

Industry examples

Colruyt Group & Circle K



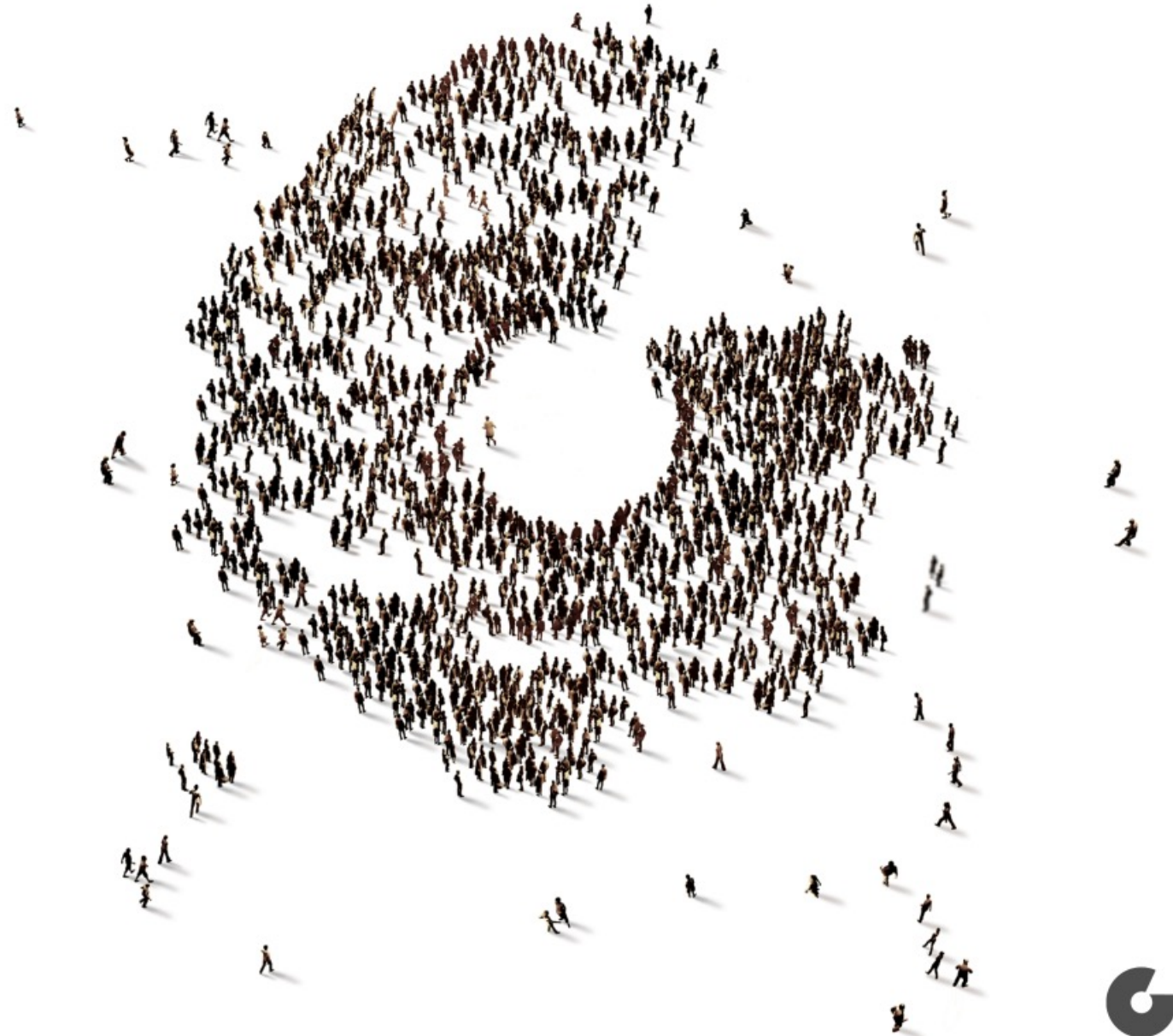


Colruyt Group Sustainability targets

29/05/2024

Our group mission

Together, we create sustainable added value through value-driven craftsmanship in retail.



2 40 complementary brands



Colruyt Group has a very diverse brand portfolio in different but complementary domains.

