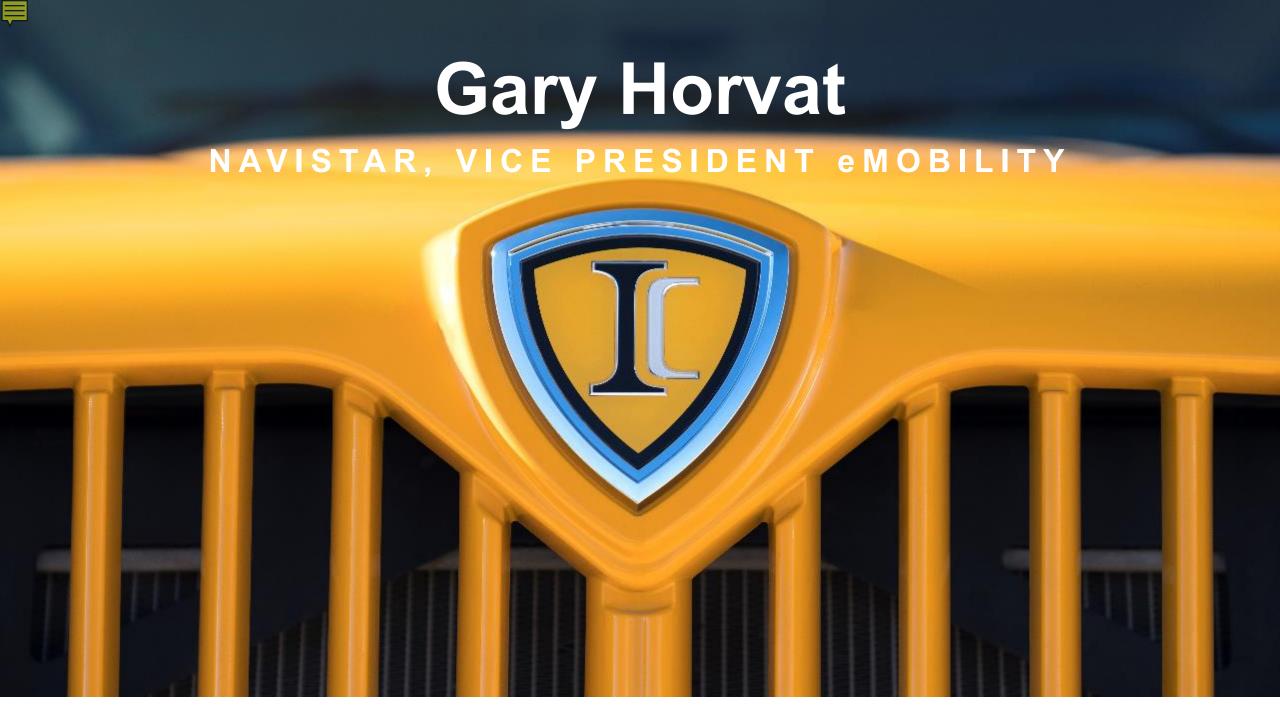


busworld. academy

NORTH AMERICA I JAN. 13-14, 2020

POWERED BY







IC Bus - Driving Choice



THE POWER OF CHOICE

Our goal is to help, and provide, the best choice!

Every IC Bus Except Electric comes standard with an Allison Transmission

DIESEL



- · Reliable and efficient
- · Most powerful
- Most durable
- Best fuel economy
- Maintenance experience (familiar)
- Access to fuel

Gasoline



- Lowest acquisition cost
- Limited aftertreatment
- Maintenance technician availability
- Ideal for stop and go & short routes
- Cold weather benefits
- · Access to fuel

Propane



- · Tax credit and grant availability
- Smooth, quiet, reliable power
- Most stable fuel price
- Clean burning
- Limited aftertreatment
- Cold weather benefits

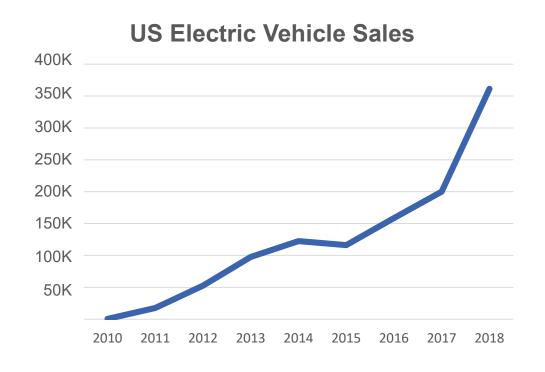
Electric (Concept)

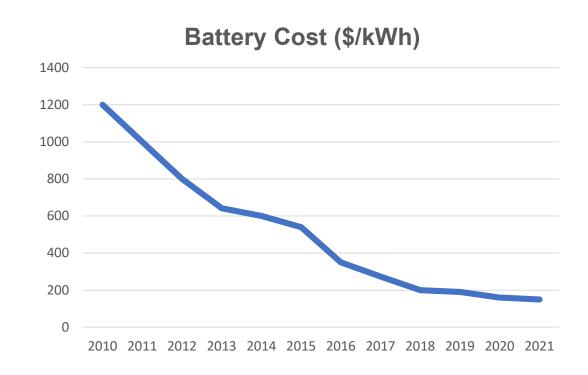


- · Tax credit and grant availability
- Zero emissions
- Lowest maintenance costs
- Unique power/acceleration/ off the line
- Estimated launch: 2020



