



CUMMINS NATURAL GAS ENGINES.



BUILT FOR THE WAY YOU WORK.

FOR A WORLD THAT'S ALWAYS ON™



TABLE OF CONTENTS.

Everybody's Business	3
Certified – Reducing the Emissions That Matter	4
Energy Diversification – Ways to Move Forward	5
Cummins Clean Fuel Technologies	6
Where Natural Gas Comes From	7
Transitioning From Diesel	9
Operational Advantages	10
Costs and ROI	11
The Support You Need	12
The World's First Long-haul Natural Gas Engine	13
Compliance Today and Tomorrow	14
Learn More	15



SUSTAINABILITY

IS EVERYBODY'S BUSINESS.

We all need to protect our environment but we also need to maintain the productivity that drives our economy. Cummins natural gas engines can help fleets lower transportation emissions and reduce their overall environmental impact without significantly increasing cost of operation or sacrificing performance. They run on clean, renewable energy and meet U.S. energy source goals and energy independence initiatives. Natural gas-powered trucks fit current transportation movement models and don't require radical changes in vehicle technology or transportation infrastructure.



CERTIFIED: TO MEET THE TOUGHEST EMISSIONS STANDARDS.

CERTIFIED CARB COMPLIANT.

The California Air Resources Board (CARB) is the toughest regulatory body in the nation. The entire family of Cummins natural gas engines exceeds CARB regulatory demands across the board in every application and far exceeds current emission standards set by the Environmental Protection Agency (EPA). These engines assure your operation of immediate compliance everywhere in North America with an energy source that is 100% renewable and can give you an improved ESG rating and a carbon negative score (sub-zero emissions) when using renewable natural gas (RNG).



**STRONGER,
CLEANER, SAFER**

WAYS TO MOVE FORWARD.

Cummins natural gas engines emit greatly reduced particulate matter, NO_x and CO_2 at levels far below current EPA standards. Using renewable natural gas can drop greenhouse gas (GHG) emissions to near-zero or even sub-zero levels. That's because natural decomposition produces methane that would have otherwise been emitted into the atmosphere, but when captured as RNG fuel for internal combustion is burned with near-zero emissions in a natural gas engine.

CNG FUEL SYSTEM SOLUTIONS FOR VIRTUALLY EVERY INDUSTRY

Cummins Clean Fuel Technologies offers a variety of CNG fuel system configurations that fully integrate with multiple body OEMs to serve the needs of fleets who have adopted natural gas vehicles.

Using our innovative design and manufacturing process, advanced safety features and fast-to-fit™ installation technology, we bring you a range of fuel systems built with your needs in mind. Cummins Clean Fuel Technologies' product line includes configurations for industries including refuse, over-the-road, construction, port, pick-up and delivery, transit and school bus, and many others.

Learn more at cumminscleantech.com



Tailgate system

Side mount system

Back of cab system

Roof mount system



WHERE IT COMES FROM.

Some natural gas comes from petrochemical reservoirs deep within the earth. Renewable natural gas (RNG) is different. It is a purified form of methane (CH₄) captured from various sources such as landfills, agricultural waste, and waste water treatment plants. Organic matter, aided by bacteria, decomposes and produces gas naturally.

Left alone, methane from these waste sources off-gasses directly into the atmosphere, where it affects the ozone layer, contributes to atmospheric warming and negatively impacts global climate change.



WHERE IT GOES.

Reclaiming methane gas for engine fuel manages it far more sustainably, turning an environmental liability into a clean and efficient economic opportunity for the transportation sector, municipalities and industry at large.



SCALABLE PROVEN TECHNOLOGY

In 2021, 64% of all natural gas used across the United States was RNG. In California, the number is even higher. 98% of all natural gas used in California in 2021 was RNG.

Choosing renewable natural gas has an immediate positive impact on the environment, both by lessening methane release into the atmosphere and reducing the world's dependence on fossil fuels.



PIPELINE TO A GREENER, HEALTHIER FUTURE

If you were to convert a fleet of 100 trucks producing 8.558 metric tons of carbon dioxide emissions per year to natural gas use, it would be equivalent to taking 1,522 passenger cars off the road, or eliminating the greenhouse gas emissions created by burning 18,500 barrels of oil in electrical usage, or the greenhouse gas emissions emitted from heating and powering 942 homes for an entire year.