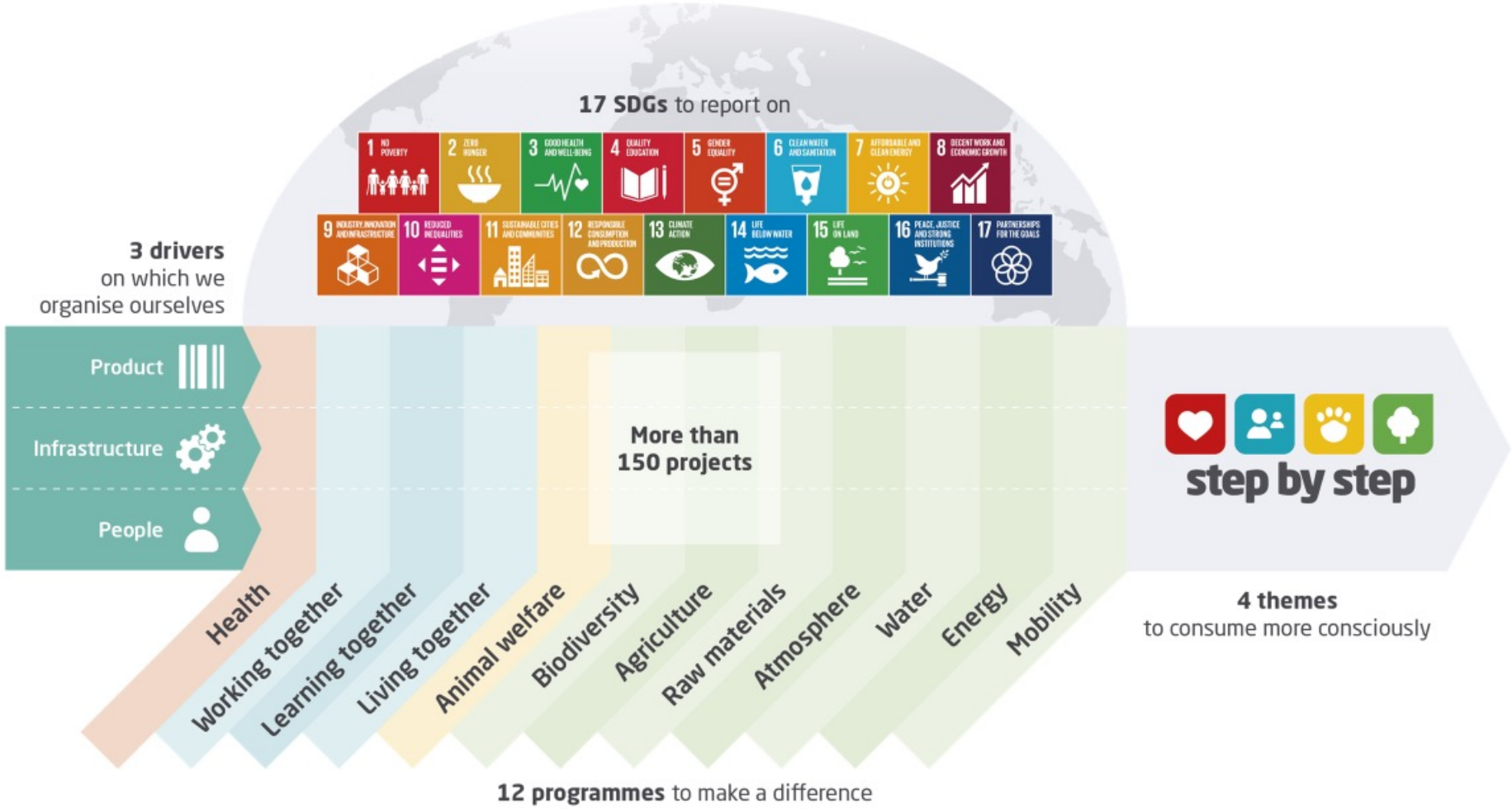


2 40 complementary brands

Results 2022/23 financial year



Our approach

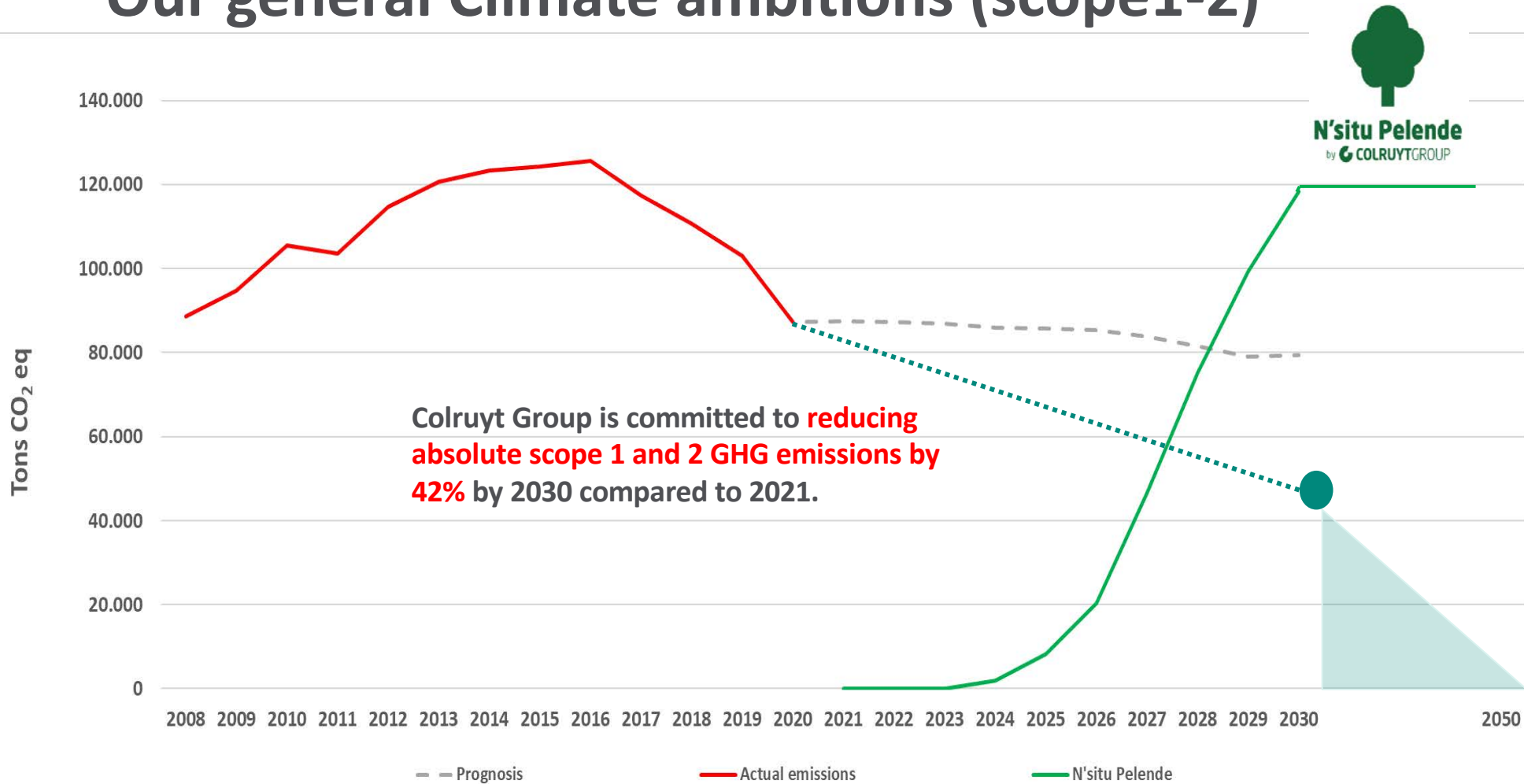


Our approach
(2:12 - English)



Why?

Our general Climate ambitions (scope 1-2)



