

CLEAN POWER THAT MEANS BUSINESS

JUNIOR VAN REMORTELE - SALES DIRECTOR BIG TRUCKS, EMEA





Transforming the way the world moves materials from port to home



WE'RE Global....

- 19 Facilities
- 12 Production Sites

1,000,000 TRUCKS BUILT IN THE LAST 10 YEARS

WE'RE LOCAL...

HYSTER

520

To

 Manufacturing in the UK, Netherlands, and Italy

EVEN MORE LOCAL



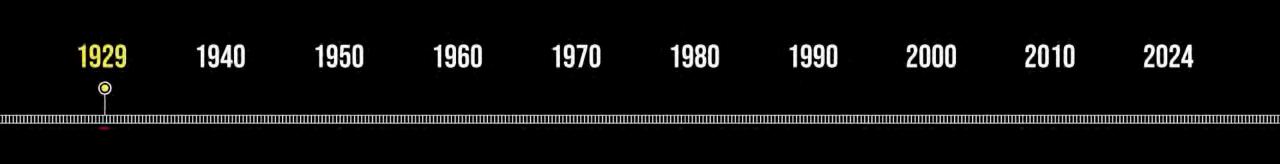
OUR DEALER NETWORK Works for you

Global strength, local support









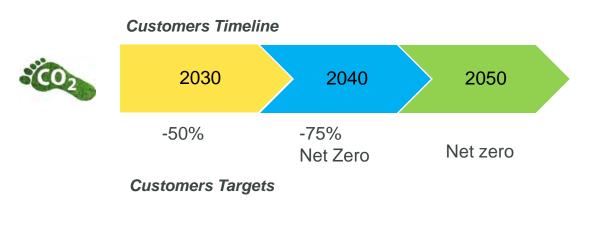


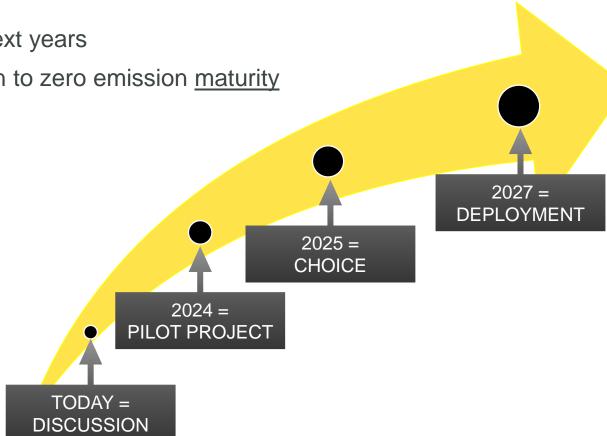
Hyster's <u>commitment</u> to integrate <u>clean energy</u> <u>technologies</u> into our products and customer operations, aligning with the growing goals and commitments towards sustainability.

DECARBONIZATION JOURNEY HAS STARTED...

MANY PORT OPERATORS HAVE SET THEIR TARGETS

- Target equals massive equipment demand over the next years
- Port Equipment manufacturers to prepare for transition to zero emission <u>maturity</u> and related <u>volume</u>
- Efforts started already today





HYSTER PORT EQUIPMENT





OPERATIONAL PROJECTS



Hydrogen Fuel Cell Reachstacker

MSC Terminal Valencia

Valencia, Spain



Hydrogen Fuel Cell Toploader

CMA CGM Fenix Marine Services

Long Beach, USA



Battery Electric 10-18t Forklift

Various sites

Below: LBCT, Long Beach, USA



2024 DEPLOYMENT







2024 the deployment of 2 Hydrogen fuel cell machines in Hamburg (Nuvera fuel cell)



Clean Port Part of Clean port & logistics cluster to & Logistics accelerate maturity and integration into regular ports operations







LESSONS LEARNED OVER THE LAST 18 MONTHS

Fuel Cell Helps completing Shift

 When a continuous operation is required

Battery Powered for mild applications

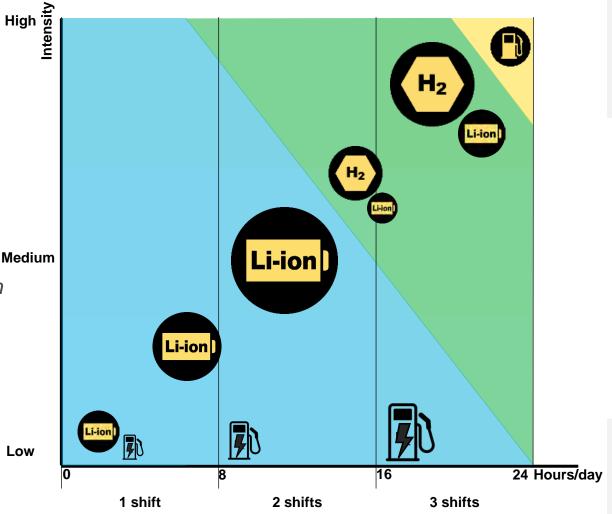
 Modular setup Battery pack Medium matches with the application

Low

• Charger size to fit the application

Battery & Charger Size Modularity

To determine the best fit with the application





Diesel for extreme applications

- Additional Truck when possible
- Backup for peak days
- Remote Applications

Fuel Cell Powered for tough applications

- Hydrogen and Fuel Cell power the truck
- Battery pack flattens the peaks in power demand

