2024

(In 2023, this was also fossil-free.)



Good examples - Norway

2017- Requirements are introduced that building and civil engineering projects must be fossil-free.

2019- First emission-free workplace

2023- 77% emission-free machine hours on the job sites

2025- All construction projects emission-free



Products

The range today
The compact segment
Excavators: approx. 2.5t Class
Wheel Loader: 4-6t Class

Mid-Range
Crawler excavators 8 tons
Wheeled excavators, 16 tons

Heavy segment
Excavators: approx. 25-35t and Wheel loaders 15-20t
Ground compaction: 50-750kg
Rollers: asphalt rollers 2.6t



Development - A glimpse of the future

Product launches

Mid-range excavators/wheel loaders

5-18 tons

Heavy segment

Excavators approx. 35t+ and Wheel Loaders

Rollers: Single roller rollers 5-16t

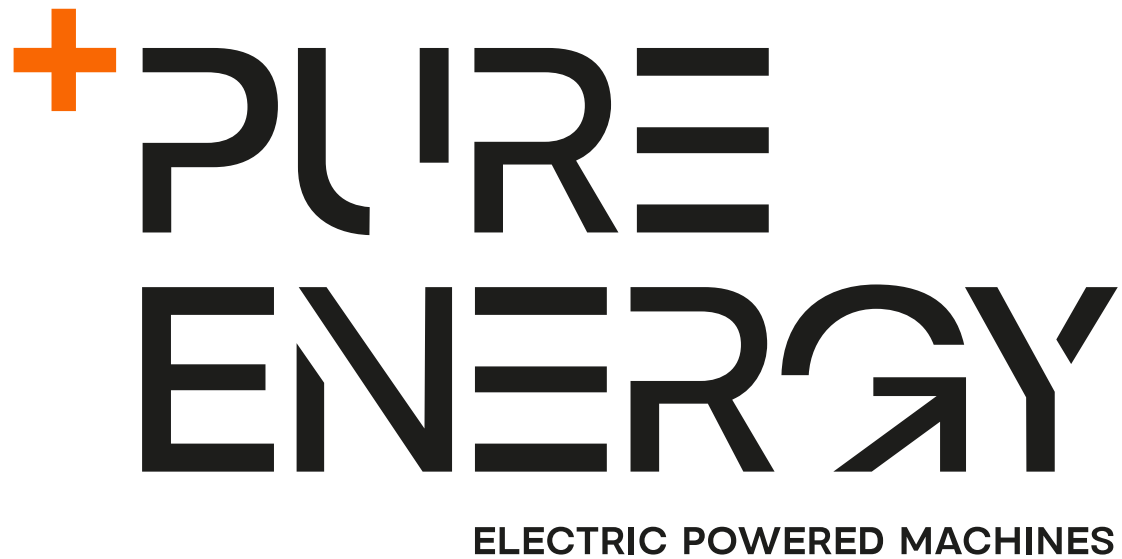
Dump trucks: Different types of operating solutions are reviewed, e.g. fuel cells.

In general, engine solutions are reviewed, such as with fuel cells.



Questions?

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- Mathias Stenemyr - CEO & Founder
- Mathias.stenemyr@pureenergy.se
- 070-444 81 07

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Rating menti.com 1527 5027

Reply if you want – click "send" to move on. Tre frågor:

What do you take with you?

Suggestions for improvement?

Evaluation




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Presentations will be published here shortly:



Thanks for today!

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**Now it's time for mingle,
dinner and award
ceremony!**

Dinner at 6 pm

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