

MCS LIVE:

The next phase in Megawatt Charging

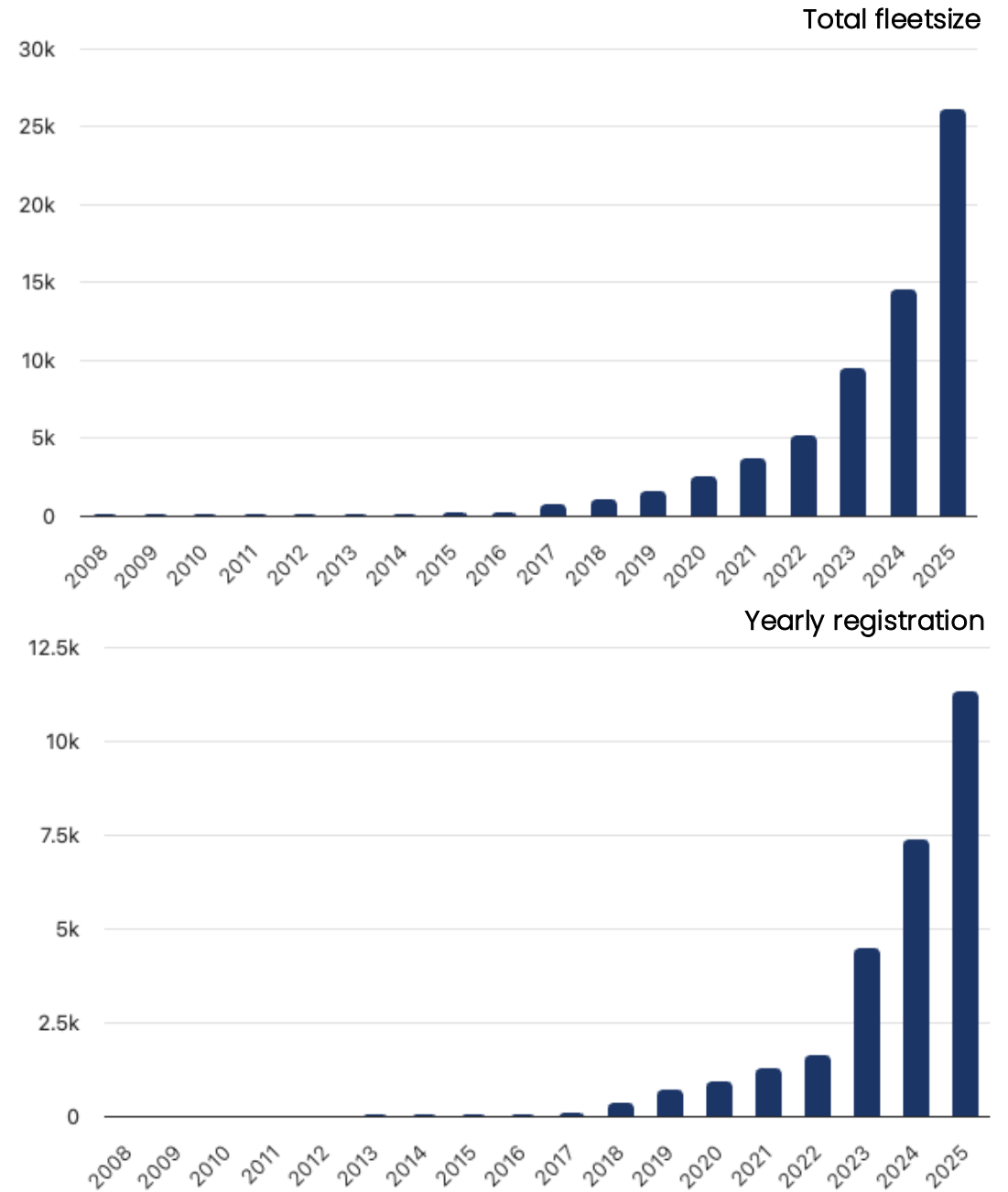




Tom Stragier
Sales Partner Manager Belgium

Number of BEV-trucks in Europe is growing

SOURCE: European Alternative Fuels Observatory



We are no longer in the early stage of electrification

PHASE 1



Electrification of **local and regional** trips

PHASE 2



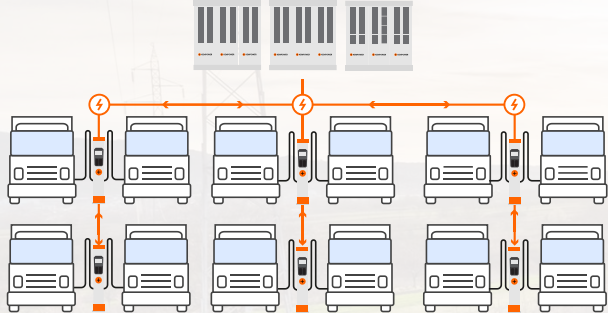
Electrification of **medium-haul** trips

