ENERGY FOR EVERYONE
propane

An Unparalleled Energy for Ports

WITH ADVANTAGES FAR BEYOND WHAT OTHER ENERGY SOURCES OFFER, PROPANE IS TRANSFORMING PORTS FOR THE BETTER.

ALL-AROUND VERSATILITY
Propane can power it all, from light- and medium-duty vehicles to terminal tractors and forklifts to commercial generators and marine vessels.

CLEANER THAN ELECTRIC
Many ports turn to electric equipment to meet environmental regulations, but propane reduces harmful emissions — including NOx — at a better price point.

PROVEN PERFORMANCE
No matter how you're using it, propane brings the power your port crews need to accomplish every task. For example, electric forklifts tend to lose power throughout a shift while propane forklifts operate at 100% for the duration of a cylinder.

MORE COST-EFFICIENT
Propane equipment delivers a low total cost-of-ownership, reducing your equipment, maintenance, and infrastructure costs.

PROPANE IS CHANGING THE WAY THAT PORTS OPERATE — by delivering measurable benefits that other energies simply can't match. Propane is perfect for powering the large-capacity loads that ports handle daily, without the downtime that comes with electric models. Plus, propane reduces harmful emissions, including sulfur oxides, making it both cleaner and more reliable than other fuels — and more affordable, too. Switching to propane can mean lower fuel costs, less maintenance, and less expensive infrastructure, for a lower total cost-of-ownership.



MARINE VESSELS



PORT & TERMINAL TRACTORS



CRUISE SHIP SHUTTLES



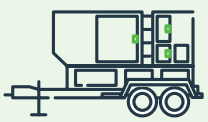
LIGHT-DUTY VEHICLES



MEDIUM-DUTY VEHICLES



FORKLIFTS



COMMERCIAL GENERATORS

Propane offers ports the opportunity to reduce emissions — and overall costs.

Not only can propane power the large-capacity loads that terminal tractors handle every day, but it also produces fewer greenhouse gas emissions than grid-generated electricity. Deployed directly at the point of use, propane is highly efficient — and thanks to its low cost-of-ownership and the availability of additional funding opportunities, it's highly cost-effective.

PROPANE PERFORMANCE

As the only alternative fuel listed in the Clean Air Act, propane is an affordable replacement for gasoline or diesel. Propane also reduces more emissions per dollar spent than any other fuel, benefiting both the environment and your bottom line. In addition, propane:

- Reduces emissions such as greenhouse gases and carbon dioxide
- Reduces air pollutants like carbon monoxide and nitrogen oxide
- Produces significantly fewer emissions than diesel or gasoline
- Produces 52% fewer greenhouse gas emissions than grid electricity

Propane is stored as a liquid, and when released, it vaporizes and dissipates — which means it won't contaminate groundwater, drinking water, marine ecosystems, or other sensitive habitats. Unlike natural gas, propane contains no ozone-harming methane.

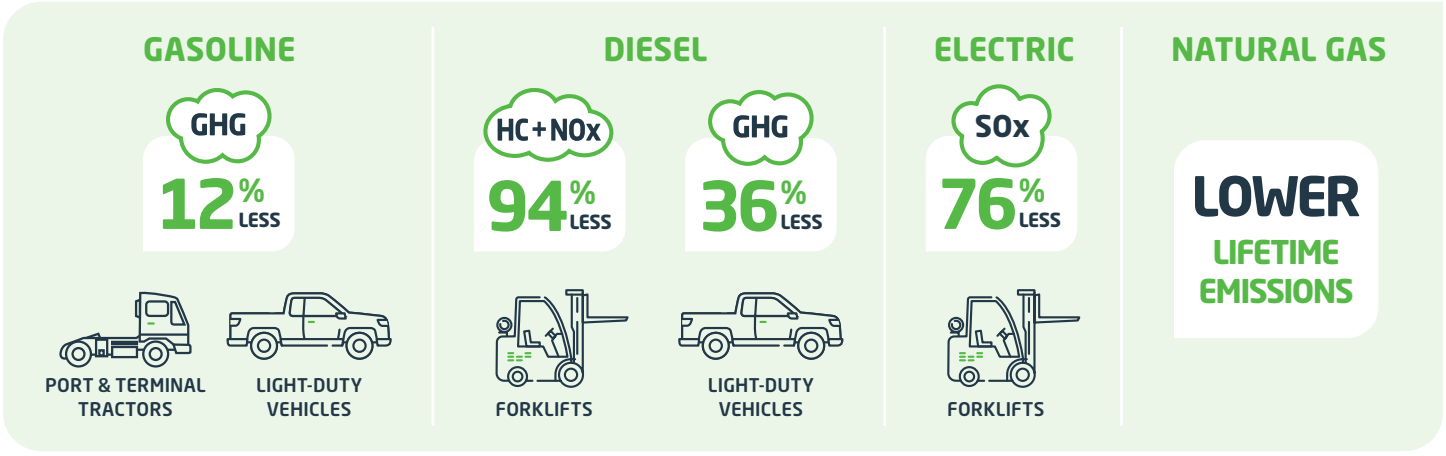
New developments in terminal tractor technology are also advancing in order to further enhance the performance of propane-powered equipment. The latest terminal tractor engines are able to produce a maximum torque of 553 ft-lb at 1,600 rpm, with 265 horsepower at 2,600 rpm. That's powerful performance — and propane is able to deliver it at only a fraction of diesel's fuel costs.

PROPANE FUNDING

With local, state, and federal grants available — along with provisions included in the latest infrastructure bill — your cost to start reducing emissions is more manageable than ever. Maritime Administration (MARA), Diesel Emissions Reduction Act (DERA) Program, and local funding opportunities may exist in support of further decarbonization in the ports. Contact your local port authority, regional clean cities coalition, and state or regional propane gas associations for more information on funding opportunities.

PROPANE PROGRESS

If you're interested in bringing propane to your port, you can start by identifying the equipment that will give your port the fastest path to decarbonization. Your local or regional propane distributors will be glad to assist you in establishing necessary quantities and availability of equipment to meet your needs.



FOR MORE INFORMATION

Learn more about how propane can help your port spend less and get more today, at **Propane.com/Ports**.

THE PROPANE EDUCATION & RESEARCH COUNCIL was authorized by the U.S. Congress with the passage of Public Law 104-284, the Propane Education and Research Act (PERA), signed into law on October 11, 1996. The mission of the Propane Education & Research Council is to promote the safe, efficient use of odorized propane gas as a preferred energy source.

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