

Miljöarbete

Wabtec Faiveley Nordic

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Safety first



The safety of persons and the protection of the environment are very important to us, which is why we wanted to share some essential information and instructions with you.

Enjoy your stay on our site.

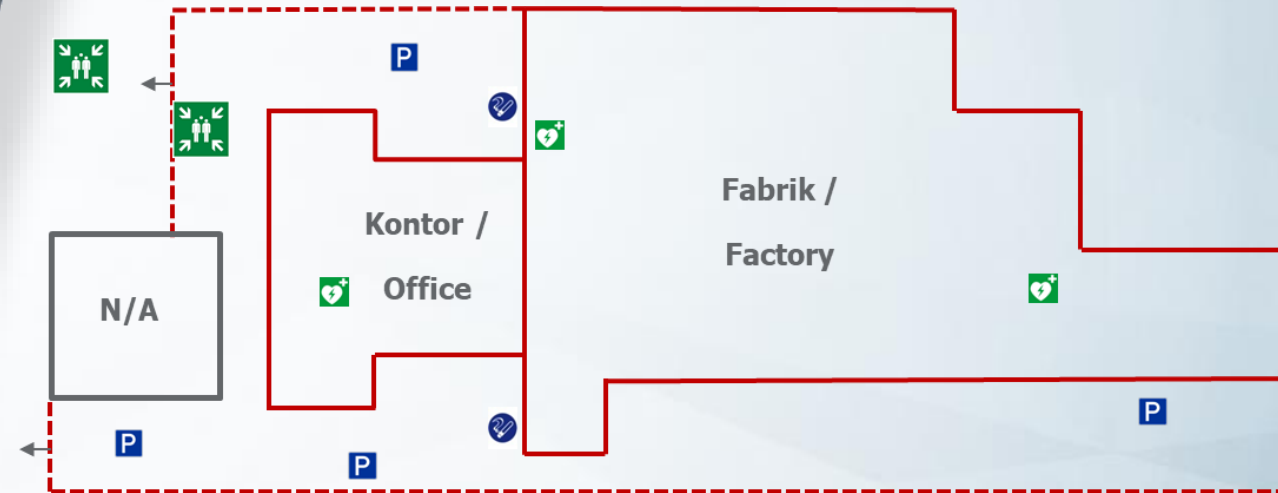
Per Renmark, Site Director

Safety first

When the general evacuation alarm sounds, you must:



- 1.** Take the nearest emergency exit and go to the assembly point the grassed area behind the Nordic building (see map).
- 2.** Stay close to your Wabtec Nordic contact.
- 3.** Wait for further instructions.
- 4.** Do not enter the building unless instructed to do so and the 'All Clear' has been given.



Safety first

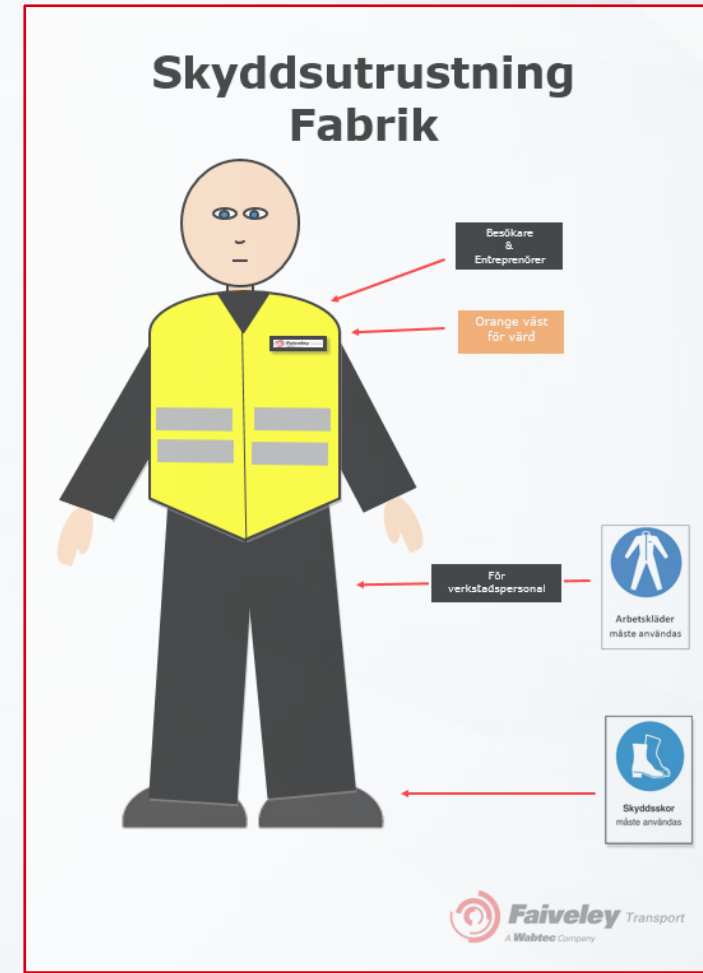


As a guest to Wabtec Faiveley Nordic following personnel protective equipment (PPE) is mandatory:

- safety shoes
- safety vest

To enter a work cell the personnel protective equipment shown on the work cells PPE man must be followed.