PHASE 3



Electrification of **long-haul** trips

When and where will you charge?



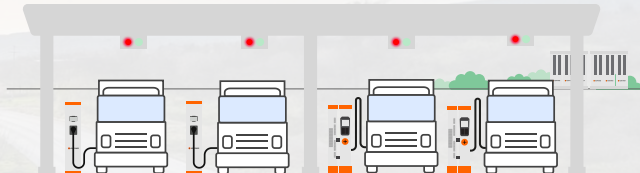
6-8h 50-100 kW CCS*

OVERNIGHT
Depots, truck stops



30min-2h tot 400 kW CCS*

DESTINATION
Warehouses, distribution

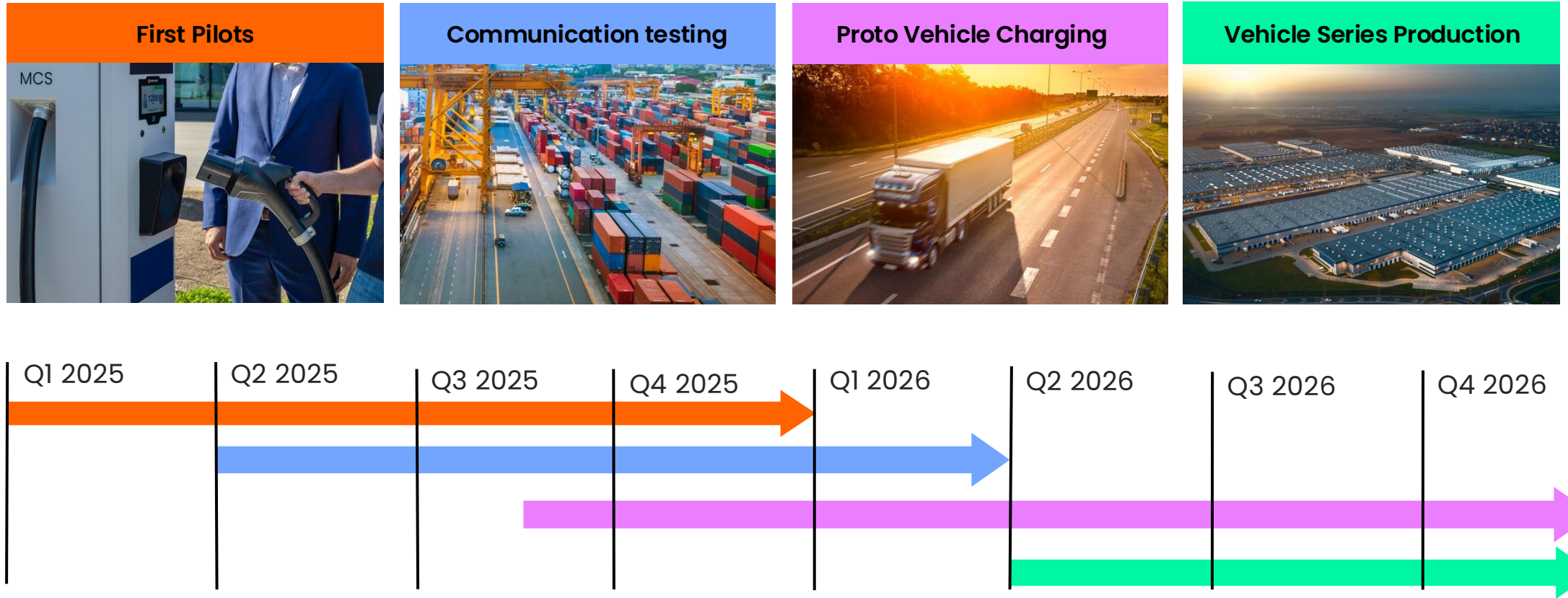


45min 400-1200 kW CCS & MCS

ON-THE-MOVE
Urban nodes, Highways



MCS Rollout Timelines



Estimated timelines by Kempower. Not confirmed with 3rd parties.



