Fact Sheet

Grant-Funded Zero-Emission Demonstration Projects

Port of LONG BEACH
The Green Port

Overview

The 2017 Clean Air Action Plan Update set the Port of Long Beach on the path to zero-emission goods movement, with a goal of transitioning terminal equipment to zero emissions by 2030 and on-road trucks by 2035.

The Port has recently received nearly $80 million in total grant funding from the California Energy Commission and the California Air Resources Board to move ahead with six projects to demonstrate zero emissions equipment and advanced energy systems in Port operations.

Grant Programs

Zero-Emissions Terminal Equipment Transition:

- The California Energy Commission awarded a $9.7 million grant toward the expected $13.7 million total cost of this project, one of the nation's largest demonstration and deployment for zero-emissions cargo-handling equipment. The project will be undertaken at Piers G, J, and F and includes nine electric rubber-tire gantry cranes, 12 yard tractors, and four hybrid and electric drayage trucks, as well as workforce development training programs.

Sustainable Terminals Accelerating Regional Transformation Project (START):

- The California Air Resources Board awarded a $50 million grant for a transformative demonstration of a near-zero and zero-emissions supply chain. The larger START project includes the ports of Oakland and Stockton and more than 100 pieces of zero-emission terminal equipment. At the Port of Long Beach's Matson Navigation Co. Pier C terminal, the project will fund 34 pieces of zero emission cargo-handling equipment, two of the cleanest container ships to call on the West Coast, an electric-drive tugboat, five electric trucks at an off-dock container yard, and two heavy-duty truck charging outlets.

Port Advanced Vehicle Electrification (PAVE):

- The Port Advanced Vehicle Electrification Project will design, install and deploy electrical charging infrastructure, including electrical conduit, wires, switchboards, transformers and switchgears, to support battery-electric yard tractors and forklifts at Total Terminals International's facility at Pier T. The California Energy Commission awarded $8 million for the $16.8 million project.

Microgrid — Resilience for Critical Facilities:

- A microgrid project at the Port of Long Beach's Joint Command and Control Center will allow the Port to learn about the design, installation and operation of microgrid systems. Microgrids — systems of on-site power generation, storage and controls that are capable of isolation from the grid — could protect electricity-reliant marine terminals against grid failures. The California Energy Commission awarded a $5 million grant for the $7 million project.

C-PORT Zero-Emissions Demonstration:

- The Port, in partnership with SSA Marine at Pier J and Long Beach Container Terminal at Pier E, will demonstrate five zero-emissions cargo handling vehicles, including three never-before-tested battery-electric top handlers and a head-to-head comparison of a hydrogen fuel truck and a battery-electric yard truck. The California Air Resources Board awarded a $5.3 million grant to fund the demonstration.

Port Community Electric Vehicle Blueprint:

- The Port is developing the first-ever Port Community Electric Vehicle Blueprint to identify the path toward zero emissions and to provide an economical, demonstrated approach to EV planning that other California seaports can replicate. The California Energy Commission awarded $200,000 to the Port to develop the blueprint.

Contact

To learn more about the grants, call the POLB Environmental Planning Division at 562-283-7100 or visit ***www.polb.com/zeroemissiongrants.***