Example of PPE man →



Diverse portfolio of businesses uniquely positioned to outperform the market

Freight segment

Equipment



>20%

Of the world's rail freight is moved by a Wabtec locomotive

Services



2.5M

Messages monitored daily on Wabtec locomotives

Components



>30%

Of content on a Freight car capable of being Wabtec

Digital Electronics



>30%

Of North American freight moved through ports managed by Wabtec software

Transit segment

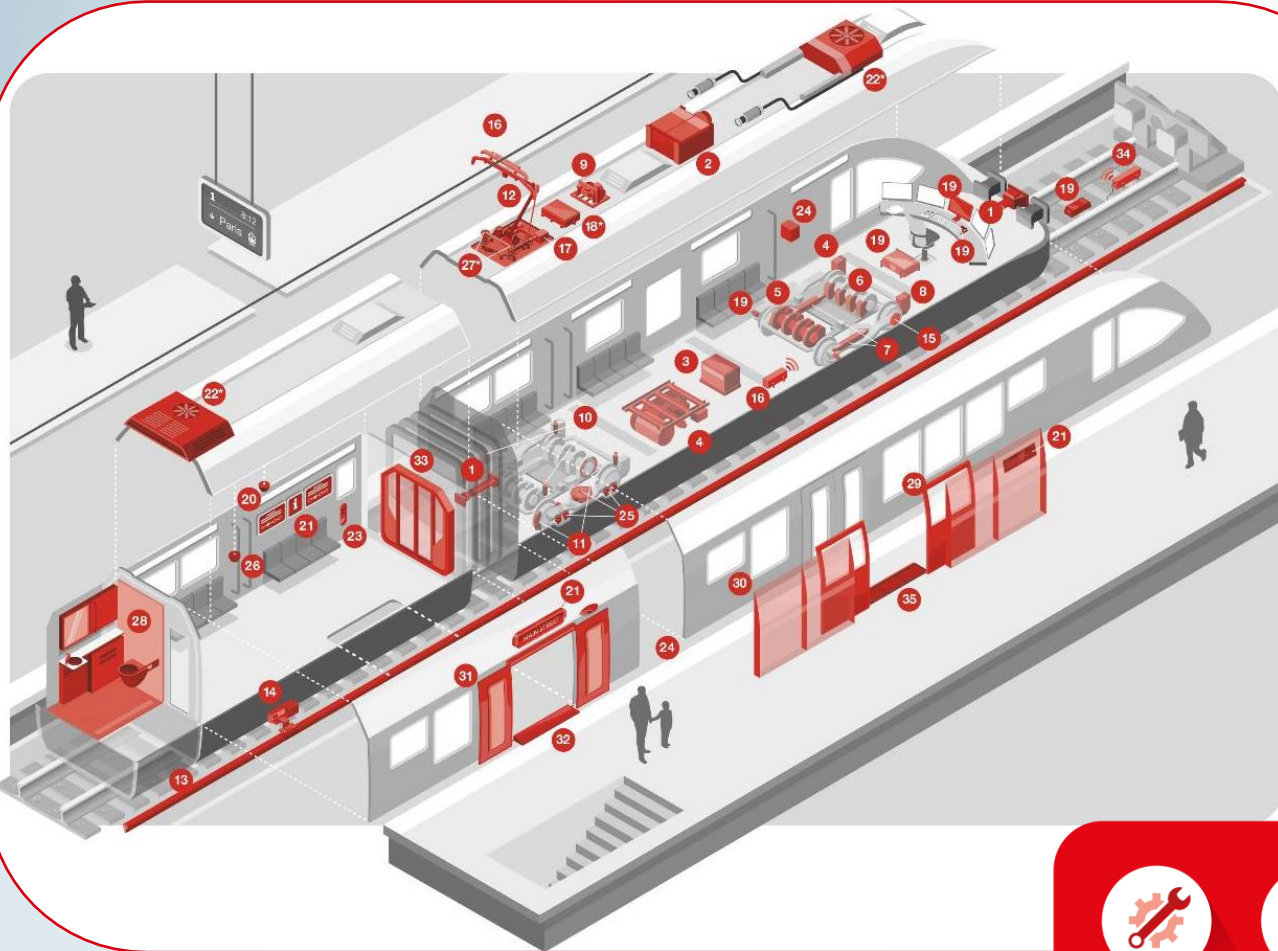
Transit



>15%

Rail passenger cars equipped with Wabtec safety critical components

Transit Rail Solutions



Energy, Comfort & Access

*Energy Efficiency solutions

- | | |
|---|---|
| 1. Pantographs | 13. Relays |
| 2. Third Rail | 14. Suspension |
| 3. Third Rail Current Collectors | 15. Fire detector |
| 4. Ground Contacts | 16. Energy meters * |
| 5. Carbon Brushes/Strips | 17. Sanitary systems |
| 6. Switches & Contactors | 18. Platform doors |
| 7. Auxiliary power systems (APS)* | 19. Automatic platform gates |
| 8. Driving aid & event recording | 20. Access doors |
| 9. CCTV | 21. Movable step and ramp |
| 10. Public Address & Passenger Information Systems* | 22. Interior doors |
| 11. Cab & saloon HVAC* | 23. Platform/Train safety communication |
| 12. Heaters | 24. Mechanical gap filler |

Brakes & Safety

- | | |
|---|--------------------------------|
| 1. Couplers and/or Draw gear | 7. Magnetic track brake |
| 2. Air generation and treatment unit | 8. Sanding system |
| 3. Brake control | 9. Pantograph compressor |
| 4. Brake frame | 10. Hydraulic levelling system |
| 5. Wheel and axle mounted discs | 11. Wheel profile & Brake pads |
