ENERGY FOR EVERYONE®
propane

West Basin Container Terminal Cuts Costs & Emissions With Propane

MARINE TERMINAL OPERATOR LEADS THE WAY WITH CLEAN, RELIABLE PROPANE EQUIPMENT AT THE PORT OF LOS ANGELES

When West Basin Container Terminal (WBCT) began planning a major facility expansion more than 20 years ago, leadership faced a clear challenge: find an alternative to diesel that could meet strict regulatory requirements, reduce emissions, and remain reliable for nonstop port operations.

The answer was propane. Compared to liquefied and compressed natural gas, propane was safer and easier to receive, store, and dispense. And unlike electric, propane equipment could deliver full-duty performance without downtime for charging. WBCT became the first container terminal in the U.S. to power its entire yard tractor fleet with propane—proving that large-scale port operations can lower costs and emissions while maintaining full performance.

WEST BASIN CONTAINER TERMINAL AT-A-GLANCE

80
ultra-low NOx propane terminal tractors

34
propane terminal tractors

10
5-ton propane forklifts

3
on-site 3,200-gallon propane fuel trucks

575,461
gallons of propane used annually

Propane Powers WBCT's Competitive Edge

West Basin Container Terminal relies on propane to balance the demands of one of the nation's busiest ports. The results speak for themselves: millions in fuel savings, dramatic emissions reductions, diesel-level performance without the downtime of electric, and a proven commitment to cleaner operations that will carry into the future.

PROPANE TERMINAL TRACTOR HIGHLIGHTS

COST SAVINGS

Fuel is one of WBCT's highest operating expenses, and propane has consistently delivered savings.

- **25%** lower fuel spend
- Equivalent to **$6.17 PER OPERATIONAL HOUR** with propane versus $8.14 with diesel

Combined with past Alternative Fuel Tax Credits, propane has proven to be the most cost-effective choice for WBCT's large-scale operations.

EMISSIONS REDUCTIONS

By transitioning from diesel to propane, WBCT has achieved significant results in air quality performance:

- **99.9% DECREASE** in tailpipe NOx emissions
- **75% REDUCTION** in tailpipe total hydrocarbons emissions
- **74.7% LOWER** lifecycle CO_2 when renewable propane is used

These achievements support both California's regulatory requirements and WBCT's long-standing commitment to cleaner operations at the port.

RELIABILITY & PERFORMANCE

At one of the busiest ports in the world, downtime is not an option. WBCT's propane-powered equipment delivers the same duty cycles and horsepower as diesel, while offering faster turnaround compared to electric.

- **10-MINUTE REFUEL TIME** versus hours-long charging downtime for electric
- **NO DISRUPTIONS** from grid brownouts, a common issue in port operations
- **ULTRA-LOW NOx PROPANE ENGINES** proven to meet WBCT's heavy-duty cycles

FOR MORE INFORMATION

Learn how propane equipment meets the operational, economic, and environmental demands of port operations at **propane.com/ports**.

"Propane has delivered on both fronts – the equipment matches diesel performance, refuels quickly, and avoids the grid challenges we'd face with electric."

MATT SENTELL
Vice President, Operations

Propane Education & Research Council

200 S. 10th Street, Suite 1075 / Richmond, VA 23219
P 202-452-8975 / F 202-452-9054