

THIS IS THE

POWER OF CUMMINS

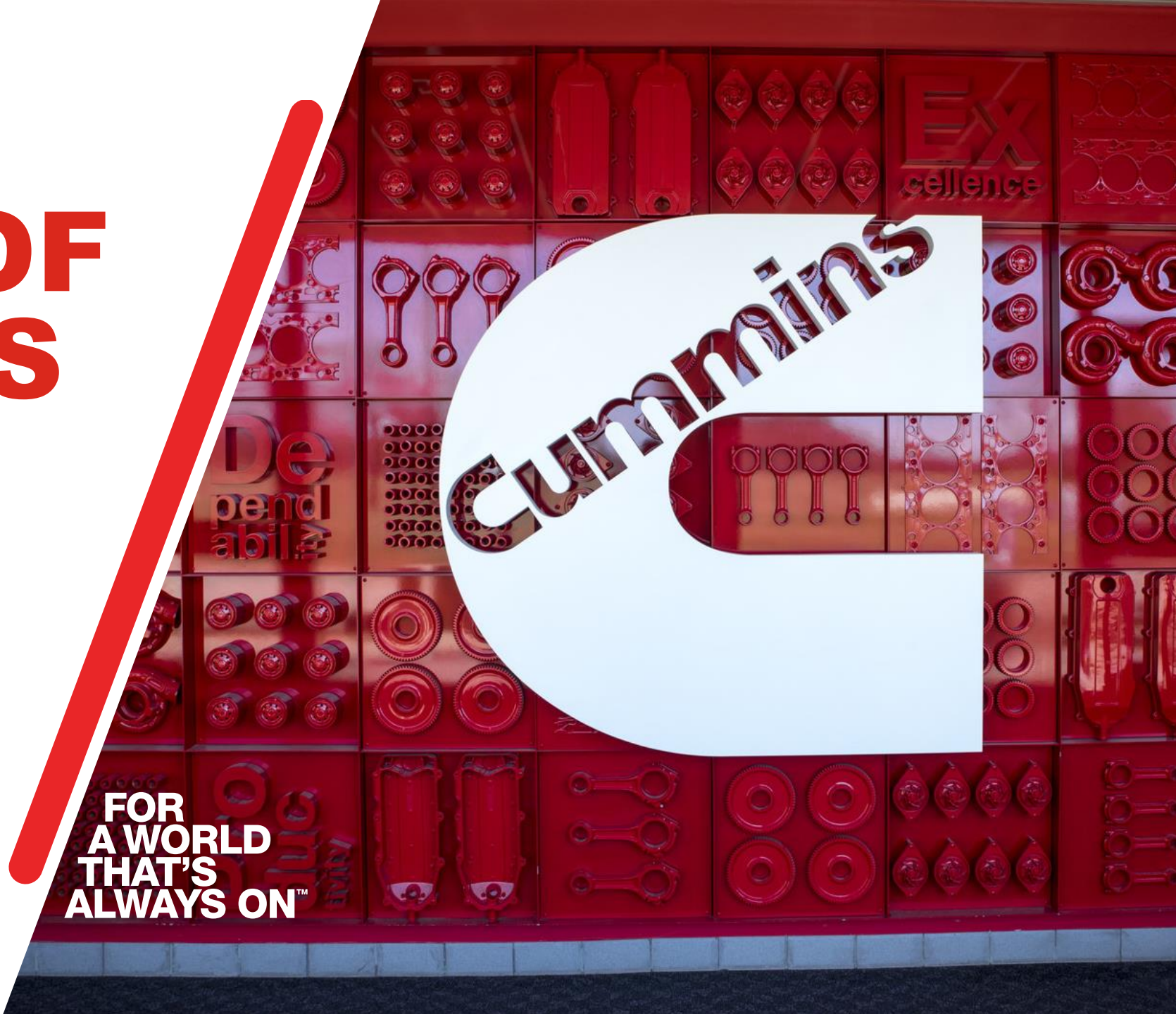
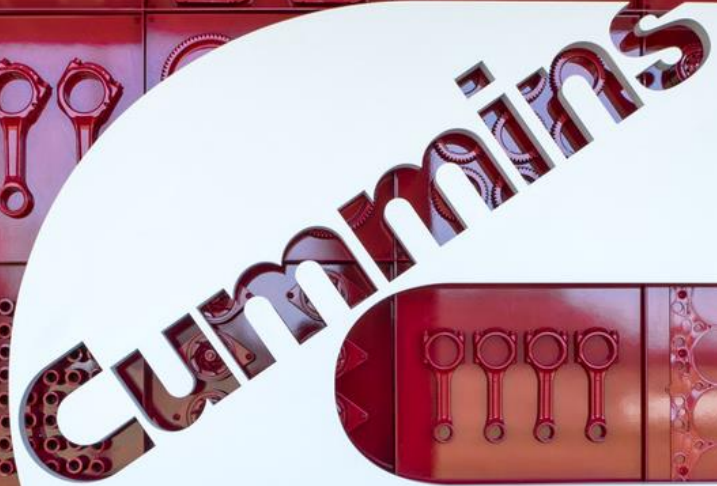
Communications