| 6. Disc brake unit and tread brake unit | |

Transit Services

- Engineering Services
- Spares & Trading



INSTALLATION



COMMISSIONING
& TRAINING



PREVENTIVE
& CORRECTIVE
MAINTENANCE



UPGRADES



REMOTE DIAGNOSTIC
& PREDICTIVE
MAINTENANCE



RELIABILITY &
MAINTAINABILITY
STUDIES



CONNECTIVITY
& CLOUD
SERVICES SOLUTION



ENERGY SAVING



OVERHAULS

Wabtec Nordic - Overview



Aalesund

- Service & Overhaul

Denmark
Semvac A/S
(Odense)



Stockholm

- Market & Sales
- Service & Overhaul
- Stemmann Industrial



Landskrona

- Market & Sales
- Project Management
- Engineering
- Research & Development
- Purchasing & Supply Chain
- Manufacturing
- Service & Overhaul
- Quality Management
- Finance & IT
- Human Resources

NORDIC region

◦ **580MSEK**

2022 sales

◦ **7,9%**

*Annual sales growth
since 2011*

◦ **~200**

Employees

◦ Services allocated
operating units

◦ Operating units

Wabtec Nordic - History

1915

THULINVERKEN is founded by Enoch Thulin in Landskrona. 99 airplanes and 700 engines are produced.



1916

SVENSKA AKTIEBOLAGET BROMSREGULATOR (SAB) is founded in Malmö and the first automatic slack adjuster is invented.



1928

THULINVERKEN starts production of SAB slack adjusters in Landskrona.

1990

SAB acquires the European part of WABCO (Westinghouse Air Brake Company) and becomes one of the world's largest producers of brake systems.



2004

FAIVELEY TRANSPORT acquires SAB WABCO and can now offer the widest range of systems to train manufacturers.



2016

WABTEC Cooperation acquires FAIVELEY TRANSPORT Forming a company of nearly 20.000 employees.



