

CSCRL FALL FORUM

INNOVATING FOR THE FUTURE: THE ROLE OF TECHNOLOGY IN THE
SUPPLY CHAIN
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ABSTRACT

PREPARING THE WORLD FOR ZERO-EMISSION HYDROGEN TRUCKS

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Hydrogen is not just the fuel of the future; it is the fuel of today. If we are truly to build a cleaner, more sustainable world, hydrogen must play a key role. Not everything can be electrified, and a range of technologies will be needed. As the world's leading hydrogen supplier, Air Products has taken major steps to accelerate the energy transition.

To ensure a ready supply of clean hydrogen, Air Products has made an industry-leading commitment of at least \$15 billion to build clean hydrogen megaprojects in key locations around the world. These projects will result in an additional 3,600 metric tons per day of clean hydrogen over the next five years starting in 2024, enough hydrogen to power up to 120,000 zero-emission trucks each day.

On the infrastructure side, building reliable hydrogen refueling stations backed by a robust supply chain is critical for commercial fleets to meet their climate and decarbonization goals and will result in a faster switch to low- or zero-carbon energy. Air Products has expanded its station product to a multi-modal hydrogen station offering capable of fueling both heavy duty and light duty vehicles at scale.

Furthermore, Air Products is leading by example by transitioning its own fleet of more than 2,000 trucks to hydrogen and is in the process of testing trucks and collecting data on the use of these zero-emission vehicles.

This presentation will cover:

- Deployment of commercial-scale clean hydrogen projects and why the success of these projects is critical for fleet and facility resiliency
- What the fueling infrastructure will look like at scale and what Air Products is doing about it
- How commercial fleets can scale to zero-emissions through vehicle purchases at their own pace without having to take risk in the fueling infrastructure
- Items a fleet operator needs to consider when transitioning their fleet to hydrogen as well as how to develop a deployment plan for fleet conversion based on our experience transitioning our own fleet to hydrogen

