

# Clean Electric Drive





**WRIGHT**



# Product Strategy

Our focus is on offering a complete range of fuel efficient vehicles to meet all our operators needs.



# Low Carbon and Zero Emission Drivelines



1999



2008



2014



2002

2006

2012





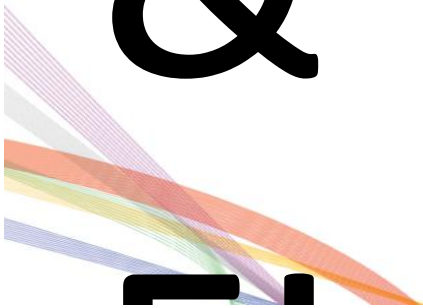
**2016**

**Launch of StreetAir**





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W R I G H T





# Overnight charging

- Power transferred via charging post to the vehicle
- Typical charge rate 80kW with 200kW systems in development
- Typical Charge time of approx. 4 hrs. reduced to 2 hrs. with 200kW system
- Range depends on the battery pack size



# Inductive Opportunity Charge

- **Wireless Power transferred from in ground charging coils to receptors on the underside of the vehicle**
- **Typical charge rates 120kW**
- **Charge time approximately 10 minutes**
- **Range depends on the battery pack size and proximity of charging stations**



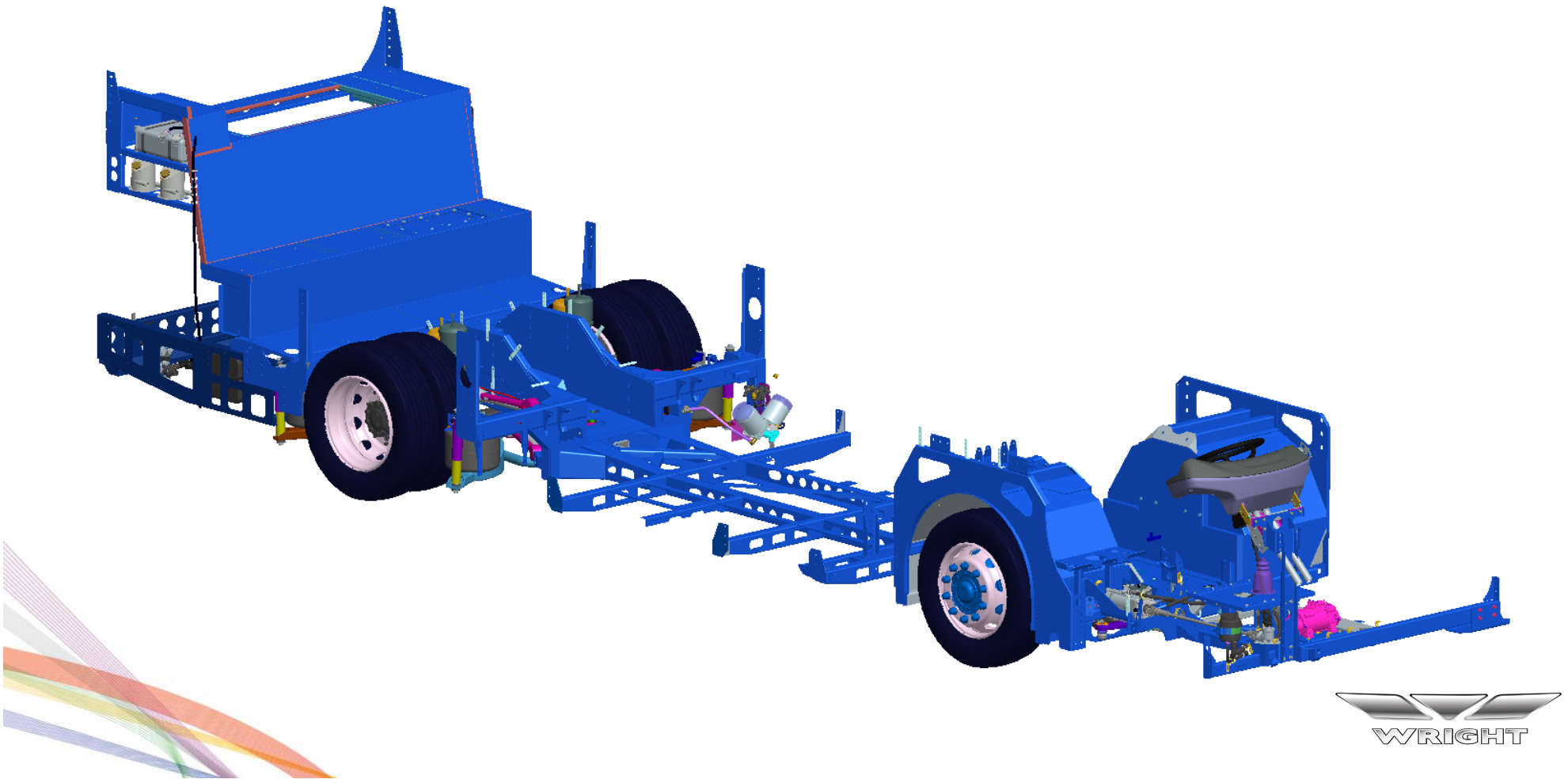


# Conductive opportunity charging

- Power transferred from above via pantograph to contactors on the vehicle
- Typical charge rate 300kW - can increase to max power 900kW
- Charge time approximately 5 minutes
- Range depends on the battery pack size and proximity of charging stations



# Modular Chassis Platform



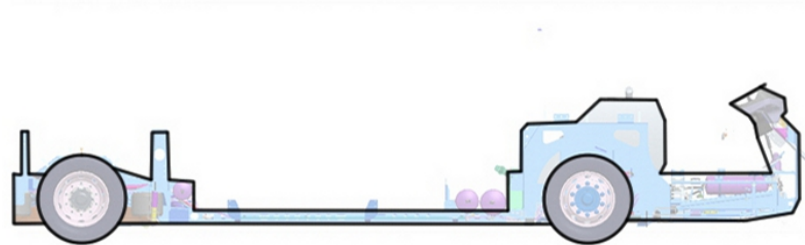


# Modular Chassis Platform

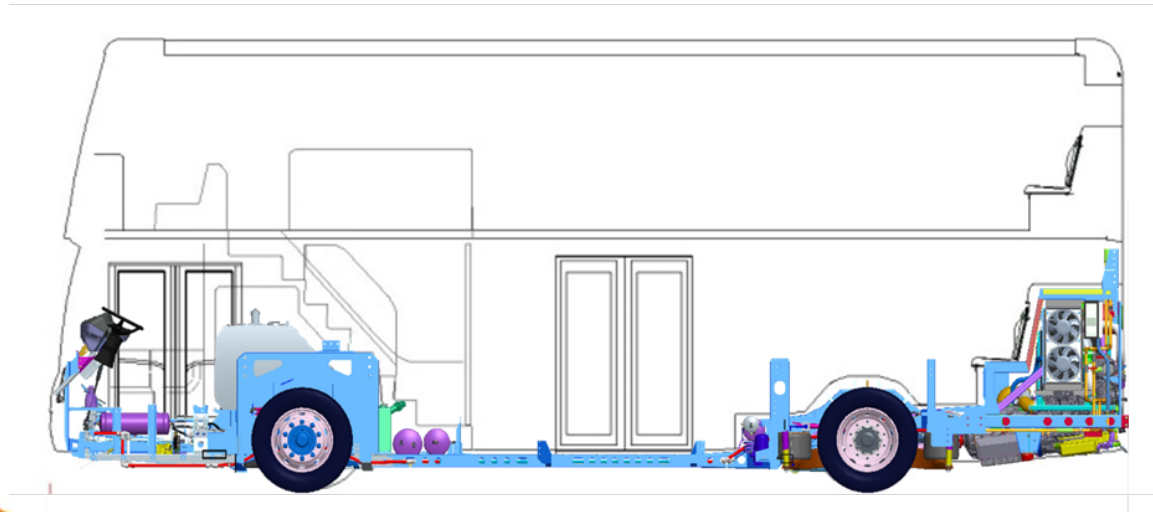
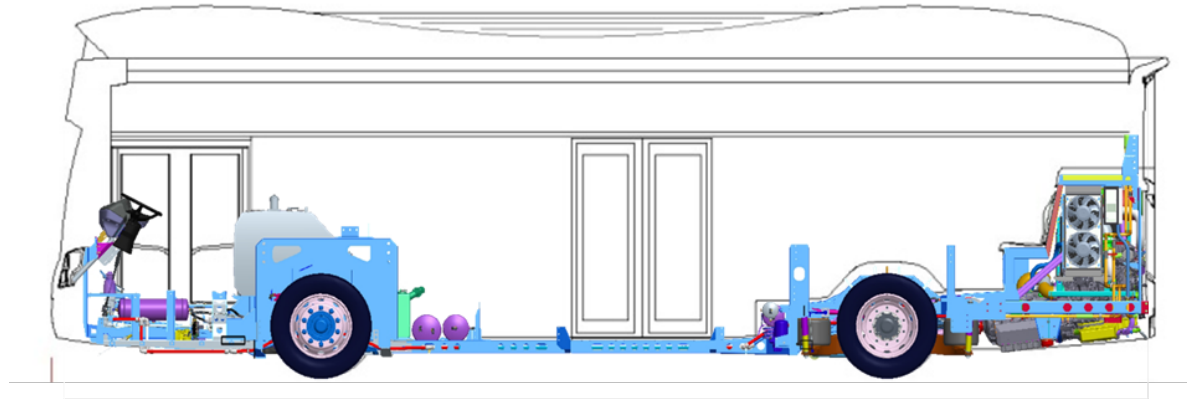
Rear Module for overnight charge