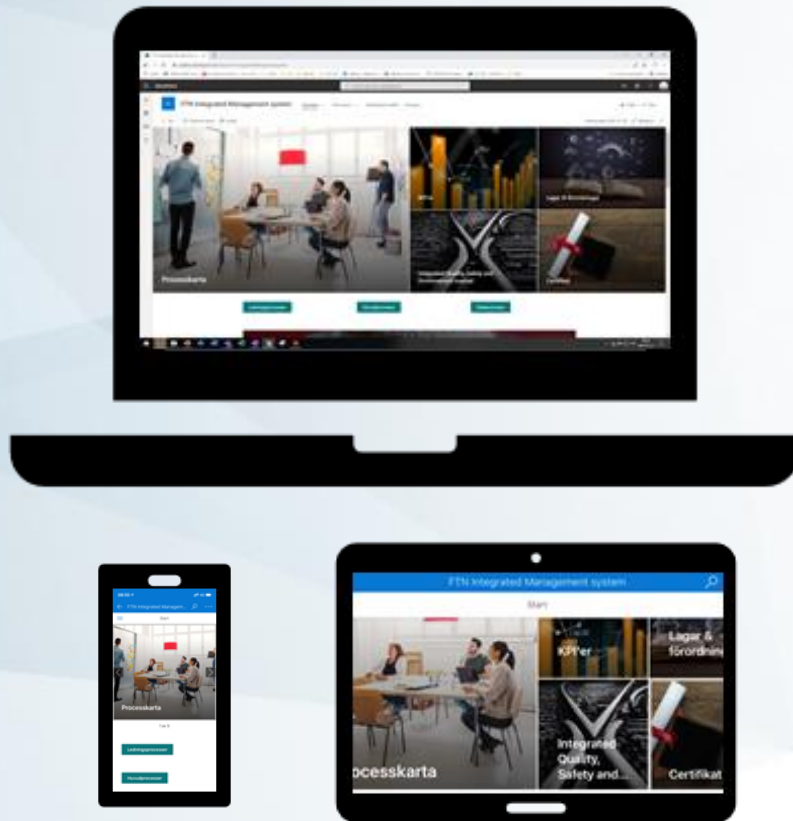
2019

WABTEC Cooperation acquires GE Transportation forming a company Listed at fortune 500.



Quality

- Integrated Management System



Certificates

ISO 9001
ISO 14001
ISO 45001

BUREAU VERITAS
Certification



ISO/TS 22163:2017

BUREAU VERITAS
Certification



BUREAU
VERITAS

TSI certificates

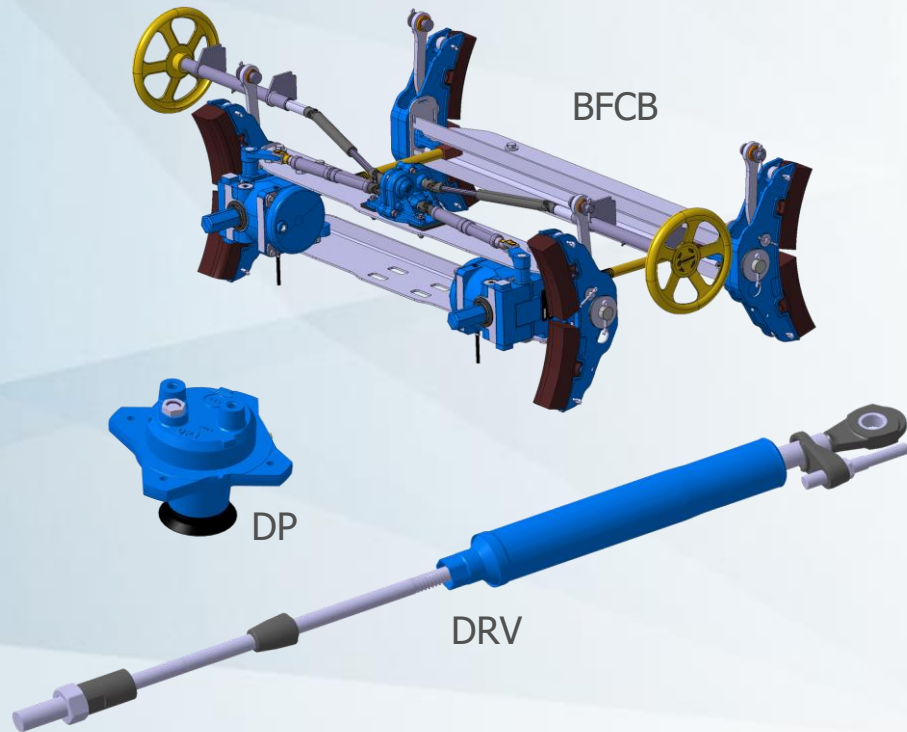
- Management system
- BFC
- BFCB
- DRV
- DP 1 & 2



