

APM Terminals and DP World spearhead roadmap for accelerating electrification of port operations in bid for net-zero

- APM Terminals and DP World provide port industry stakeholders with a clear roadmap for electrifying port operations within 2-8 years, through conclusive research into battery-electric container handling equipment (CHE).
- The roadmap is a first step in mobilising industry partners to accelerate the electrification of port operations in the race to reaching net-zero greenhouse gas emissions in the industry

The Hague – The Netherlands and Dubai, United Arab Emirates, 26 October 2023. APM Terminals and DP World today announce an initiative to accelerate decarbonisation of the world's terminals through the widespread electrification of container handling equipment (CHE). The initiative is grounded in research showing the tipping point for battery-electric CHE can be reached within the next 2-8 years with the right actions from industry stakeholders.

The research findings and roadmap for electrification of CHE are the subject of an industry White Paper, currently endorsed by Eurogate, Port of Kalundborg, and Smart Freight Centre.

CHE is a critical enabler of port operations and is used to move containers on and off ships across the world's 940 container ports¹. In 2020, the global fleet of CHE enabled the transportation of 815 million TEUs², with a total value of USD 8.1 trillion³. Estimated at 100,000-120,000 units, the global CHE fleet is responsible for 10-15 million tonnes of carbon dioxide per annum (scope 1 and scope 2).

Research has found that the challenges hampering the uptake of battery-electric CHE can be mostly overcome. An inflection point for battery-electric CHE to replace diesel CHE as the more affordable, attractive and accessible option can occur in the next 2-8 years, provided that industry stakeholders take action now. The White Paper identifies key levers and related actions that can be taken by the players across the value chain including terminal operators, OEM's, port authorities, affiliated government entities and shipping line operators.

"Let me be clear: we need to accelerate our work in decarbonisation, and we need to do it now. I am happy to say the research we conducted through Systemiq and ZEnMo strongly backs that a tipping point for the electrification for [CHE] is within reach in this decade. We are now calling for action for the entire port ecosystem to accelerate towards this milestone. It is important for us to stand together, take concrete action with several industry partners for this to happen", says Keith Svendsen, CEO of APM Terminals.

"Battery-electric equipment in ports is a realistic, achievable and affordable way to dramatically reduce carbon emissions. Throughout my career I've seen many industry players talk about various methods for achieving net-zero, but I've never been so convinced by one tactic's ability to accelerate decarbonisation. It is my sincere hope that the findings in the White Paper can be used by the entire industry to galvanise real change with electric CHEs", says Tiemen Meester, COO of Ports & Terminals, DP World.

The research mentioned provides for a number of actions that can be taken to reach a tipping point, including making zero-emission operation a requirement as part of new concessions in ports, and terminal

¹ Source: UNCTAD (2020), Ports in the global liner shipping network: Understanding their position, connectivity, and changes over time, [Link](#)

² Source: UNCTAD (2021), Review of Maritime Transport, [Link](#)

³ Source: Port Economics, Management and Policy (2020), Value of Containerized Trade, [Link](#)

operators and equipment manufacturers working together to scale up demand. Furthermore, suppliers can work on further developing their supply chains and standardising certain components, with the support of terminal operators.

“Essentially, what we want is to provide a healthier, cleaner, and more efficient workplace for the thousands working at the terminals and living in the communities around them. And while electrification of the container handling equipment is one piece of the puzzle, we believe it is one piece that can be addressed relatively easier and faster than others if we work together and avoid unnecessary complexity”, says Sahar Rashidbeigi, Global Head of Decarbonisation at APM Terminals.

APM Terminals and DP World encourage industry peers to review the research and support its goals. As a next step, the partners are preparing to mobilise industry-wide collaboration around CHE electrification and zero-emission port operations.

About APM Terminals

APM Terminals develops and operates advanced container terminals around the world and has been doing so for more than a half century. The company has facilities in 64 key locations in 38 countries around the globe – with several in development. As an independent division in A.P. Moller-Maersk, APM Terminals employ approximately 22,000 people, and in 2022, there were 30,000 vessel calls in the terminals.

APM Terminals has made an industry-leading commitment to be fully net-zero in 2040 and to reduce total emissions by 70 per cent by 2030 compared to 2020. Find more on the APM Terminals decarbonisation efforts [here](#).

About DP World

Trade is the lifeblood of the global economy, creating opportunities and improving the quality of life for millions of people around the world. DP World is here to make trade flow better, changing what’s possible for the customers and communities we serve globally. With more than 106,500 employees across 73 countries, we are pushing trade further and faster towards a seamless supply chain that’s fit for the future. By integrating our physical infrastructure with cutting-edge technology, we create efficient end-to-end solutions, pushing the sector towards better ways to trade, minimising disruptions from the factory floor to the customer’s door. Find out more about DP World’s decarbonisation strategy [here](#).

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