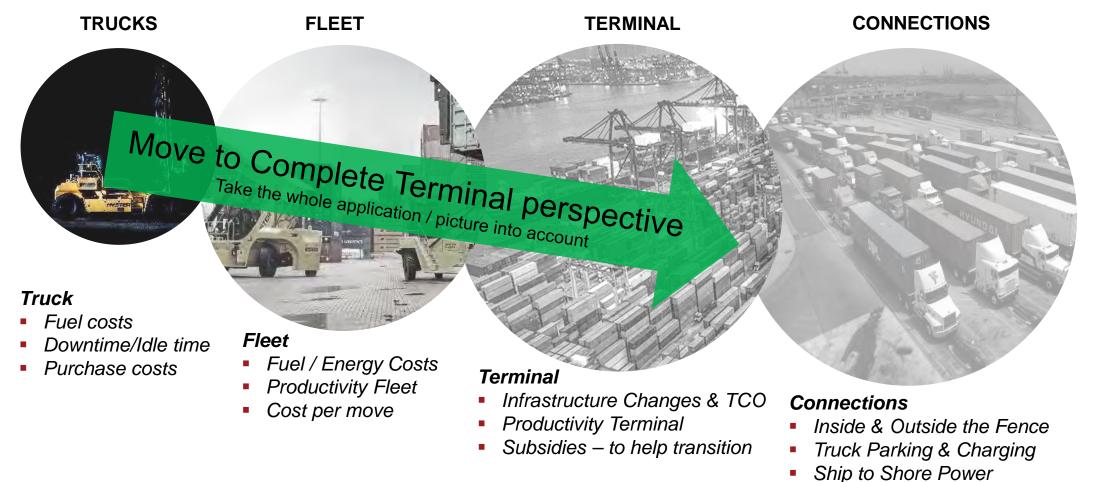
Battery & Fuel Cell Possible

- Battery with a large charger, since charging time is limited
- Hydrogen when preferred e.g. supply already available at the location

BROADER PERSPECTIVE THAN JUST THE TRUCK



ELECTRIFICATION CHALLENGES:



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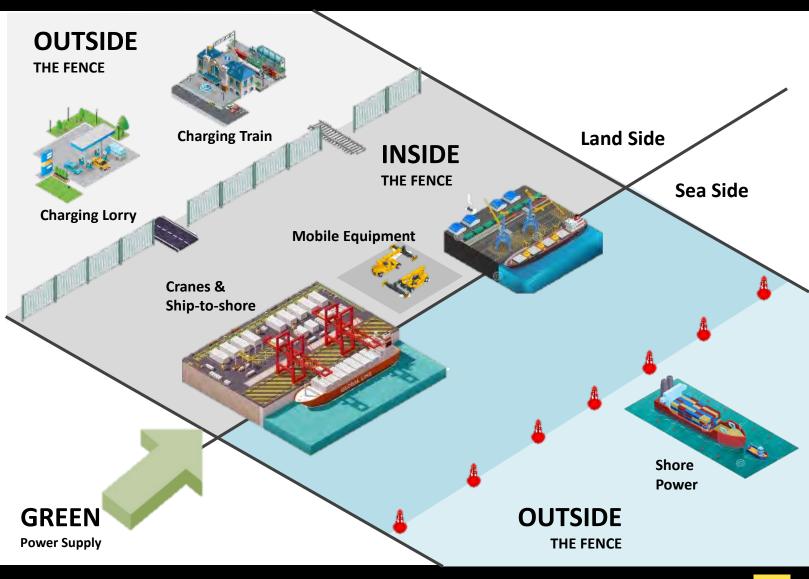
TERMINAL RESPONSIBILITY?



Green power supply needed for:

> Inside the fence (mobile) equipment, Workshop area, shipto-shore

 Outside the fence Charging station, H₂ station, local industry, Shore Power



OPERATIONAL IMPACT ON TECHNOLOGY CHOICE





WHAT IS YOUR SOLUTION?

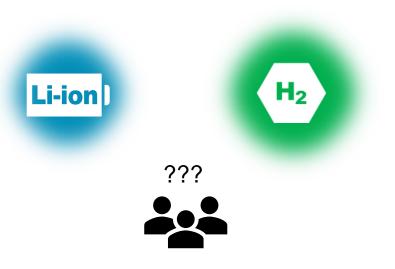
There is no one-size-fits-all for the transition

- Today's solution might not be your ultimate solution
 - Current available solutions vs long term available solutions
 - One unit vs complete fleet
 - Regional aspects

- To choose wisely, Hyster facilitates joint learning programs
 - Hyster Learner Program enables you to learn on the technology together with us.

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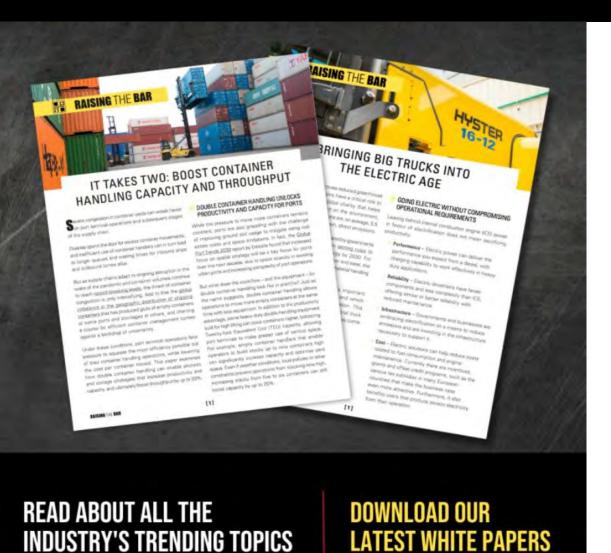






THANK YOU & CONTACT US





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