Rear Module for fast charge, including opportunity charge



# Modular Chassis Platform



# Modular Chassis Platform

	Overnight	Inductive Opportunity Charge	Conductive Opportunity Charge
Single Deck	✓	✓	✓
Double Deck		✓	✓







# Modular Chassis Platform

	Overnight	Inductive Opportunity Charge	Conductive Opportunity Charge
Single Deck	✓	✓	✓
Double Deck		✓	✓







# Modular Chassis Platform

	Overnight	Inductive Opportunity Charge	Conductive Opportunity Charge
Single Deck	✓	✓	✓
Double Deck		✓	✓

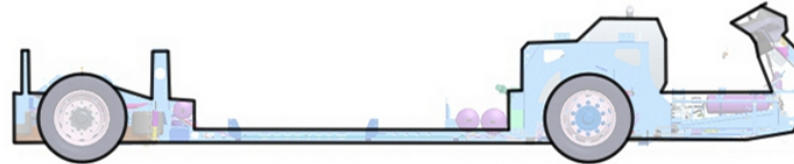


# Modular Chassis Platform

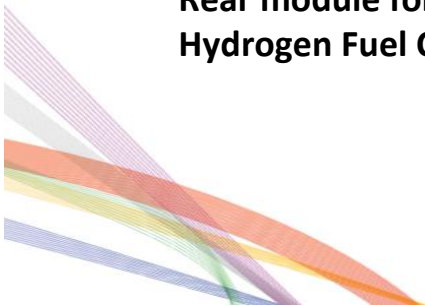
Rear Module for overnight charge



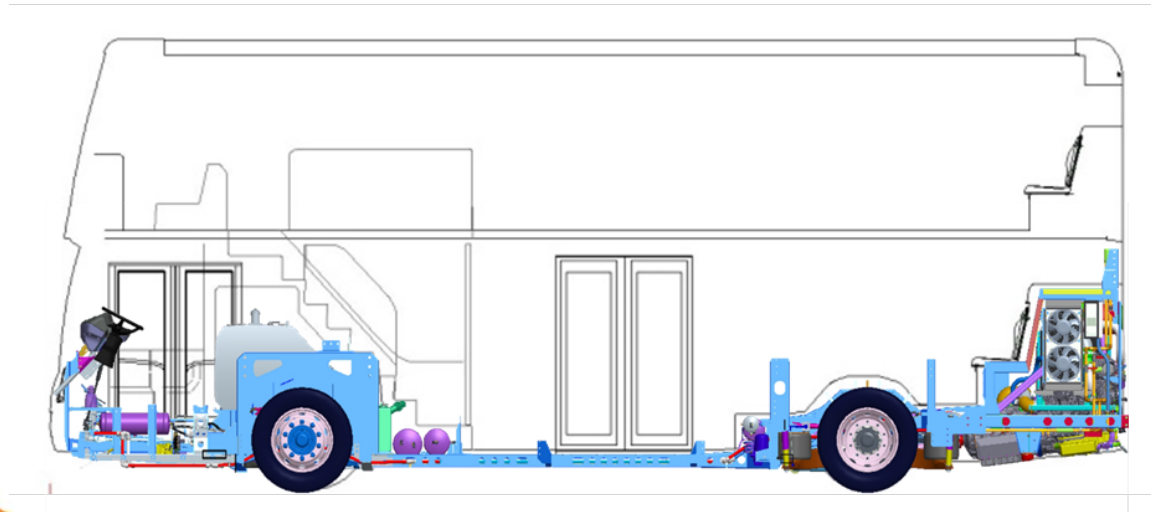
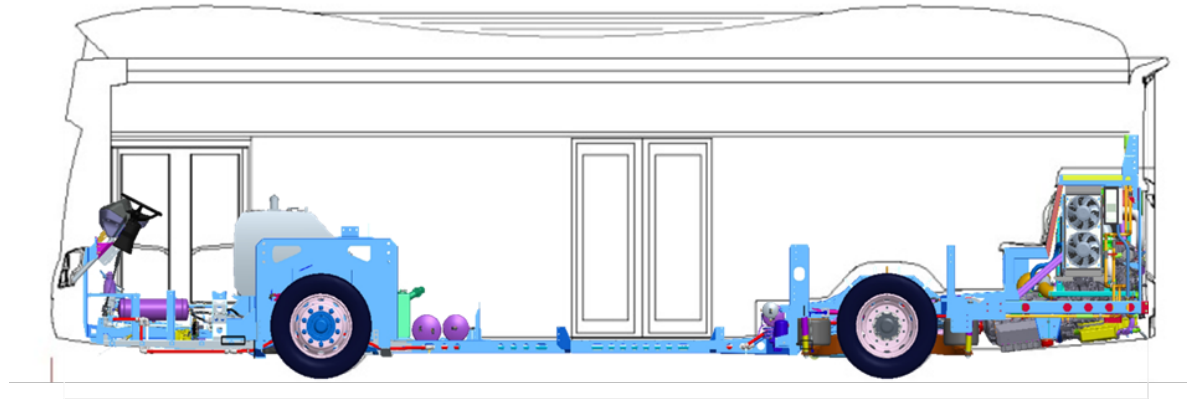
Rear Module for fast charge, including opportunity charge



