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Cummins Unveils Industry-First Fuel-Agnostic Internal Combustion Powertrain Solutions, Helping Fleets Decarbonize Today With Low-Carbon Fuels

COLUMBUS, Ind.--(BUSINESS WIRE)-- Global power leader Cummins Inc. (NYSE: CMI) announced today that it is expanding its industry-leading powertrain platforms, leveraging a range of lower carbon fuel types. As the industry's first unified, fuel-agnostic engines, these platforms will use engine blocks and core components that share common architectures and will be optimized for different low-carbon fuel types.

"Getting to zero is not a light-switch event. Carbon emissions that we put into the atmosphere today will have a lasting impact. This means anything we can do to start reducing the carbon footprint today is a win for the planet. We need to take action now," said Srikanth Padmanabhan, President, Cummins Engine Business. "Having a variety of lower carbon options is particularly important considering the variation in duty cycles and operating environments across the many markets we serve. There is no single solution or "magic bullet" that will work for all application types or all end users."

Parts Commonality
These new fuel-agnostic engine platforms will feature a series of engine versions that are derived from a common base engine, which means they have a high degree of parts commonality. Below the head gasket of each engine will largely have similar components and above the head gasket will have different components for different fuel types. Each engine version will operate using a different, single fuel.

This new design approach will be applied across the company's legendary B, L and X-Series engine portfolios, which will be available for diesel, natural gas and hydrogen.

"This is a new way of designing and developing lower emission internal combustion powertrains that meet the unique needs of the transportation industry while leveraging the benefits of a common product architecture and footprint where possible," said Jonathon White, Vice President of Engineering, Engine Business. "This unique technology approach will allow end users to more seamlessly pick the right powertrain for their application with the lowest CO2 impact."

Parts commonality will offer increased benefits for both truck OEMs and end users, including similar engine footprints, diagnoses and service intervals. This means it will be easier for OEMs to integrate a variety of fuel types across the same truck chassis and there will be minimal costs to train technicians and re-tool service locations, resulting in a lower total cost of ownership for the end user.

Reliable & Durable
These fuel-agnostic platforms are designed and built-upon the learnings extracted from millions of diesel and natural gas engines manufactured and currently in-use. Today's digital and connected technologies allow Cummins to extract insights specific to different engine duty cycles, and leverage these to design reliable fuel-agnostic platforms.

"Our customers can be confident in Cummins' unmatched testing and evaluation process ensuring high-performance products," said White. "No matter what type of work a fleet does, we'll have an engine powered by lower carbon fuels with diesel-like performance to get the job done."

Destination Zero
These new products are an important element of Cummins' strategy to go further, faster to reduce the greenhouse gas (GHG) and air quality impacts of its products and reach net-zero emissions by 2050 in a way that serves all stakeholders in a sustainable way for Cummins' business. This commitment requires changes to Cummins' products and the energy sources that power them.

Two of the company's environmental sustainability goals for 2030 goals include reducing scope 3 absolute lifetime greenhouse gas (GHG) emissions from newly sold products by 25% and partnering with customers to reduce scope 3 GHG emissions from products in the field by 55 million metric tons.

"Cummins is innovating at every level of the company to find new ways of working that use fewer of the world's resources and the Engine Business is at the center of this exciting innovation," said Padmanabhan. "We know that our planet cannot wait for the perfect solution to happen. Instead, our approach must be a combined effort of using zero emissions power where it's available and using cleaner power where it is not. The planet cannot afford for us to hit pause in the meantime."

About Cummins Inc.
Cummins Inc., a global power leader, is a corporation of complementary business segments that design, manufacture, distribute and service a broad portfolio of power solutions. The company's products range from diesel, natural gas, electric and hybrid powertrains and powertrain-related components including filtration, aftertreatment, turbochargers, fuel systems, controls systems, air handling systems, automated transmissions, electric power generation systems, batteries, electrified power systems, hydrogen generation and fuel cell products. Headquartered in Columbus, Indiana (U.S.), since its founding in 1919, Cummins employs approximately 59,900 people committed to powering a more prosperous world through three global corporate responsibility priorities critical to healthy communities: education, environment and equality of opportunity. Cummins serves its customers online, through a network of company-owned and independent distributor locations, and through thousands of dealer locations worldwide and earned about $2.1 billion on sales of $24.0 billion in 2021. See how Cummins is powering a world that's always on by accessing news

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