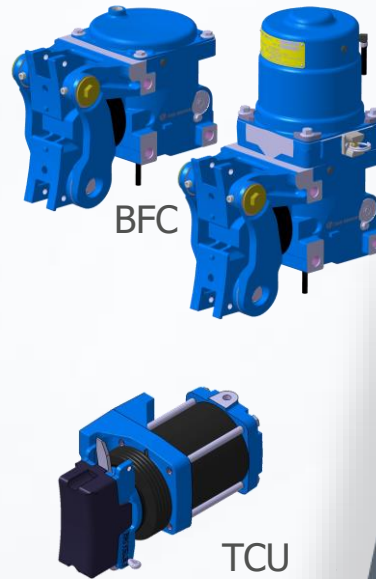
Certified 15085-04

Wabtec Nordic – Products

Freight



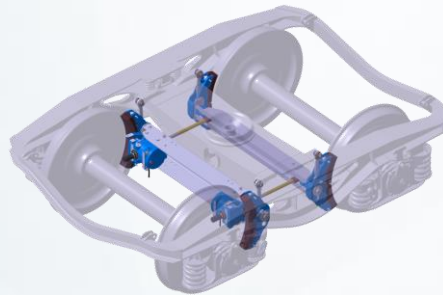
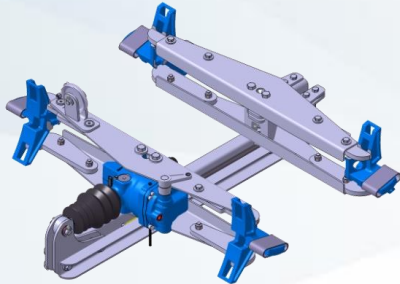
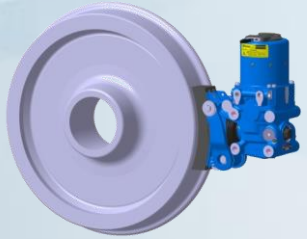
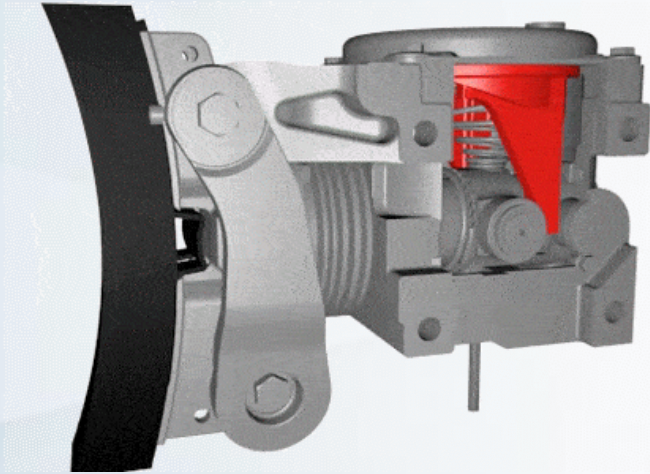
Transit



GLOBAL CENTER OF COMPETENCE

- Product- and Project Management
- Research & Development
- System- and Product Engineering
- Industrial Operations

Wabtec Nordic – BFC



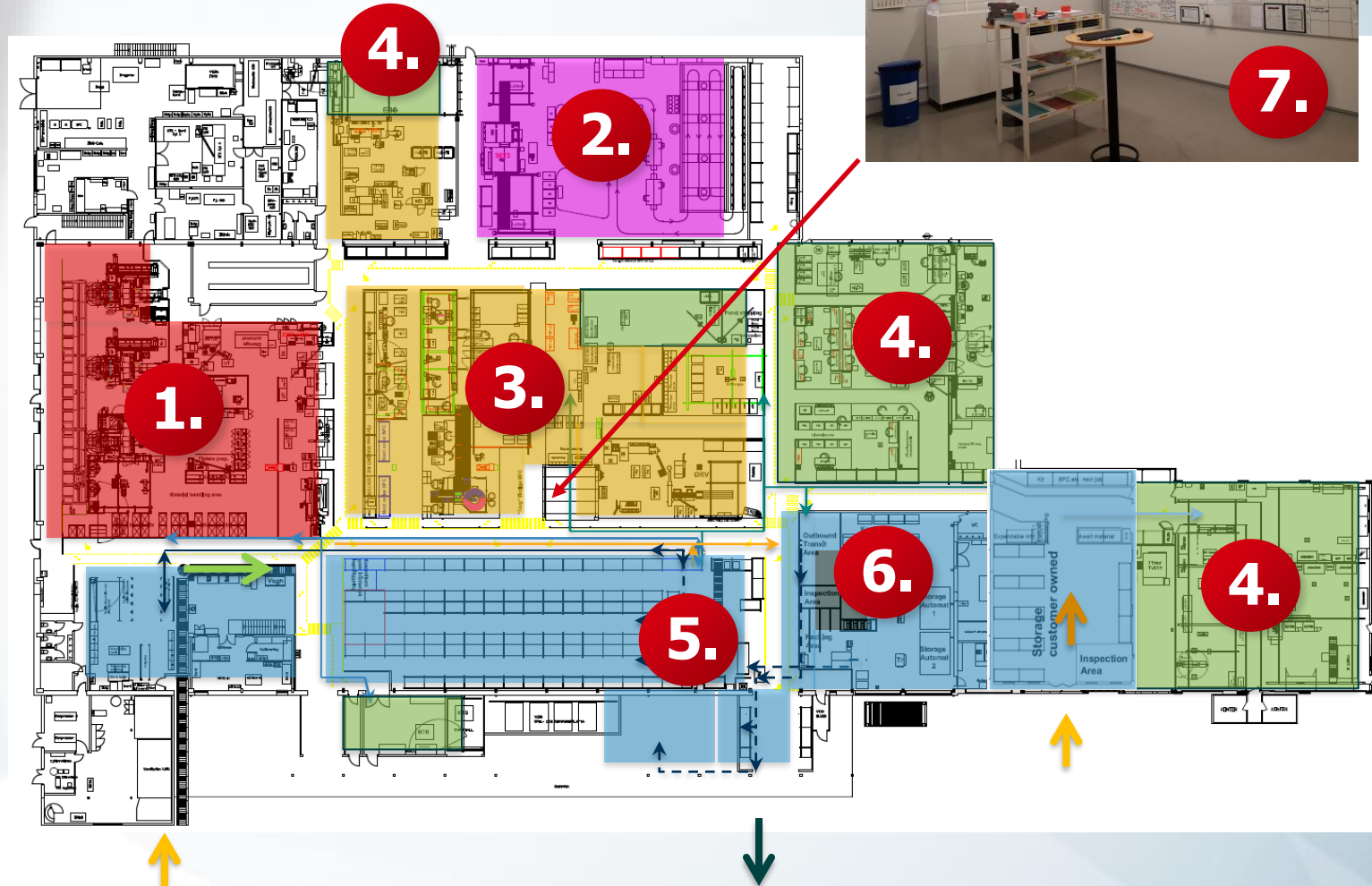
Brake Friction Concept or Bloc de Freinage Compact