Rear module for Hydrogen Fuel Cell

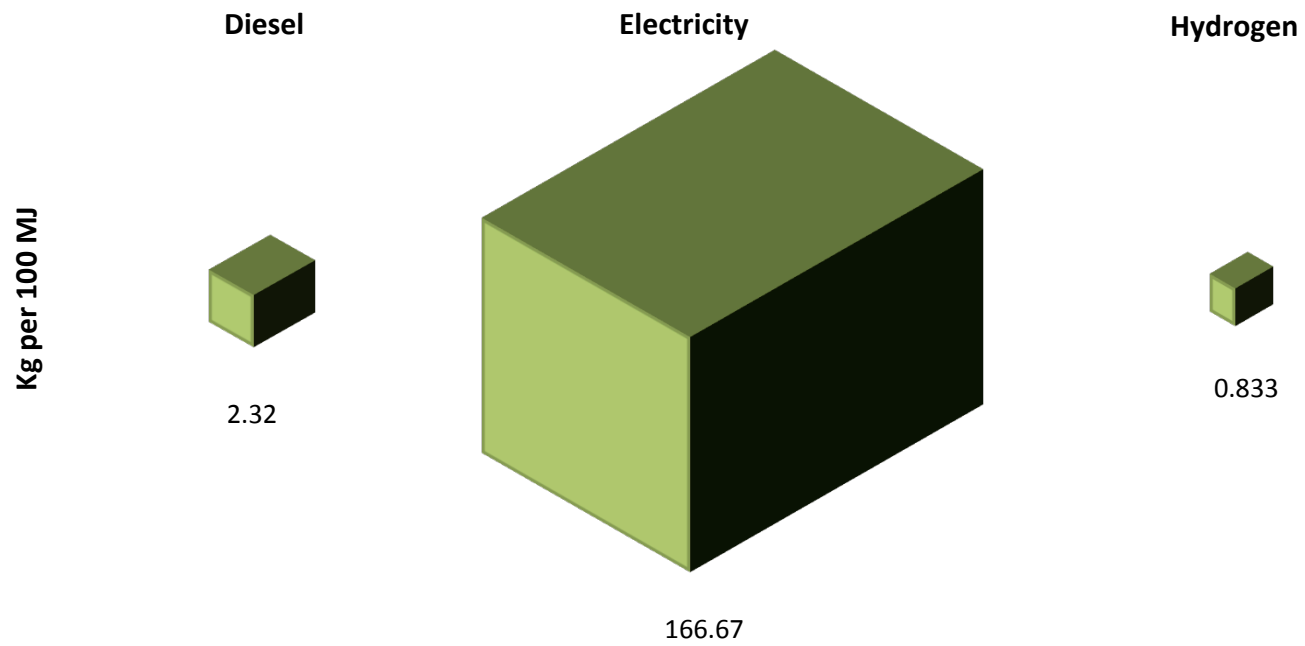


# Modular Chassis Platform

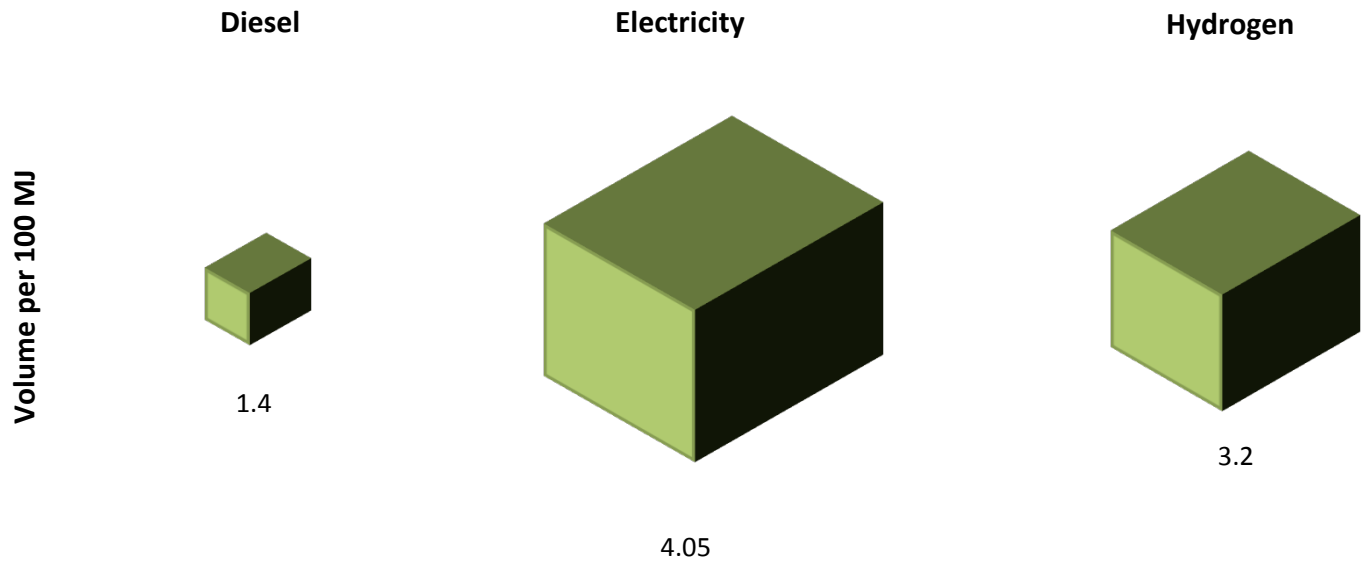




