# HYDRÔTEC

2022 SUSTAINABLE FLEET TECHNOLOGY CONFERENCE HYDROGEN AS A TRANSPORTATION SOLUTION

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# OVERVIEW

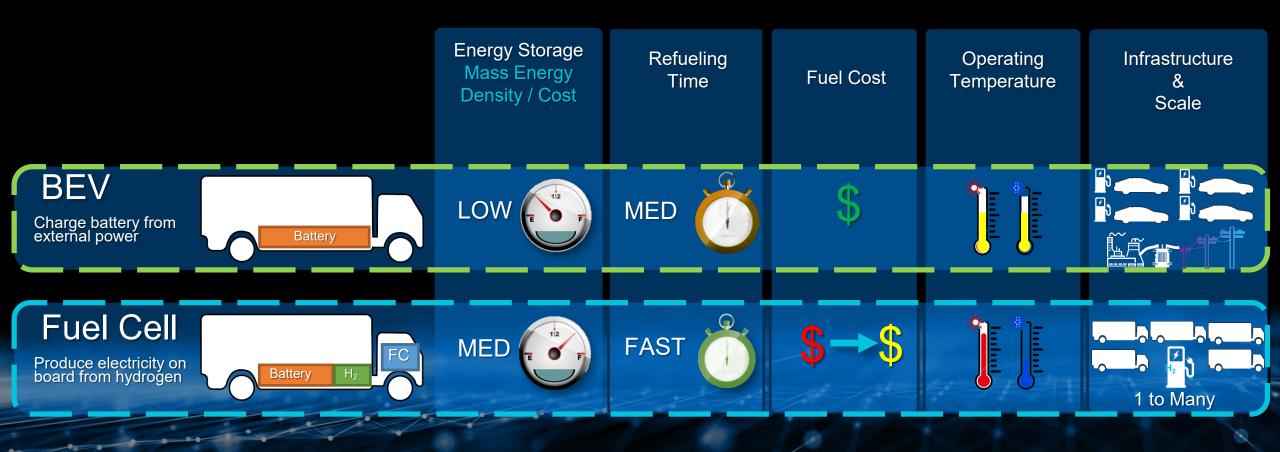
- GM Vision
- Battery AND Fuel Cell (VERSUS Battery OR Fuel Cell)
- Where & When Hydrogen Fuel Cells Make Sense

# THE GM VISION



# HYDRÔTEC

#### "AND NOT OR" - HYDROTEC FUEL CELLS COMPLEMENT BEVS



### HYDROTEC APPLICATIONS PORTFOLIO EXAMPLES – PLANES, TRAINS, TRUCKS, & MORE

- Large, High Fuel Consuming Applications
- Fleet & Known Refueling Sites
- Efficiency, Range, & Fast Refueling Required

**Commercial Aircraft Auxiliary Power Unit** 



Class 7/8 Commercial Trucks



Class 4/5/6 Commercial Trucks (GM)



**Stationary Power** 

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#### HYDROTEC FUEL CELLS SUPPORTING BEV DEPLOYMENT





Renewable Innovations EMPOWER Rapid Charger

Charging Hummer EV's with GM Palletized Fuel Cell DC Fast Chargers

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#### **F**

### GM DOE SUPERTRUCK3 PROJECT

- Medium duty trucks are used in a diverse and challenging array of applications
- Zero emission solutions required
- Targeting performance and total cost of ownership (TCO) equal or better than ICE trucks
- Requires scalable infrastructure to support zero emission trucks



### HYDROTEC Advantage

- GM's vision to create a world with zero emissions isn't limited to cars, light trucks and SUVs.
- HYDROTEC fuel cells will drive electrification beyond the auto industry including freight trucking, aerospace, power generation and locomotive – as these industries look to improve their performance and reduce emissions.
- GM is one of the only companies with advanced, homegrown technology platforms for both EVs and hydrogen fuel cells which allows us to deploy each technology where they best serve our customers' needs.



### everybody in.

## Q&A

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**GENERAL MOTORS GLOBAL FUEL CELL BUSINESS**