11 % packaging

13% Cooling

27% Transport

49% heating

Our transport



1200

rides / day

+700

drivers / day

+400

44t tractors



1000

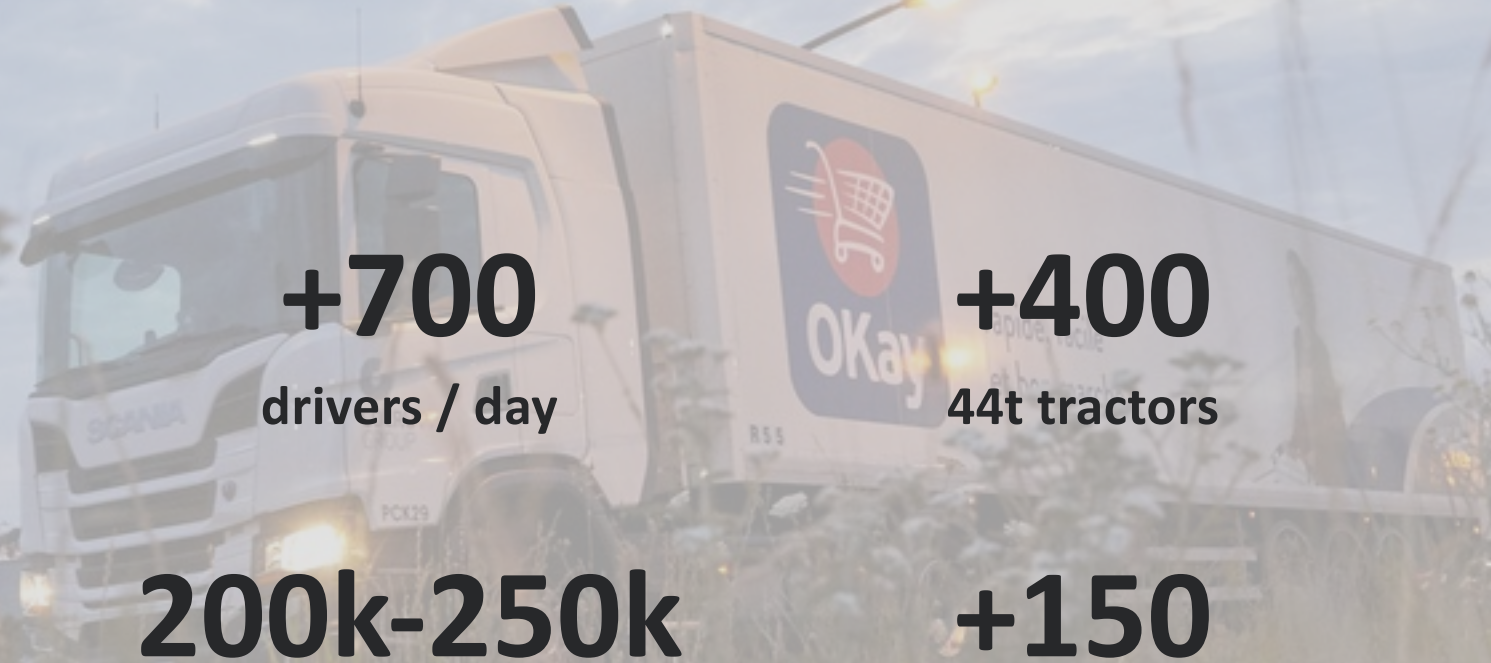
rides / day

200k-250k

km / day

+150

rigids



Our ambitions



[Home](#) > [Sustainable entrepreneurship](#) > [Our sustainable initiatives](#) > [Zero emission transport...](#)

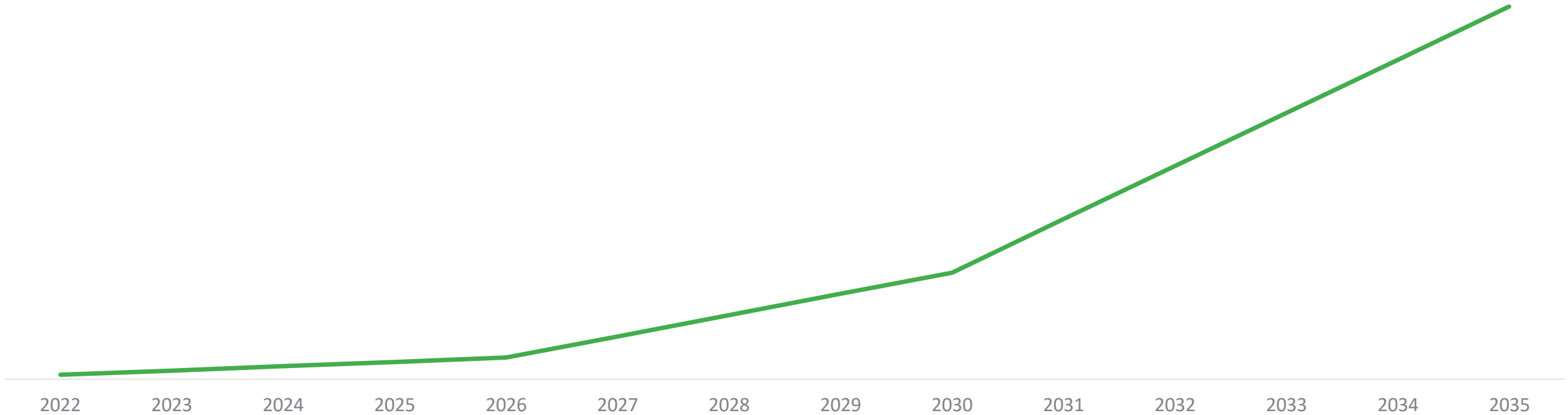


Zero emission transport for goods

We are making our freight transport ever more sustainable. By 2035, all the freight transport carried out by and for Colruyt Group will be zero-emission across the entire value chain. With zero emission transport, we want to reduce our emission of greenhouse gasses in the field of freight transport to zero.