- BFC first delivery 1979
- Total delivery: >200 000 units
- All over the world
- All types of vehicles:
 - Tread brakes
 - Disc brakes
 - Bogie brakes

Wabtec Nordic – Factory

8000 m2 Workshop

1. Machining
2. Surface treatment
3. OE Assembly
4. Service & Overhaul
5. Warehouse / Supply chain
6. Kitting Area
7. Daily management



Wabtec Nordic – Factory

Production

Machining



~24 employees

Modern milling cell with robot and a group of lathe machines



Painting



~3 employees

Cleaning and phosphating pretreatment & full conveyor powder coating line

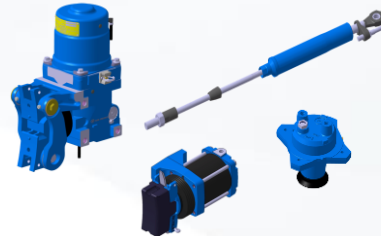


Assembly



~21 employees

Assembly and final testing lines for BFC, TC, Slack adjusters, DP valves

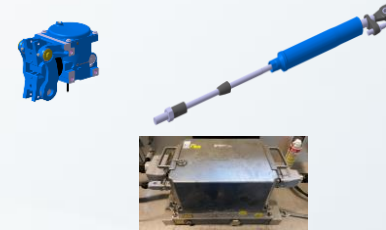


Overhaul



~20 employees

Overhaul of Brake actuators, valves, HVAC, AGTU, MTB, and more



Logistics

Warehouse & Kiting



~13 employees

Rail passenger cars equipped with Wabtec safety critical components



Miljöarbete

Hållbarhet hos Wabtec

Agenda 2030 & Wabtec Accelerate



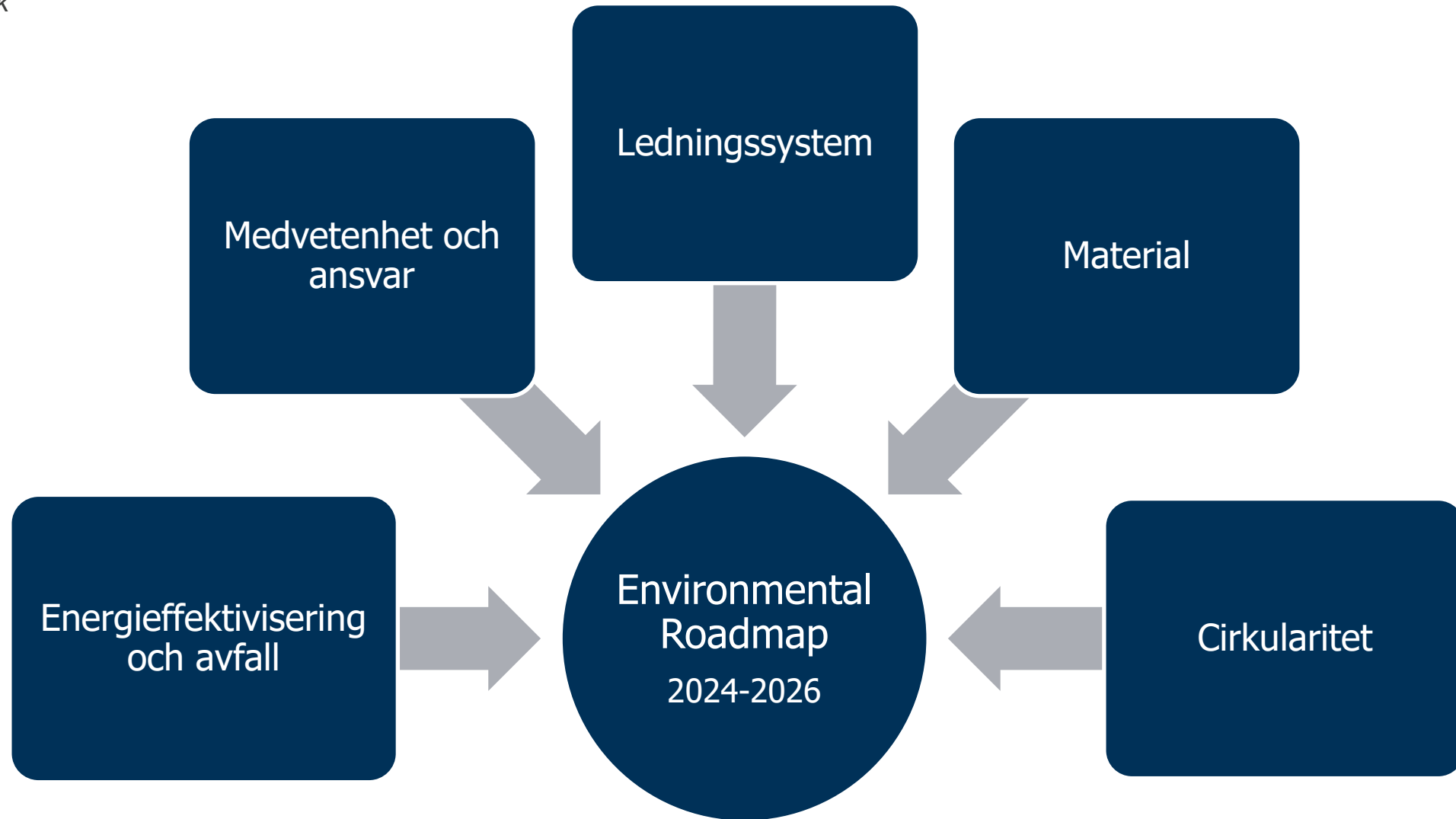
Hållbarhet & Miljö

Verka för hållbara järnvägstransporter av människor och gods genom ständiga förbättringar, innovativa och cirkulära tjänster & produkter.

Ett ökat utnyttjande av tåg jämfört med andra färdmedel ger stora samhälls- och miljövinster. Företaget jobbar förebyggande med att minska andelen oönskade kemikalier i våra produkter (i enlighet med REACH), minska avfall och effektivisera transporter/energianvändning för att begränsa vår påverkan på miljön.