What's driving MCS?

- ▶ Long-Haul electrification
- ▶ Standardization
- ▶ North America
- ▶ Electrification of new segments





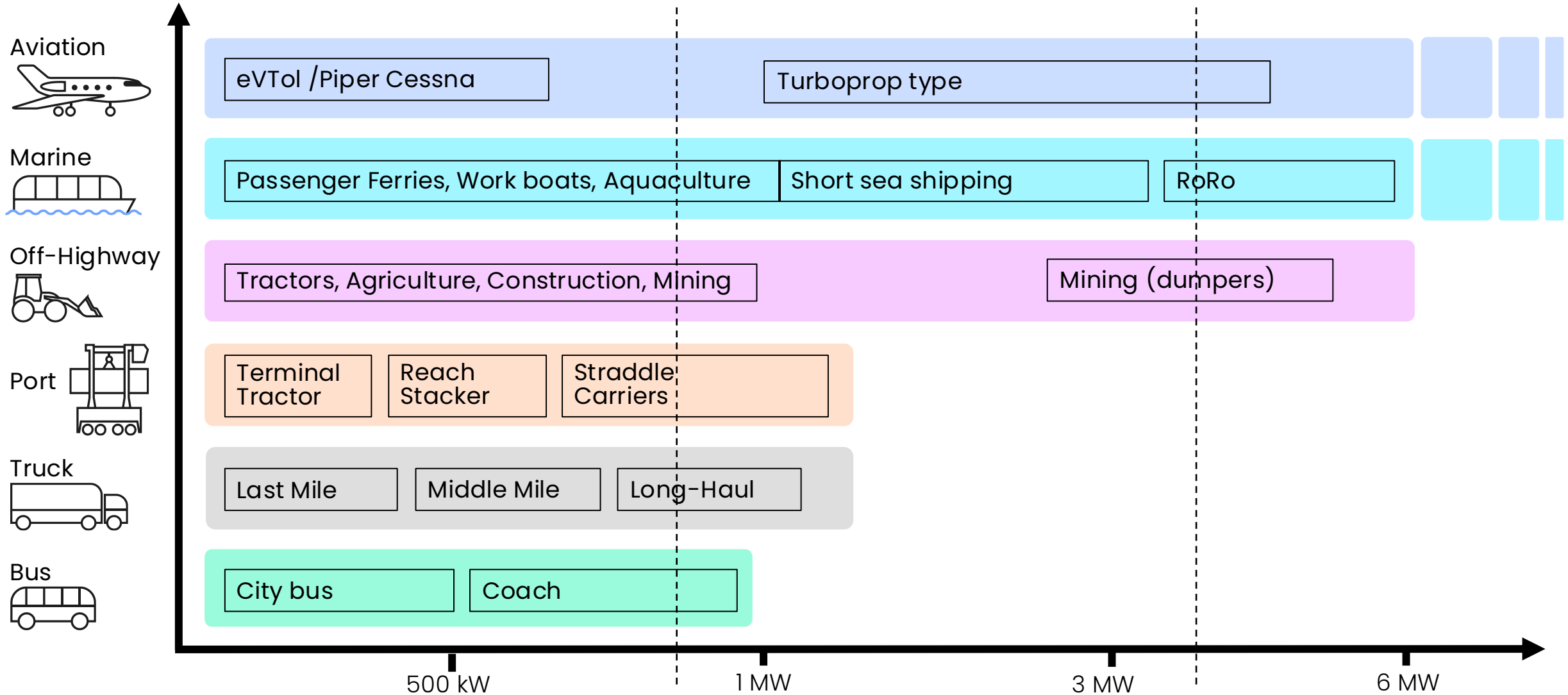
MCS Challenges

- ▶ Grid Capacity Limitations
- ▶ Complex & Slow Permitting
- ▶ Site & infrastructure readiness
- ▶ High upfront investment
- ▶ Ecosystem dependency (OEMs, Grid, Operators)