Zero-emission transport targets

Practical application



2022

Start testing

2026

Start
Industrialisation

2030

Internal fleet
zero emission

2035

Colruyt Group transport
zero emission

The first step... Testing in 2023



1 vehicle
44 Ton BEV



1 vehicle
BEV ETT



5 vehicles
10 Pallet BEV
refrigerated



2 vehicles
Delivery Vans

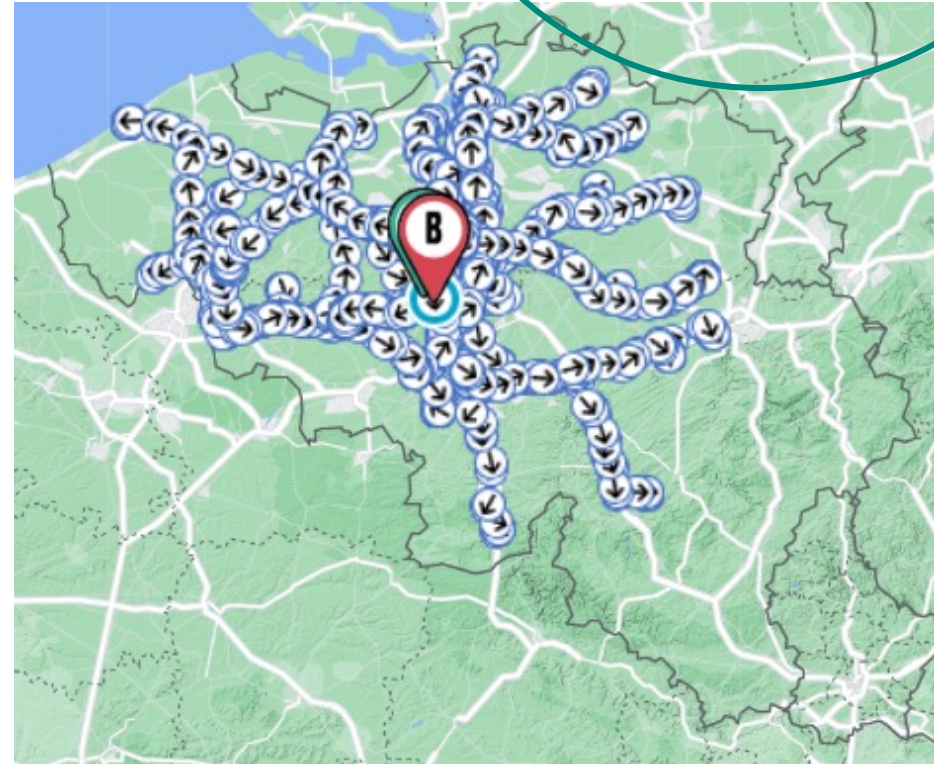
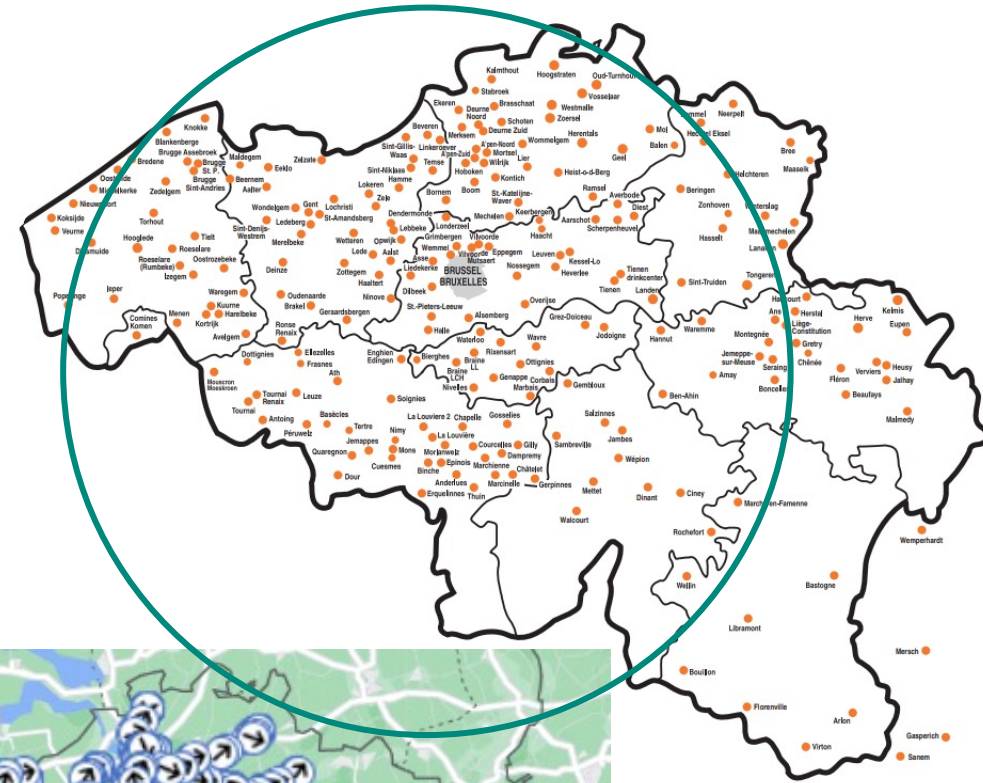


1 Vehicle
(44T) FCEV



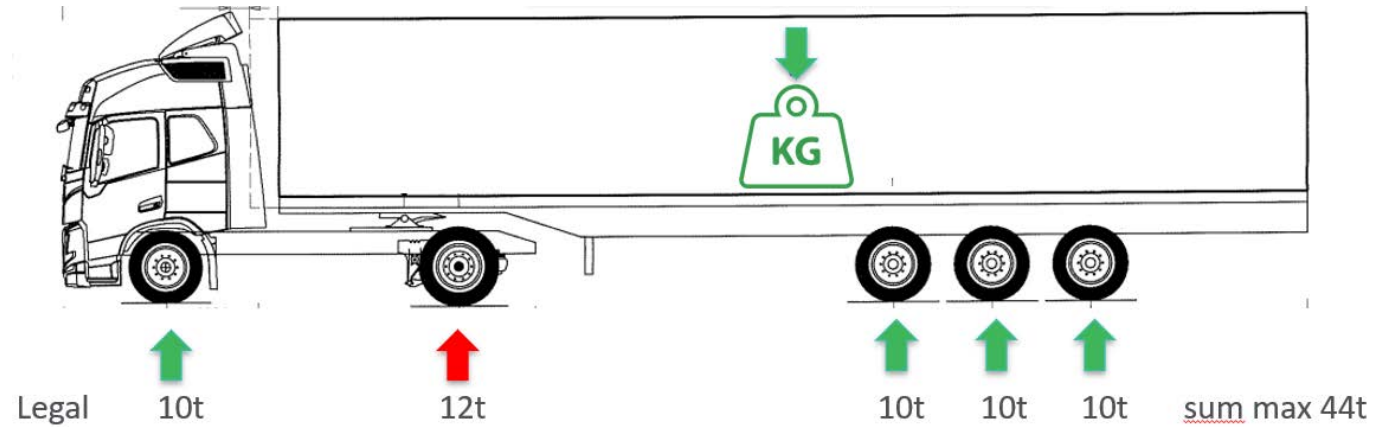
Testing in 2023 – 44T Range

- Range capacity enough for about 90% of our stores
 - From Oostende to Liege
- Technology will only improve the next years



Testing in 2023 – 44T

Payload and Axle Load



Problems :

- Payload : Batteries / Fuel Cell are +- 3t heavier
- Axle load : the extra weight of the tractors will have a real impact on overloading the tractor axle + towing vehicle.

Solutions :

- Payload :
 - Improvement of the technology
 - Increase of the regulations regarding maximum mass
- Axle load :
 - Change loading order to equilibrate the weight
 - 6x2 trucks (but have dimensions problems)



The next steps – testing for 2024



1 vehicle (44T)
BEV extra



1 vehicle (44T)
6x2 TBD



1 vehicle (18T)
BEV



10 vehicles (10T)
BEV Refrigerated



2 vehicles (44T)
FCEV



6 vehicles
BEV ETT



1 vehicle (27T)
BEV Refrigerated



7 electric
delivery vans



Charging and refueling infrastructure

Charging :

- MCS (Megawatt Charging Standard) charging building of 6 x 1MWh charging capacity
- First is planned to be operational in 2026



Refueling :

- H2 refueling station at 700 bar
- Should be operational in 2026



Energy

We are resolutely opting for **renewable energy**. We use **only 100% green electricity**. We produce large quantities of renewable energy. And we are even distributors.

Our investments ...



Solar installations



Wind farms on land
(via Virya Energy)



Production of green hydrogen



Testing hydrogen trucks



Construction of hydrogen stations



Suppliers

Daily deliveries of Nestlé to Colruyt Group with an electric truck.





Thank you!