Environmental roadmap

Överblick



Energieffektivisering och avfall

Plan och aktiviteter



Installation av LED

Isolering

Ventilation och avfuktning

Avfallsambassadörer

Kartläggning av fraktioner

Utbildning och tydlighet



Medvetenhet och ansvar

Plan och aktiviteter



Kommunikation

Riskrapportering

EHS-dag

Workshops



The Climate Fresk workshop



A **scientific, collaborative and creative** workshop designed to raise awareness about climate change in a fun way



A set of **42 cards**, each representing a component of climate change



Use the group's **collective intelligence** to link the **causes and consequences** of climate change



Engage participants to **take action**



"Climate Fresk is an innovative, participatory and accessible approach to understand the scientific basis of climate change. This exchange of knowledge is a key first step for everyone to choose how to act effectively, in line with the issues at stake."

Valérie Masson-Delmotte, Co Chair IPCC Working Group 1



ipcc
INTERGOVERNMENTAL PANEL ON
climate change



Ledningssystem

Plan och aktiviteter



Tydligare ansvarsfördelning

Enkelhet

Tydligare miljömål och uppföljning

Gapanalys ISO 50001

Material

Plan och aktiviteter

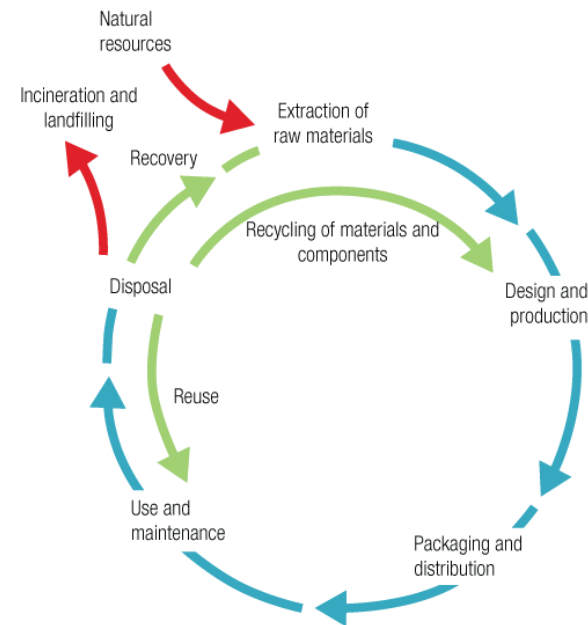


Procedur för ecodesign

Livscykelanalys – utökning

Användning av återvunnet material

 Wabtec CORPORATION	Transit Engineering Ecodesign Procedure	Document:	Procedure
		Reference:	TR-S-ENG-012
		Revision:	1.0
		Effective Date:	10/01/2023