New Segments, New Power Needs





Vehicle OEMs are on-board

By 2030, EU truck OEMs must meet a **45% CO2 emission reduction** target (vs. 2019 levels) for heavy-duty vehicles (HDVs)

TRATON

- ▶ Scania: available for order **early 2026**
- ▶ MAN: Series production expected in **Q2 2026**



- ▶ FH Aero set to launch in **Q2 2026**

DAIMLER TRUCK

- ▶ Eactros 600 expected to be equipped with MCS in **2026**



- ▶ Series production confirmed for **2026**



- ▶ MCS vehicle available **Q1 2026**



Kempower's journey

2024
April

MCS Launch



2024
December

1st delivered MCSs



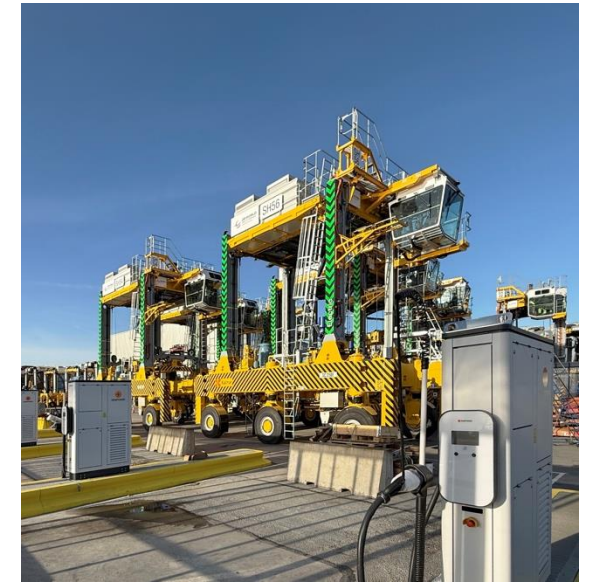
2025
August

Alfredsson, Sweden



2025
December

1st port site – DP world





MCS is now reality

ALFREDSSON, SWEDEN



Total power: **2400 kW**



Total power: **2400kW**

- ▶ MCS Outputs: **1**
- ▶ CCS Outputs: **11**

DANSKE FRAGTMÆND, DENMARK



Total power: **1200 kW**



Total power: **1200kW**

- ▶ MCS Outputs: **1**
- ▶ CCS Outputs: **3**