PDB49


COLRUYT
GROUP

 COLRUYT GROUP



SELECT -Electrified logistics – Demand for new services

2024-05-29

Lennart Olsson

Circle K

Section heading to go here.



The target is moving up, already 1000 Ultrafast charge points 2026 for light traffic

We:

- Continuously develop our stations, so that your charging break is still worth the stop
- At least 4-6 charging points per station for high availability, pull-thru when possible
- Build ultra-fast chargers with at least 400 kW (50-150 kW replaced)
- Maintain a high roll-out rate of new charging points
- Continuously develop and simplify our charging services



Charging for Heavy Traffic



15 stations in operation, 56 charge points



7 stations will gradually open from now to September 2024, +28 charge points



13 stations will gradually open from now to September 2025, +26 charge points

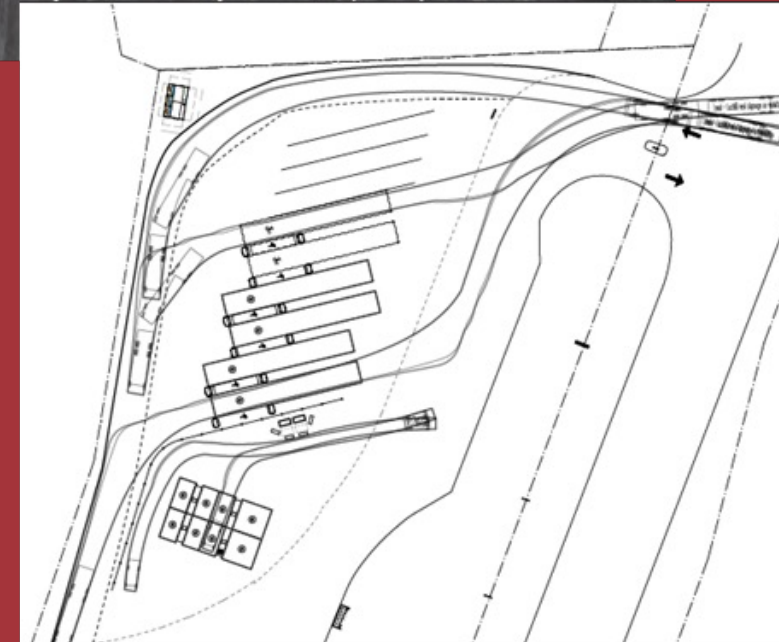


We build additional Truck chargers at large Truck stops and full-service stations with good potential. 1 opens in June 4 is under construction/planning



Availability is the key

- We build 4-6 charging spots per station
- Highest possible effect
- We build exclusively on surfaces adapted for trucks
- Two-way traffic, stationary charger 400 kW
- One-way traffic, distributed system with satellite on driver side 400 kW



