

# PURE POWER

A large semi-truck is driving on a road towards the viewer, with a car further ahead. The scene is set at sunset, with a bright orange and yellow sky and a low sun on the horizon. The road is dark, and the truck's headlights are visible. The overall mood is one of power and energy.

February 2018

**NGVAMERICA**  
Natural Gas Vehicles for America

# Powering Forward with NGV America



✓ **Introduced** the LNG Inland Waterways Parity Bill, S. 505, by Sen. Bill Cassidy (LA).

✓ **Published** the long-awaited CNG Fuel System Inspection System Guidance.

✓ **Secured** - in the FY 2017 Omnibus Spending Agreement - up to \$15 million for natural gas engine research and development funding, \$34 million for Clean Cities Deployment, and programmatic language specifically expressing support for the use of natural gas as a transportation fuel, directing the Secretary of Transportation to "assess new developments and advances with respect to natural gas vehicles, to oversee implementation of new safety regulations for liquefied natural gas fuel tanks and fuel systems on commercial motor vehicles, to revise and update regulations for compressed natural gas (CNG) cylinders, including inspection requirements for such cylinders;" and to "issue guidelines on the ability of bus manufacturers to deploy transit buses that have roof-top mounted CNG cylinders, and to clarify through guidance that rules restricting alternative fuel vehicle access to bridges and tunnels should not be any more restrictive than those addressing gasoline and diesel fueled vehicles."



✓ **Clarified** with the Federal Highway Administration through the assistance of Sen. James Inhofe (OK) the 2,000 lbs. weight limit for NGVs.

✓ **Successfully lobbied** for NGV vehicle incentives in 7 states and NGV station incentives in another 5 states. Fourteen states passed NGV weight exemptions to compliment Federal law (making 24 now total), and 4 states adopted important diesel gas equivalent (DGE) method of sale language.

✓ **Initiated** an aggressive Volkswagen Environmental Mitigation Trust Settlement effort to maximize the \$2.9 billion Trust's investments in NGV vehicles and technology in all 50 states, the District of Columbia, and Puerto Rico. Collaborated with Argonne National Laboratory to establish a Vehicle Emissions Calculator to medium- and heavy-duty vehicles, linked at NGVA's online VW Trust Action Center.

✓ **Hosted** a first-ever forum at the High Horsepower Summit in Jacksonville, advancing the organization's goals of expanding into the HHP off-road, rail, and marine markets.

✓ **Completed** the 2nd Annual Drive NatGas NGV Road Rally in June, beginning on the West Coast and ending in Washington, DC with 16 stops in between, through the support of 60 venue partners and industry sponsors.



✓ **Engaged** in proactive, aggressive lobbying on behalf of NGVs that led to comprehensive tax reform. The newly-created NGVA Tax Reform Tax Force is now maximizing efforts to ensure extension of the Alternative Fuels Tax Credit (AFTC) which expired in December 2016.

✓ **Registered** wins with the U.S. Environmental Protection Agency - funding levels under the Diesel Emissions Reduction Act (DERA) funding for low-NOx engine equipped vehicles increased from 25 percent to 35 percent and the agency authorized use of natural gas retrofit systems for on-road vehicles under DERA for the first time.

## ✓ 2017 SUCCESSES

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▲ NGVA member AMP Americas' operation at Fair Oaks Farms in Indiana received the first dairy waste-to-vehicle fuel pathway certified by CARB, compiling a ground setting carbon intensity value of -254.94. This project became the first U.S. EPA Renewable Fuel Standard-certified dairy waste-to-vehicle fuel project in the United States.



▲ NGVA member Waste Management opened its 100th natural gas station and deployed its 6,000 natural gas refuse truck, making it the largest operator of heavy-duty NG trucks in North America.

▲ Carnival Cruise Lines signed an agreement with NGVA member company Shell NA LNG to be its supplier of marine LNG to power North America's first fully LNG-powered cruise ships.