ASKO, NORWAY



Total power: **2400 kW**



Total power: **2400kW**

- ▶ MCS Outputs: **2**
- ▶ CCS Outputs: **4**

CIRCLE K, SWEDEN



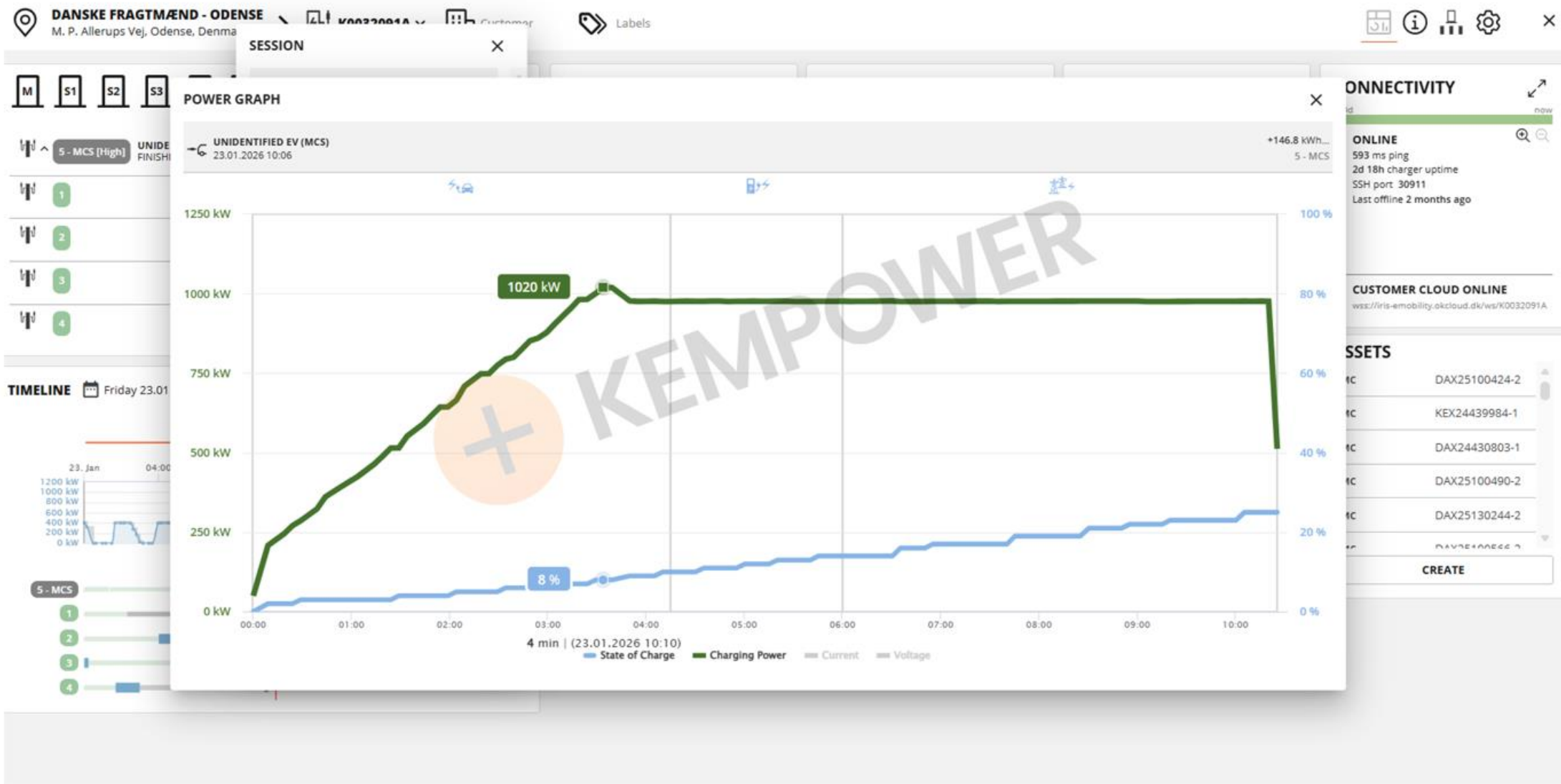
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- ▶ MCS Outputs: **1**

1020kW op MCS





Europe & NAM **biggest** MCS site DP World London Gateway

12 x Kalmar Straddle Carrier
charged by

12 Kempower MCS chargers

Total installed site power – 11 MW
8 x CCS Liquid Cooled
12 x MCS





Kempower
and Kalmar partner to
**electrify material
handling and logistics**
focusing on port
segment globally.





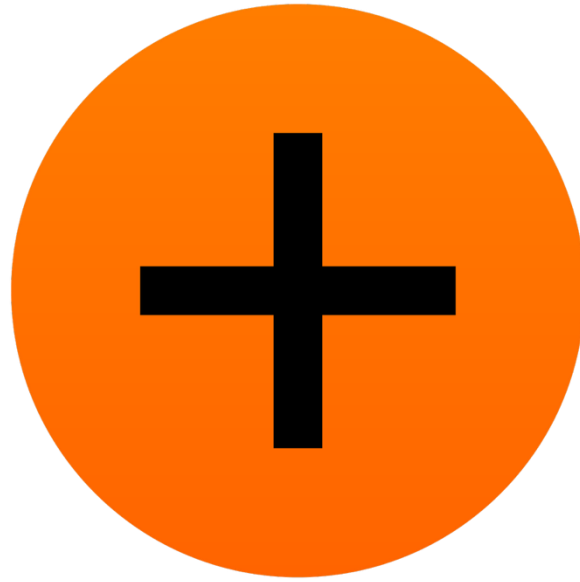
Summary

- ▶ MCS is here and it's here to stay
- ▶ We have moved from concepts to reality
- ▶ Trucks are just the beginning – other Segments are quickly adopting MCS
- ▶ The vehicle OEMs are on-board
- ▶ Ultra-high system flexibility is needed to help the technology transition





Q&A



Thank You.

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