Vädermotet

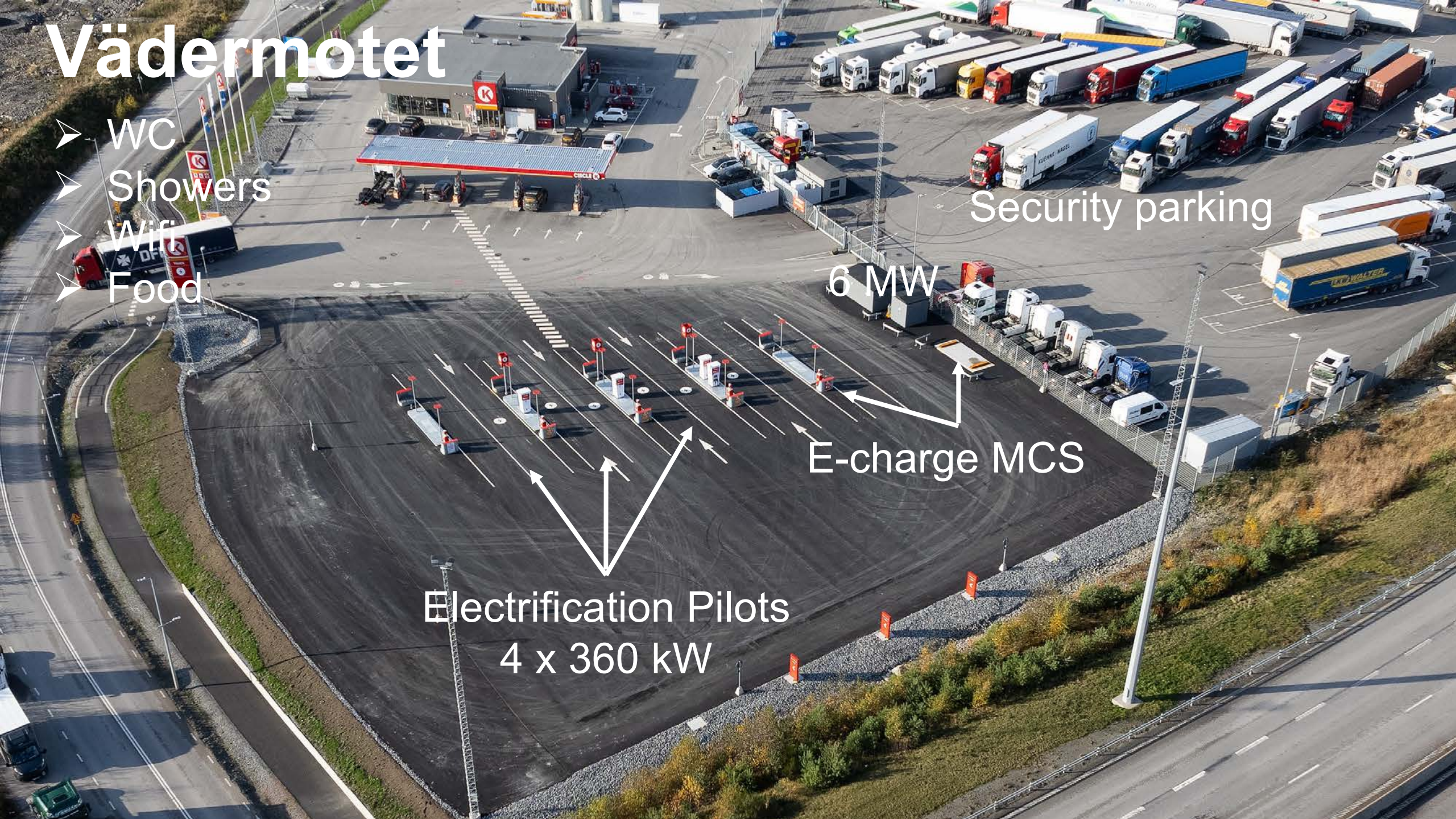
- WC
- Showers
- Wifi
- Food

Security parking

6 MW

E-charge MCS

Electrification Pilots
4 x 360 kW



Circle K Vädermotet Trucks



Halvorsäng 20, Göteborg • 403,8km

CIRCLE K



2/8 · 360 kW



Laddare 3

⚡ Används



46%



Laddare 4

⚡ Används



Laddare 5

⚡ Används



94%



Laddare 6

⚡ Används



59%



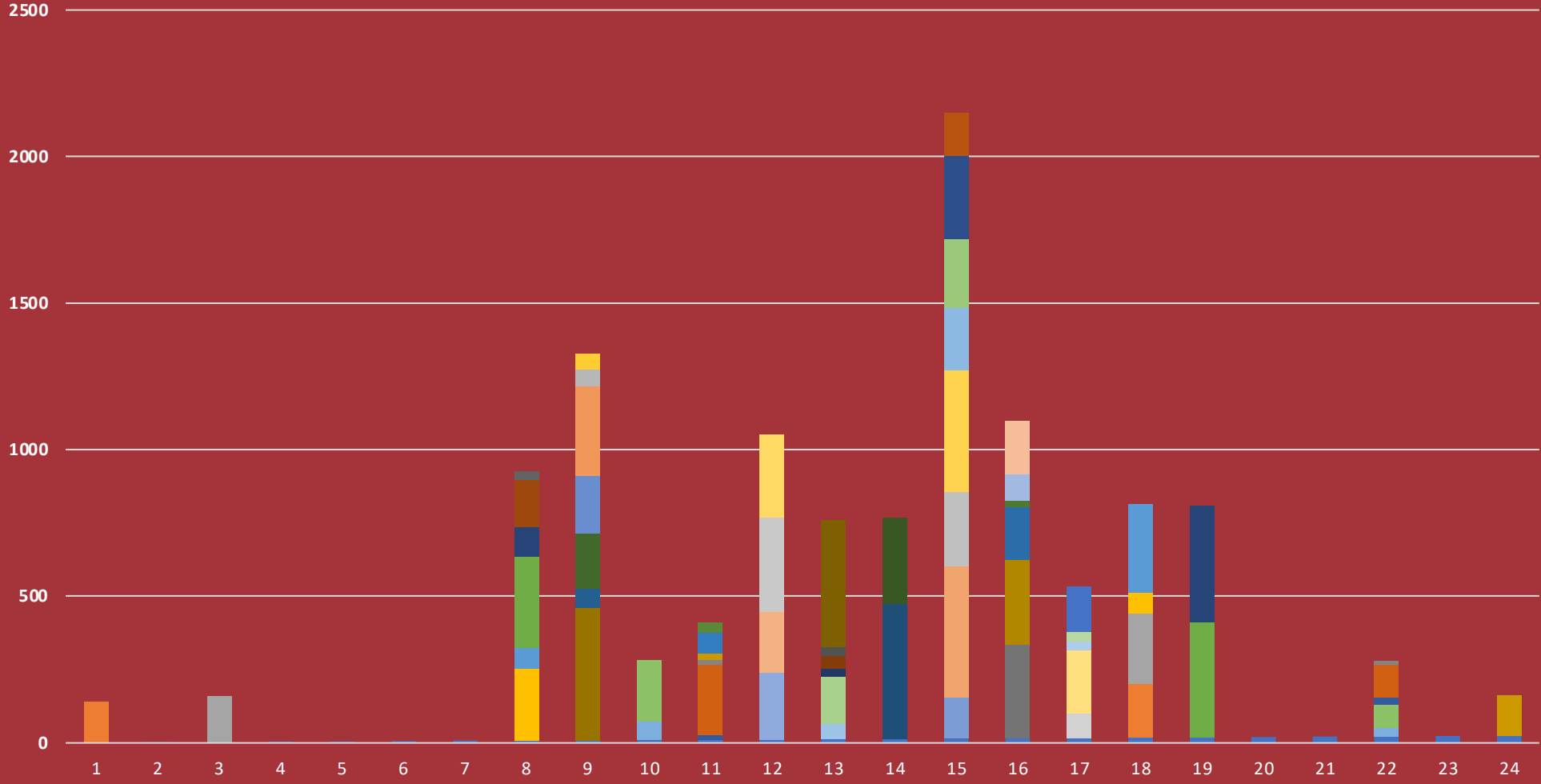
Laddare 7

⚡ Används

A busy day in January



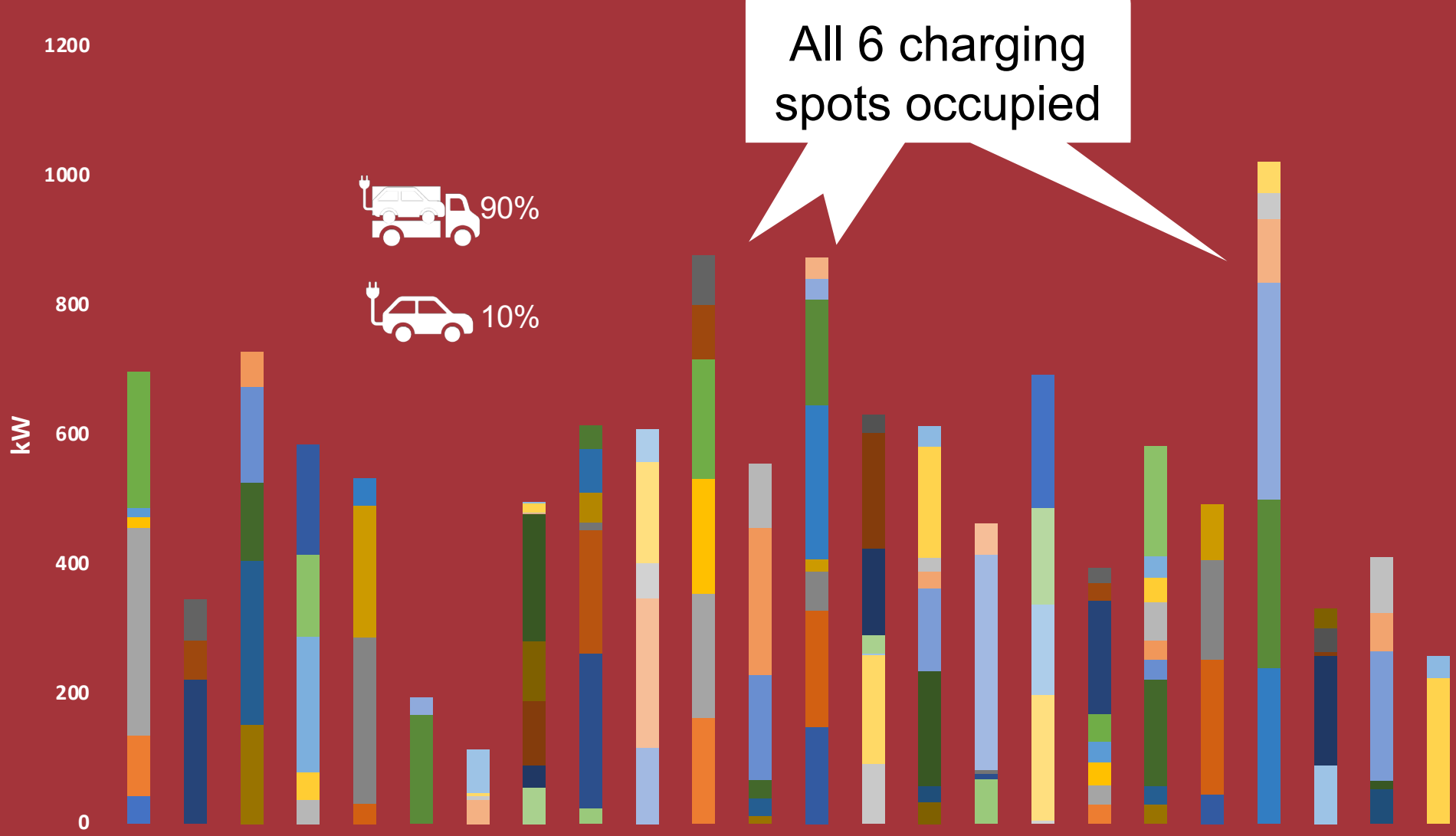
One day in January at Vädermotet, +12 m³ diesel