Lowers GHG emissions equivalent to nearly 8.8 billion miles driven by average passenger car



Reduces CO₂ emissions equivalent to nearly 394 million gallons of gasoline consumed



Environmental benefit equivalent to growing 57 million tree seedlings for 10 years



Equal to the carbon sequestration achieved by 4.3 million acres of U.S. forests for 1 year

TRANSITIONING



ISX12N

Horsepower
320–400 hp
239–298 kW

Torque
1150–1450 lb.-ft.
1559–1966 N·m

Certification
Up to EPA 2027



TO NATURAL GAS ENGINES.

The learning curve to implement natural gas engines isn't nearly as steep as people may think. With Cummins training, your team will quickly adjust to the distinct service intervals natural gas engines require as compared to our diesel products. Natural gas engines are especially well suited for return-to-base fleets with behind-the-fence fueling capability, and Cummins can assist with establishing home-base fueling for interested companies. Cummins works with fuel suppliers, fleet maintenance teams and OEMs. Smooth integration for our natural gas engine customers is assured.

OPERATIONAL ADVANTAGES.

1. Abundant low-cost domestic fuel
2. Maintenance-free exhaust treatment
3. Ease of transition from diesel to natural gas
4. Diesel-like ratings
5. Cummins support
6. The Cummins warranty

COSTS: UPFRONT, OWNERSHIP AND ROI.

Natural gas vehicles do have a higher upfront cost, but the lower cost of fuel can help you quickly recoup those costs and more. Low-cost fuel with stable pricing helps fleets forecast monthly, quarterly and annual operating costs.



The exhaust treatment system is maintenance free. There are no active regeneration requirements, no fluids, no filter cleaning and no filter replacements needed. And the Cummins FiberRed® suite of digital telematics products can help customers find still greater cost efficiencies.

A WORLD OF SUPPORT.

You call. We answer.

Cummins-powered vehicles are backed by the largest, most capable service and support network in North America, with over 3,700 locations to service your vehicle. Cummins Certified Technicians are fully trained on natural gas engines, with ready access to Genuine Cummins Parts and warranty support. One call to 1-800-CUMMINS™ and a Cummins Care representative will help locate the nearest authorized facility, any time, day or night, with the service you need no matter where you are.



A HIGHER LEVEL OF PERFORMANCE

The all-new 15L X15N™

The Cummins X15N will be the first natural gas engine on the road with 15-liter displacement.

Joining the family of Cummins NG engines — the B6.7N™, L9N™ and ISX12N™ — the large 15L X15N steps the power offering up to 500 hp and 1850 lb.-ft. of torque.

X15N will provide the power, range, and performance long-haul fleets need.

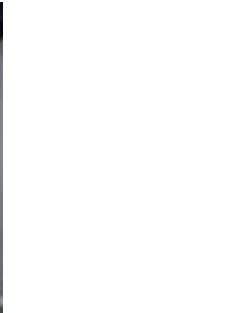


A HIGHER ESG RATING

Certified EPA compliance

- NO_x levels 90% below current EPA standard
- Particulate matter levels 90% below current EPA standard
- CO₂ equivalents 16% below current EPA standard
- Delivers sub-zero emissions with renewable natural gas (RNG)

The base warranty for all Cummins natural gas engines is the same as for the Cummins diesel base platforms and covers virtually everything, including 100% parts and labor on warrantable failures,* not just for the engine, but for the aftertreatment system as well.



Even consumables used in the repair are included. There's no deductible, and even towing is included.



THE CUMMINS WARRANTY:

PERFORMANCE AND COMPLIANCE FOR TODAY AND TOMORROW.



QUESTIONS? WE'VE GOT ANSWERS.

Cummins natural gas engines deliver Cummins performance, reduce environmental impact, and can be easier for your team to run, maintain, and fuel than you may imagine. Natural gas engines can help your operation work more efficiently and satisfy all regulatory compliance demands while you're at it.

LEARN MORE.

READ THE Q&A NOW.