Cirkularitet

Plan och aktiviteter



Cirkulära transportlösningar
(ventillådor)

Samlastning, samordning av
transporter

Metallåtervinning

Underhåll av enheter



Wabtec Nordic – Performed improvements



2018



- Green electricity
- Green district heating
- New machine park
 - Insulation
 - painting oven

2019



- Reuse of electronics
- Electric cars charging stations
- LED installation started

2020



- Electric bike leasing
- Waste sorting
 - Insulation main building

2021



- Solar cells
- LCA BFC G4
 - Waste analysis
- 100% fossil free heating

2022



- Ventilation and light adjustment
- Improvement idea box

2023



- LED installation completion
- HEPA recirc exhaust

Miljörapportering

Kategorier



Mängd och koldioxidberäkning för följande kategorier

- Insatsvaror (endast inköpt råmaterial)
- Vatten och energi
- Tillsatsvaror
- Restprodukter FA
- Restprodukter ej FA
- Transporter – gods, affärsresor, tjänstebilar

Miljöbokslut

- Reflekterar året
- Sätter nya mål



Environmental report 2022

FT Nordic

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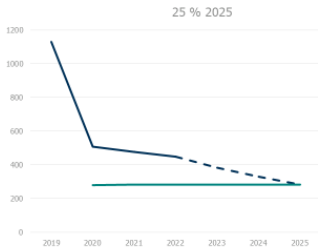
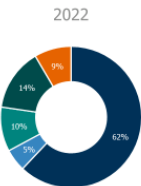


Environmental report

Carbon footprint – FT Nordic



Reduce to 25% until 2025



Data based on GHG Protocol Scope 1&2 +
Transports without aviation (only
approximated numbers)

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Environmental report

Improvements 2022 - reduce



Ventilation and light adjustment

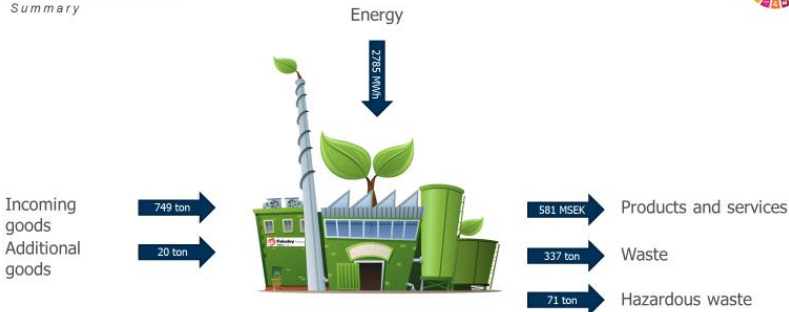
An overview of the ventilation and light was done during 2022 where time control was implemented.



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Environmental report

Summary

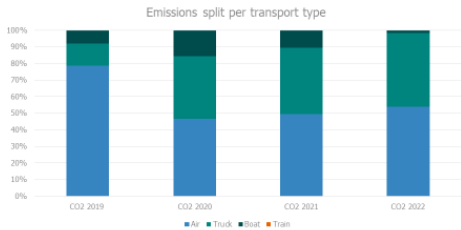


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Environmental report

Carbon footprint – Goods transports



A shift from air transport since 2019

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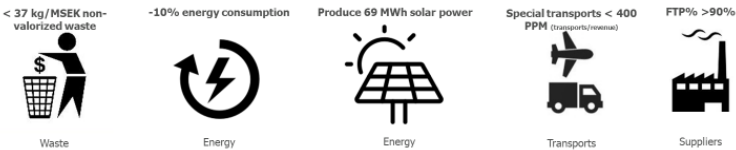
Environmental report

Goals for 2023



Vision
Work for sustainable railway transport of people and goods through continuous improvements, innovative and circular services & products.

Environmental goals for 2023

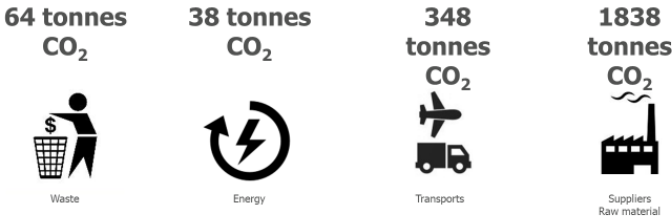


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Environmental report

Environmental aspects – CO2



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Environmental report

Improvements 2022 - reduce



Electric bike

A favourable opportunity for staff members to lease an electric bike was continued 2022 to encourage employees to use bicycles as transport to the office.



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Environmental report

Top 4 topics 2023



Waste treatment



Energy – LED and ISO 50001 focus



Green transports



GHG scope 3 - BFC Green



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