The colors represent a unique fueling session, a total of 66 trucks



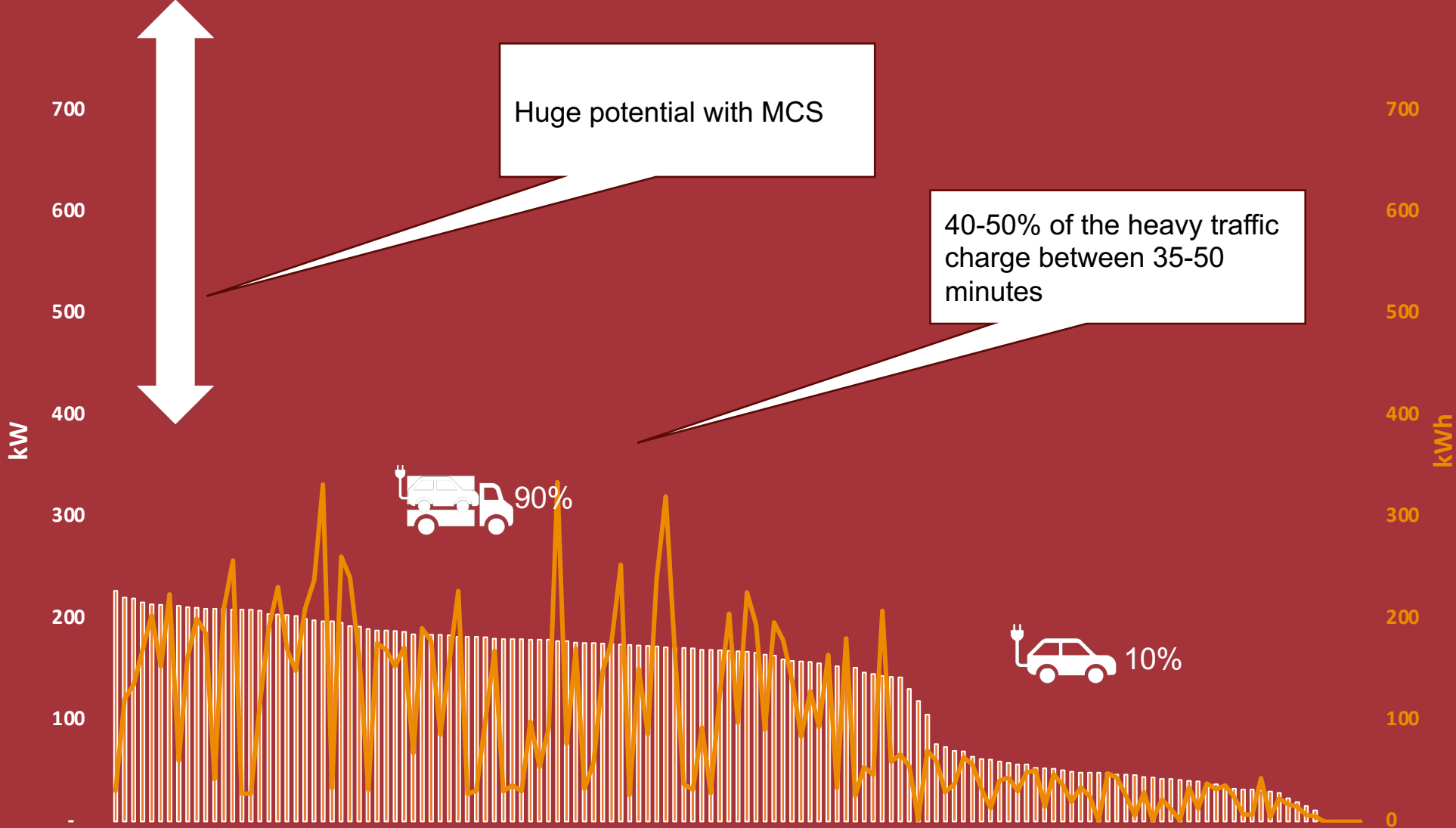
One day in January at Vädermotet, +13 000 kWh



The colors represent a unique charging session, a total of 134 of which 91 trucks



