

World's First Hybrid Tugboat to Get a Sibling Clean Air Grant for Port to Fund Retrofit of Foss Maritime Vessel

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Foss Maritime Company, builder and operator of the world's first hybrid tugboat, will soon add another pioneering vessel to its Southern California fleet with the help of an air quality grant obtained by the Port of Long Beach.



Building on the success of Foss' *Carolyn Dorothy* hybrid tug, which was launched into service at the Port of Long Beach in 2009, Foss will retrofit an existing tug with hybrid technology for service in San Pedro Bay, thanks to a \$1 million grant from the California Air Resources Board (CARB) to the Port. The project will be implemented through a partnership between Foss, the Port of Long Beach, and the Port of Los Angeles.

"The Foss /Aspin Kemp & Associates hybrid technology is already proving its worth on the *Carolyn Dorothy*," said Richard Cameron, Director of Environmental Planning at the Port of Long Beach. "When the Air Resources Board asked for proposals to retrofit existing vessels with cutting-edge hybrid technology, we knew we wanted to partner with Foss again.

"We believe the retrofit will be the next step in hybrid technology evolution."

Foss will retrofit the *Campbell Foss*, a conventional dolphin tug currently assisting oceangoing vessels in the San Pedro Bay. The boat will be retrofitted with motor generators, batteries, and control systems at Foss' shipyard in Rainier, Oregon.

The goal is to achieve significant reductions in pollution emissions while enhancing fuel efficiency and operational capabilities. Projected annual emissions reductions per year include:

- More than 1.7 tons of diesel particulate matter
- More than 53 tons of oxides of nitrogen
- More than 1.2 tons of reactive organic gases
- More than 1,340 tons of carbon dioxide

In addition, more than 100,000 gallons of diesel fuel will be saved each year.

Susan Hayman, Foss Maritime's Vice President of Environmental and Governmental

Affairs, said Foss has been looking forward to an opportunity to retrofit one of its existing tugs to work alongside the *Carolyn Dorothy* and plans to introduce more hybrid tugs in the years to come.

"At Foss, we have a 'zero trace' corporate goal and a commitment to give our customers the highest level of service," Hayman said. "Making use of cost-effective hybrid technology is an important part of our strategy as it allows us to use best-in-class, advanced technology to serve our customers and manage our expenses over the long term while safeguarding the environment at the same time. We have an unprecedented opportunity to transition harbor tugs around the world to vessels that deliver cleaner air and greater fuel efficiency.

"We're already doing it in San Pedro Bay and we're proud to continue our partnership with the Port of Long Beach."

The *Carolyn Dorothy* was introduced in the ports of Long Beach and Los Angeles in January 2009 as an innovative approach to reducing air pollution. The vessel is designed to retain the power and maneuverability of her conventional Dolphin class sister tugs, while dramatically reducing emissions, noise, and fuel consumption. The vessel was newly built as a hybrid, rather than retrofitted.

About Foss Maritime Company

Founded in 1889, Seattle-based Foss Maritime offers a complete range of maritime services and project management to customers across the Pacific Rim, Europe, South America, and around the globe. The company has harbor services and transportation operations in all major U.S. West Coast ports, including the Columbia and Snake River system. With one of the largest fleets of tugs and barges on the American West Coast, Foss operates two shipyards and offers worldwide marine transportation emphasizing safety, environmental responsibility, and high quality service. See www.foss.com for more information.

About Port of Long Beach

The Port of Long Beach is one of America's premier seaports and a trailblazer in goods movement and environmental stewardship. Trade valued annually at more than \$100 billion moves through Long Beach, which is the second busiest cargo container seaport in the United States. Go to www.polb.com.

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