October 21, 2022

Public

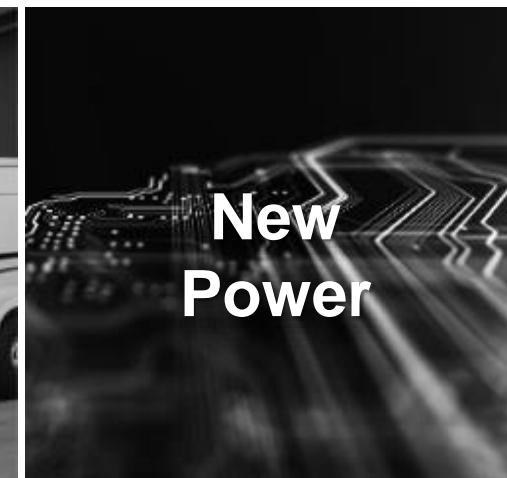
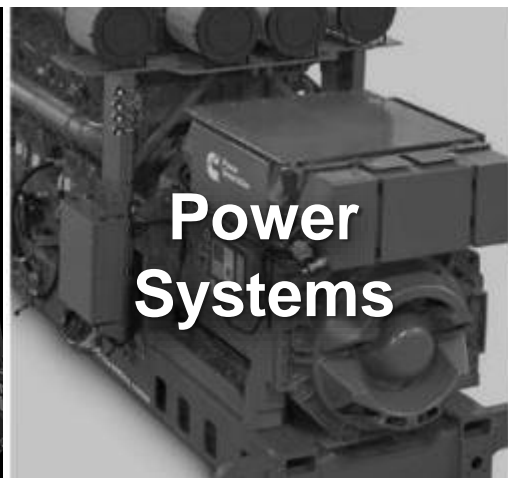
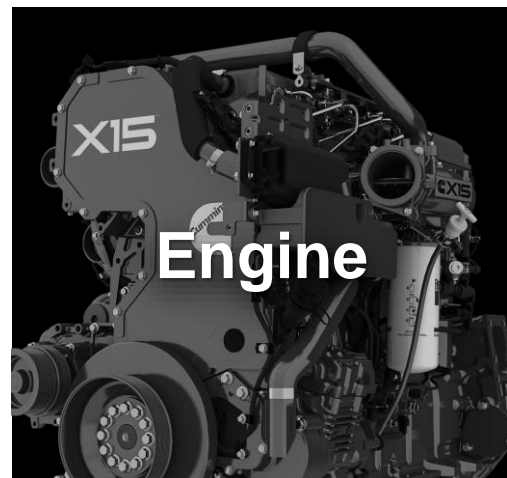


FOR
A WORLD
THAT'S
ALWAYS ON™



Five operating segments

Cummins has a 102-year-long track record of delivering leading power solutions. As we look ahead, we know our industries and regions will continue to change, and we are committed to bringing our customers the right technology at the right time.