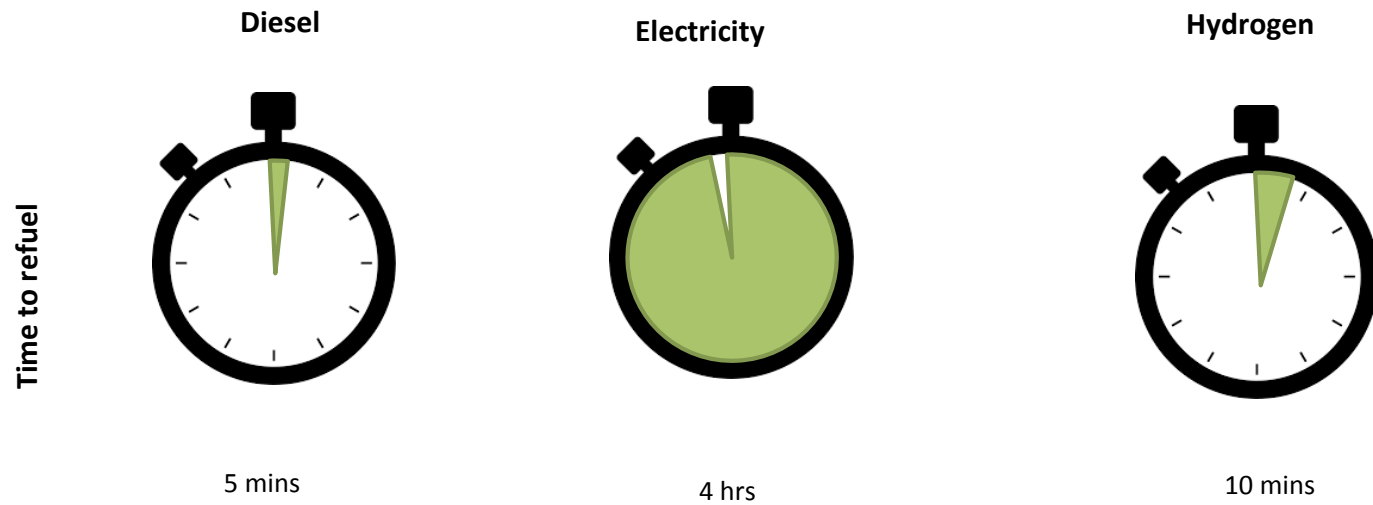
# Advantages of Hydrogen



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# Launch at Zero Emission Bus Conference



## Hydrogen Update