▲ The U.S. Environmental Protection Agency (EPA) and California Air Resources Board (CARB) certified NGVA member company Cummins Westport's (CWI) 2018 6.7, 9, and 12 liter natural gas engines as meeting CARB-optional Low NOx emission standards, as well as current EPA greenhouse gas emission (GHG) requirements. The 6.7 liter is certified to CARB optional Low NOx standard of 0.1 g/bhp-hr - a 50% reduction from current EPA levels. The 9 and 12 liter engines are certified to CARB optional Low NOx standard of 0.02 g/bhp-hr - a 90% reduction from engines operating at the current EPA NOx limit of 0.2 g/bhp-hr - and making them among the cleanest engines available today for heavy-duty truck and bus vehicle use.



▲ The State of Oklahoma completed its goal of a CNG station every 100 miles of highway.

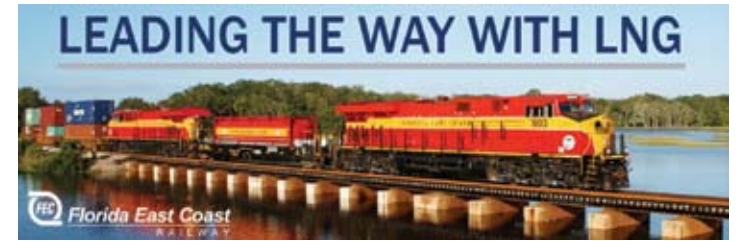
# ▲ 2017 Industry MILESTONES

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The U.S. Energy Information Administration reported that renewable natural gas (RNG) “derived from biogas collected at landfills and other facilities, is increasingly used to meet government targets for renewable fuel production. In 2016, about 189 million gallons of RNG were used to meet about 82% of federal targets set specifically for cellulosic biofuel.”



In November, the Florida East Coast Railway unveiled its modified fleet of 24 GE ES44AC locomotives, which operate in pairs with a purpose-built fuel tender supplied by NGVA member company Chart Industries. The EPA Tier 3-compliant locomotives look identical to standard ES44ACs, but their GEVO prime-movers have been retrofitted by GE with its NextFuel low-pressure technology, giving the railway the flexibility to run on both diesel fuel and LNG with up to 80% gas substitution or 100% diesel.



A 2014 CNG class 8 tractor operated by Ruan Transportation Management Systems reached the milestone of 1 million miles in service without one major maintenance issue. It is part of a fleet of 40 tractors domiciled at Ruan's operation at Fair Oaks.



NGVA member Volvo Group's Mack LR and TerraPro refuse vehicles became available with the Cummins Westport L9N natural gas engine, offering another option for those looking to generate near-zero levels of NOx.

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Working with multiple NGVA members, scientists with WVU's Center for Alternative Fuels, Engines and Emissions and the Environmental Defense Fund published a study marking the first significant effort to quantify actual in-use methane emissions from natural gas refueling stations and heavy-duty vehicles.



NGVA member Trillium CNG builds 8 new refueling stations as part of its partnership with the Pennsylvania Department of Transportation, contributing to its landmark year with 20 station upgrades and 20 new station built nationwide.



By the end of 2017, NGVA member UPS had reached a combined 1.2 billion miles traveled by its natural gas vehicle fleet (tractors and delivery vans) since the year 2000. Its natural gas-powered U.S. fleet of tractors alone now logs 1 million miles each day and 7.5 million miles each week.



NGVA members SoCalGas and Southwest Gas facilitated the development of dairy biomethane pilot projects under California Senate Bill 1383, an initiative intended to capture and process biogas from dairy cows to produce renewable natural gas for transportation and other purposes. At least 5 projects will be selected through the solicitation.

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NGVAmerica is a national organization of over 200 companies, environmental groups, and government organizations dedicated to the development of a growing, profitable, and sustainable market for vehicles powered by natural gas or biomethane. NGVAmerica member companies produce, distribute, and market natural gas and biomethane across North America, manufacture and service natural gas vehicles, engines, and equipment, and operate fleets powered by clean-burning gaseous fuels.

Find out more at: [www.ngvamerica.org](http://www.ngvamerica.org)