ELECTRIC VEHICLE ECONOMICS CONTINUE TO IMPROVE

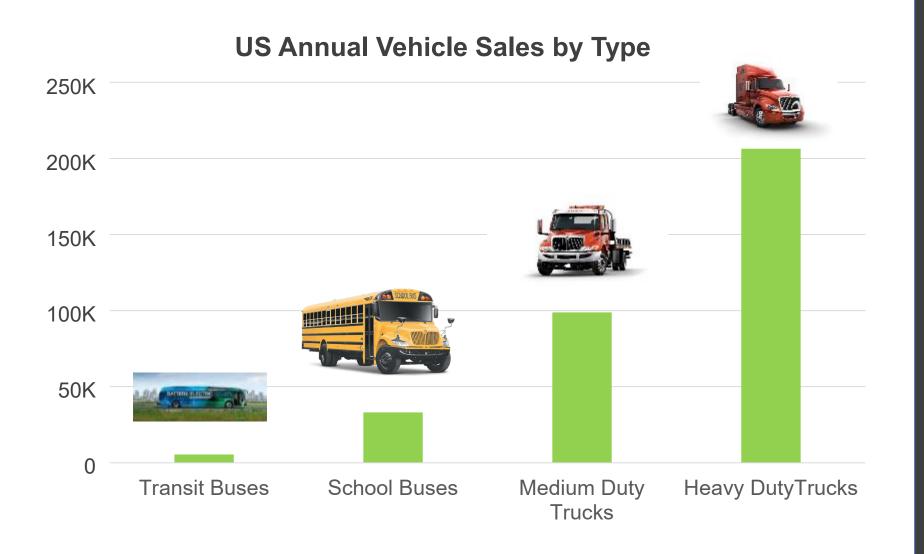




As Electric Vehicle Volume increases, Battery Costs continue to Decrease



Market for Electric Commercial Vehicles



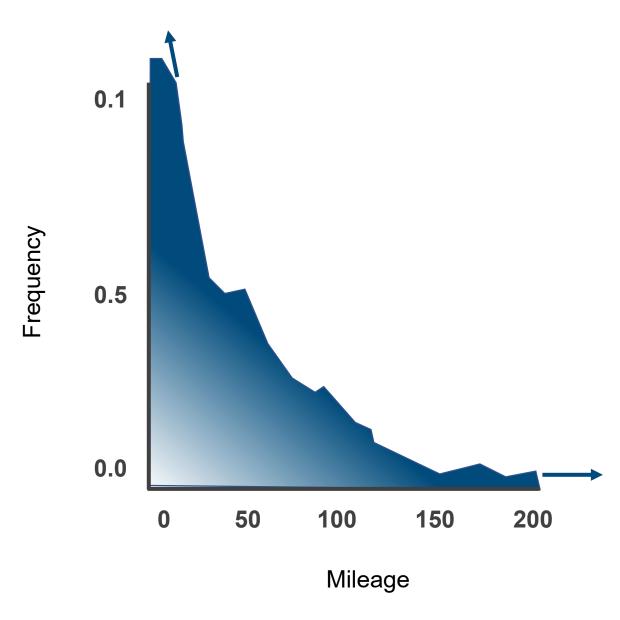
Electric Vehicle Adoption is already happening with **US Transit** Buses, but the larger market for electrification is with other Commercial **Vehicles**

Why School Bus is a Good Fit

- Low average daily mileage: 60 to 70 miles
- Known, fixed route each day
- Return back to same location each day
- Possible to charge mid-day
- Start & Stop operation
- High availability of grant funding







DAILY ROUTE DRIVEN FOR SCHOOL BUS

Navistar School Bus > 26,000 lb

Daily Mileage Distribution



2018 chargE Roadshow Customer Categories



Early Adopters

- Truly wants to be green
- Interested in latest technology
- Considering or already has alternative fuel buses

Volunteered Owner

- Forced to take technology due to funding/school board
- Risk averse to new technology

Laggards

- Wants others to test the technology first
- Infrastructure scares them
- Concerned about initial acquisition cost

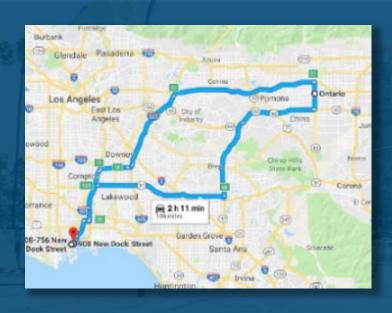


Navistar's Path to Electric Success













Route Simulation

Grant Opportunities

Battery Options









NAVISTAR'S APPROACH TO ELECTRIFICATION IMPLEMENTATION 4C'S

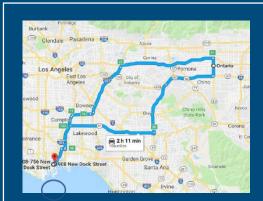
Work with Customer Through Entire EV Procurement and Implementation

CONSULTING

CONSTRUCTING

CHARGING

CONNECTING





Route Simulation to determine EV requirements and efficiencies

Share EV Funding Opportunities



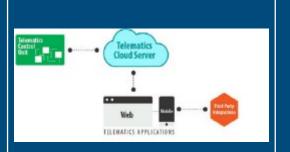


Configuring and Building Trucks and Buses in Navistar Facilities





Provide Requirements of charger, infrastructure and assist in charger installation





Monitor and communicate EV vehicle performance with telematics and assist through dealer network