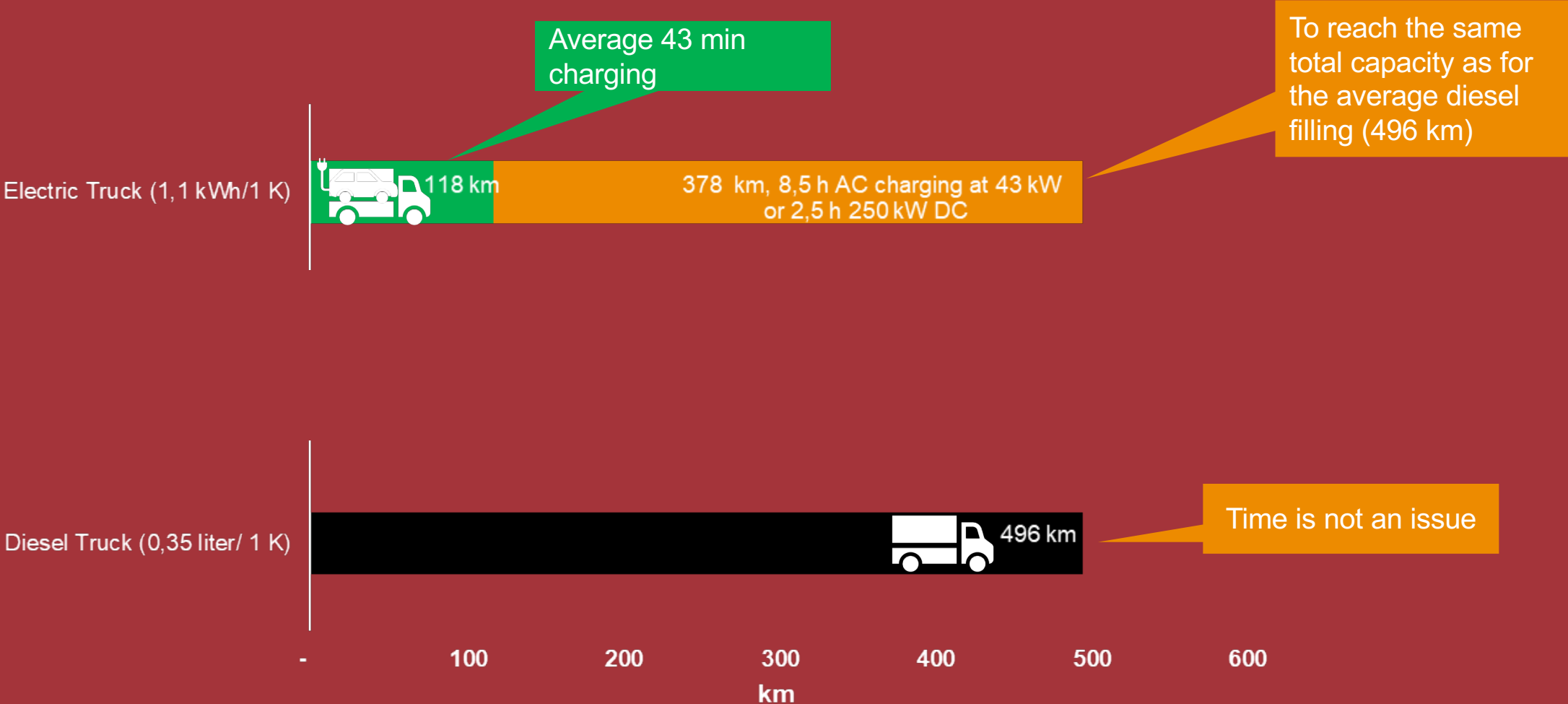
Same day in January at Vädermotet, +13 000 kWh



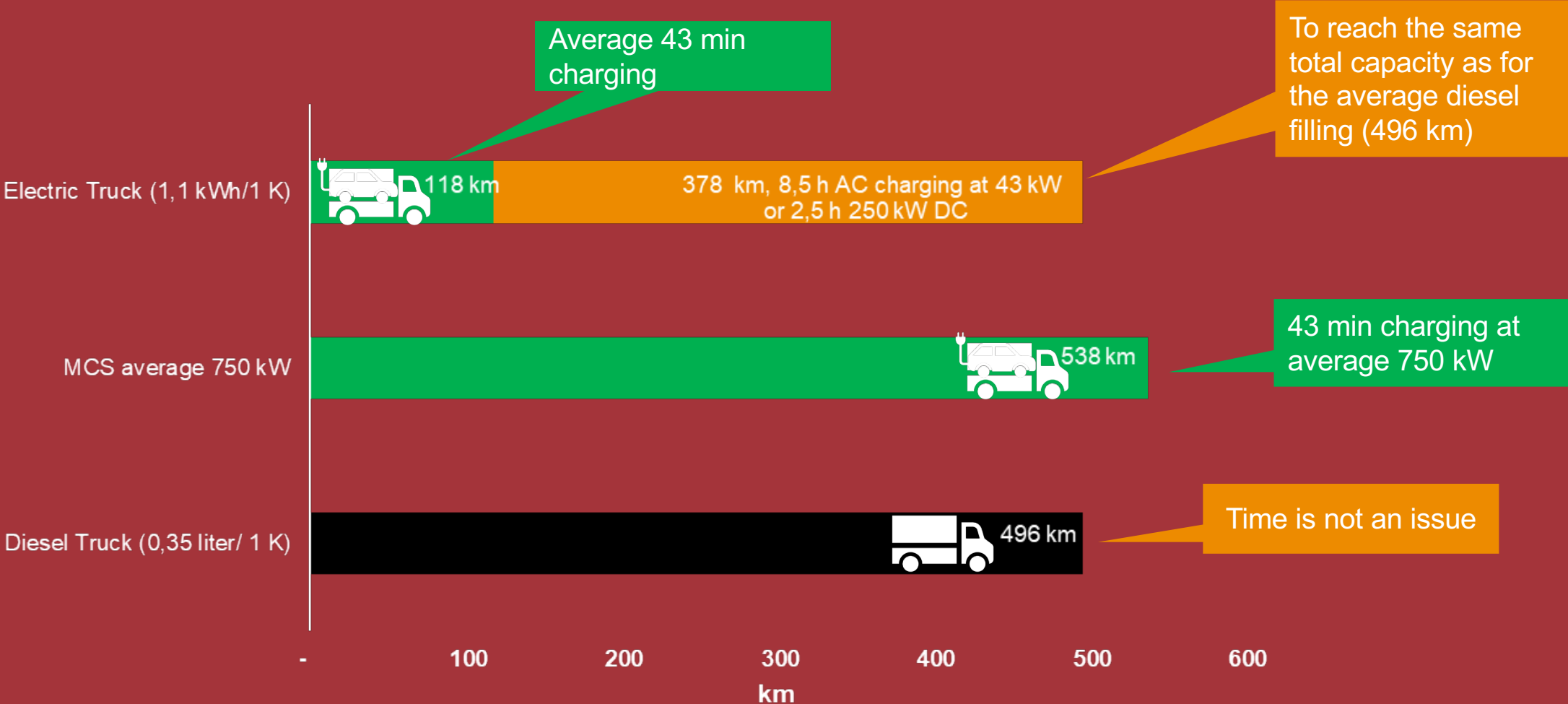
A total of 134 unique charging sessions of which 91 trucks



Same day, Truckdiesel vs Electricity total – average refueled/charged capacity



Same day, Truckdiesel vs Electricity total – average refueled/charged capacity



Lessons from this winter

- Grow to increase availability and redundancy

- Currently we add 3 HYC 400 chargers and 1 MCS (E-charge project)
 - Total capacity
 - 4x360 kw
 - 3x400 kw
 - 1 MCS 1000 kw
 - 3,64 MW
- Prepared for another 3x400 kw, 1 MCS and overnight charging at security parking