Powering a more prosperous world

190 Countries and territories*

59,900 Global employees

103 Years of industry leadership

10,600 Cummins certified dealer locations

\$1.1B Invested in research and technology in 2021

** Approximation of countries and territories with Cummins service
As published in the 2021 10K found on cummins.com.*

Our global manufacturing and distribution footprint

ENGINE U.S., Brazil, India and U.K.

COMPONENTS U.S., Australia, Brazil, China, France, Germany, India, Mexico, South Africa, South Korea and U.K.

POWER SYSTEMS U.S., Brazil, China, India, Mexico, Romania, U.K. and Nigeria

DISTRIBUTION U.S., Australia, China, South Africa and U.K.

NEW POWER U.S., Belgium, Canada and Germany.

**The above reflects principal manufacturing facilities for each segment. In addition, engines and engine components are manufactured by joint ventures or independent licensees at manufacturing plants in the U.S., China, India, Japan, Sweden, U.K. and Mexico. For the Distribution Business, list reflects principal distribution facilities that serve all segments.*



CUMMINS NEW POWER

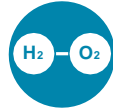
CORE TECHNOLOGIES



BATTERY ELECTRIC COMPONENTS AND POWERTRAINS

Creating technologies and products for commercial battery electric vehicles

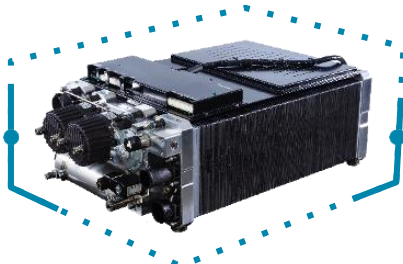
- On-highway: transit bus, school bus, medium-duty truck, walk-in van
- Off-highway: construction equipment, terminal tractor, material handling
- Components: Power Electronics, Electric Machines, eAxels, Battery Modules, Battery Packs



FUEL CELL VEHICLE SYSTEMS AND POWERTRAINS

Creating and integrating components for hydrogen fuel cell electric vehicles and rail

- Electric vehicles: urban transit bus, commercial fleet, utility vehicle, electric lift truck
- Installation: freestanding electrical power plant



HYDROGEN PRODUCTION

Creating solutions for industrial and commercial hydrogen generation and MW-scale energy storage

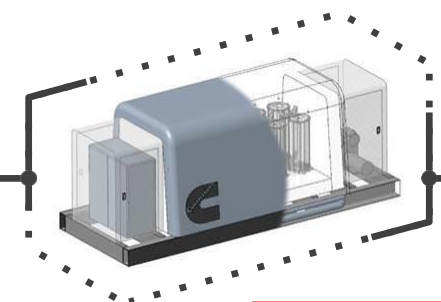
- Industrial processes and fueling stations: PEM generator, alkaline hydrogen generator
- Critical and uninterruptible power supply, power-to-gas technology



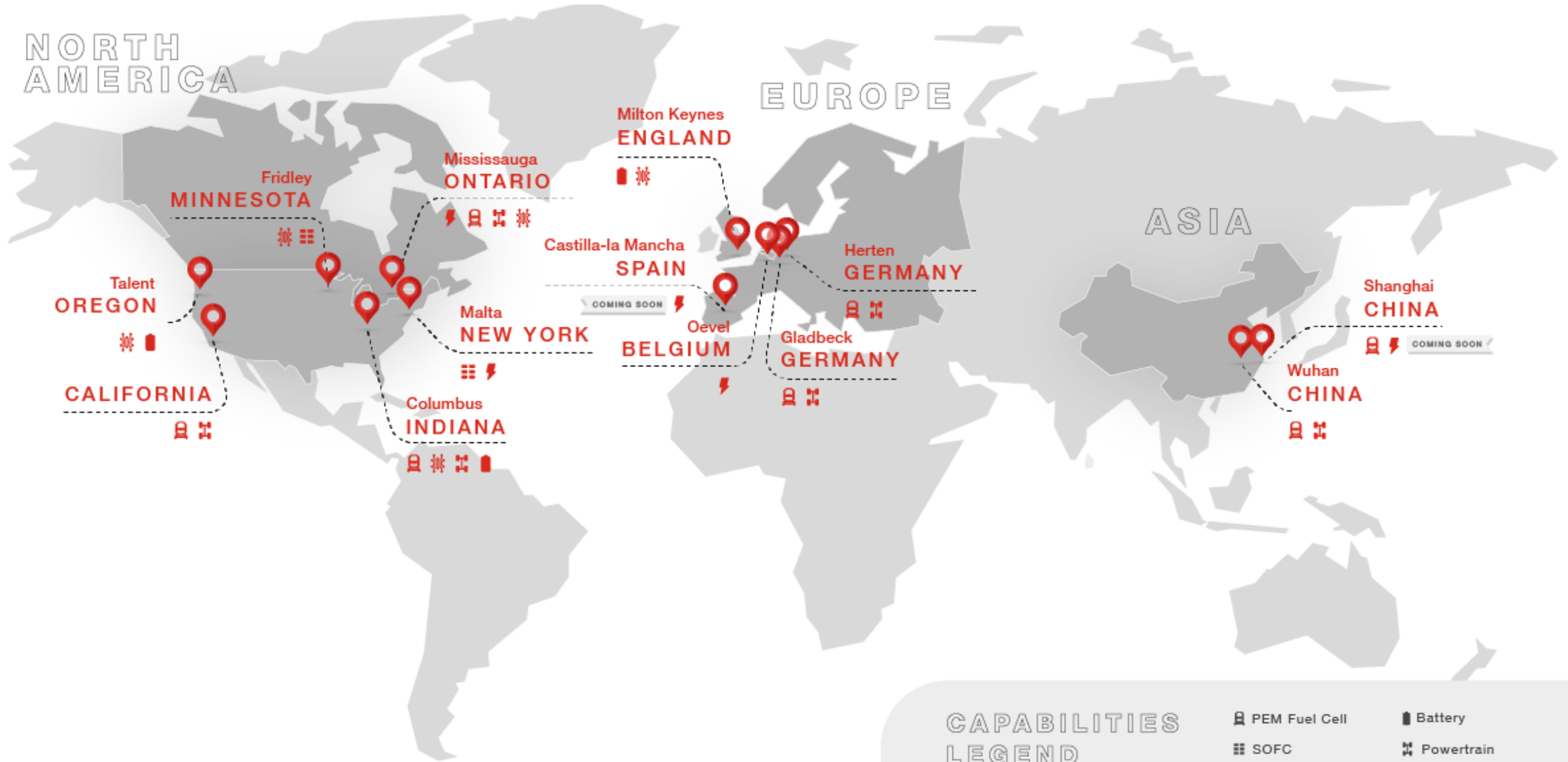
SOLID OXIDE FUEL CELLS

Creating modular, efficient solutions for stationary power applications

- Utility: microgrids, MW-scale grid firming and renewable integration
- Commercial/Industrial: manufacturing, data centers, water treatment facilities, hotels/resorts



NEW POWER FOOTPRINT



CAPABILITIES LEGEND

- PEM Fuel Cell
- SOFC
- Electrolyzer
- Battery
- Powertrain
- R&T

Cummins picks Fridley for 1st US electrolyzer production plant

▪ By KSTP

Updated: October 12, 2022 - 7:32 AM

Published: October 11, 2022 - 4:56 PM

A major manufacturer has chosen Fridley as the site of its first United States-based electrolyzer manufacturing facility.

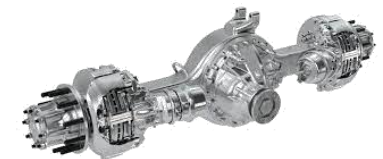
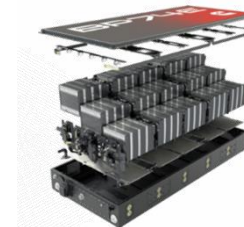
Monday, Cummins said it will dedicate 89,000 square feet of its existing facility in Fridley to electrolyzer production.



“Expanding Cummins’ electrolyzer manufacturing footprint to the United States is a milestone not only for our company but an important step in advancing global decarbonization efforts,” Alexey Ustinov, the vice president of electrolyzers at Cummins, said. “This is a reflection of increasing government support through the Inflation Reduction Act, Hydrogen Hubs and a blossoming hydrogen economy in the states. Cummins’ ability to leverage our manufacturing, engineering and sourcing knowledge to build capacity will help us meet increased customer demand and continue to accelerate the clean energy transition.”

Cummins and Meritor to deliver optimized powertrain solutions

- Advance electrification efforts through the combination of capabilities
- Utilize Cummins' sales network and global footprint to grow axle and brake sales
- Clear cost synergies in SG&A, supply chain operations and facilities optimization

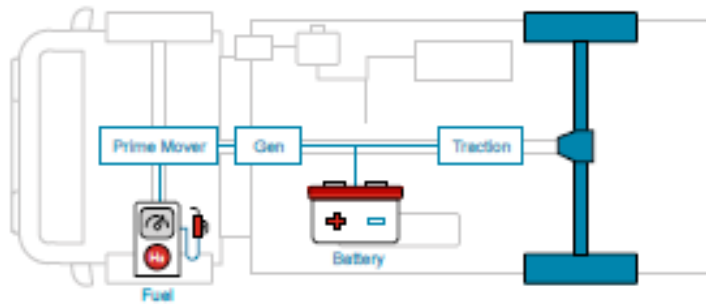


Complementary Technologies

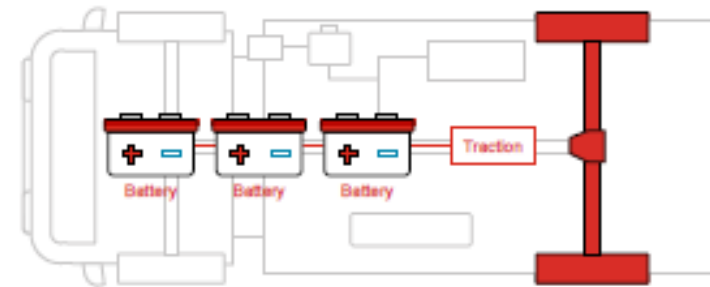
SERVICE + SUPPORT

System Offerings

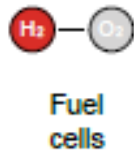
FUEL CELL & IC ENGINE HYBRIDS



FULL ELECTRIC



BATTERY MATERIALS, MEA'S & CELLS



Fuel cells

+



Battery pack

+



Inverters & converters

+



Controls

+



Engines



Accessories, cooling, wiring

+



Storage

=

INTEGRATED POWERTRAIN SYSTEM

BATTERY/ STACK REUSE OR RECYCLE

Components

CHARGING, CONNECTIVITY, HYDROGEN GENERATION + SUPPLY

Cummins New Power Applications IN THE FIELD

BATTERY ELECTRIC

1. Blue Bird school bus
2. GILLIG battery electric transit bus

FUEL CELLS

1. Scania trucks
2. Alstom passenger train
3. FAUN Refuse Truck

ELECTROLYZERS

1. Hybalance - 1.2-megawatt PEM electrolyzer
2. Cummins-Enbridge Power-to-Gas Facility
3. HyLYZER 1000 – 20 MW PEM electrolyzer system
4. Uniper (power-to-gas)

HYDROGEN FUELING STATION

1. Hydrogen fueling station: Delivered electrolyzers for more than 60 hydrogen fueling stations



Cummins New Power Applications

DEMONSTRATORS

BATTERY ELECTRIC

1. Heavy-duty truck
2. Electric step-in van
3. Hybrid utility truck
4. Excavator
5. Terminal tractor



FUEL CELLS

1. Class 8 Semi Truck
2. Transit bus
3. Helicopter
4. Airplane
5. E-Ferry



