



Altec Green Fleet

HTUF 2009

Advancements in Plug- in Technology for Trucks



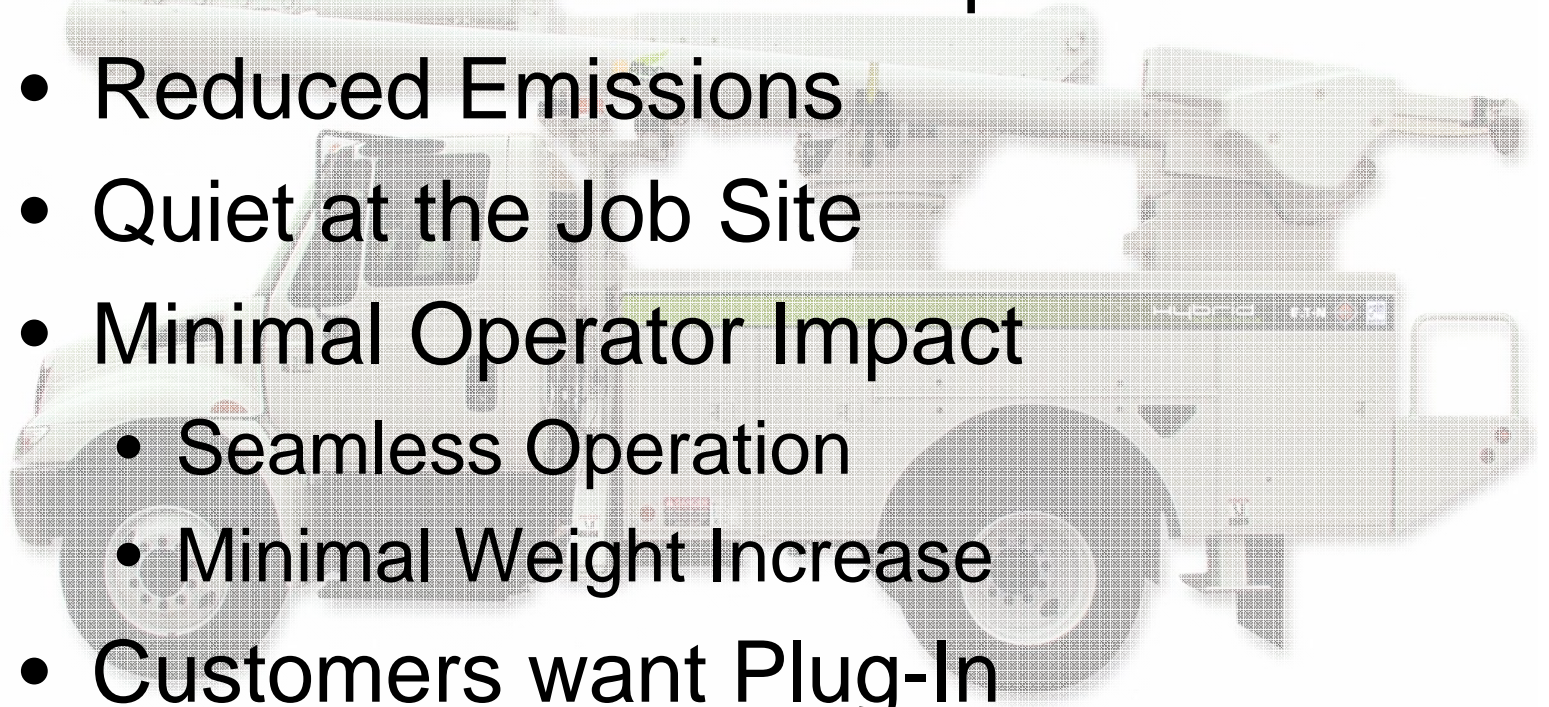
Thanks to the Utility Working Group





Original HTUF Learning

- Reduced Fuel Consumption
- Reduced Emissions
- Quiet at the Job Site
- Minimal Operator Impact
 - Seamless Operation
 - Minimal Weight Increase
- Customers want Plug-In





Eaton/Ford PHEV





Altec JEMS™

Jobsite Energy Management System

- Azure Dynamics Hardware/Software
- Mild Hybrid
- Retrofit-ability
- Cab Comfort
- Plug-in Option





Altec JEMS™

- Key Return On Investment Factors
 - Price of Fuel
 - Acquisition Price
 - Battery Technology
 - Battery Capacity
 - Time at Jobsite
 - Electric Load at Jobsite
 - 45 minutes of hydraulic load
 - 4 hours of cab comfort
 - 4 hours of DC/DC supply



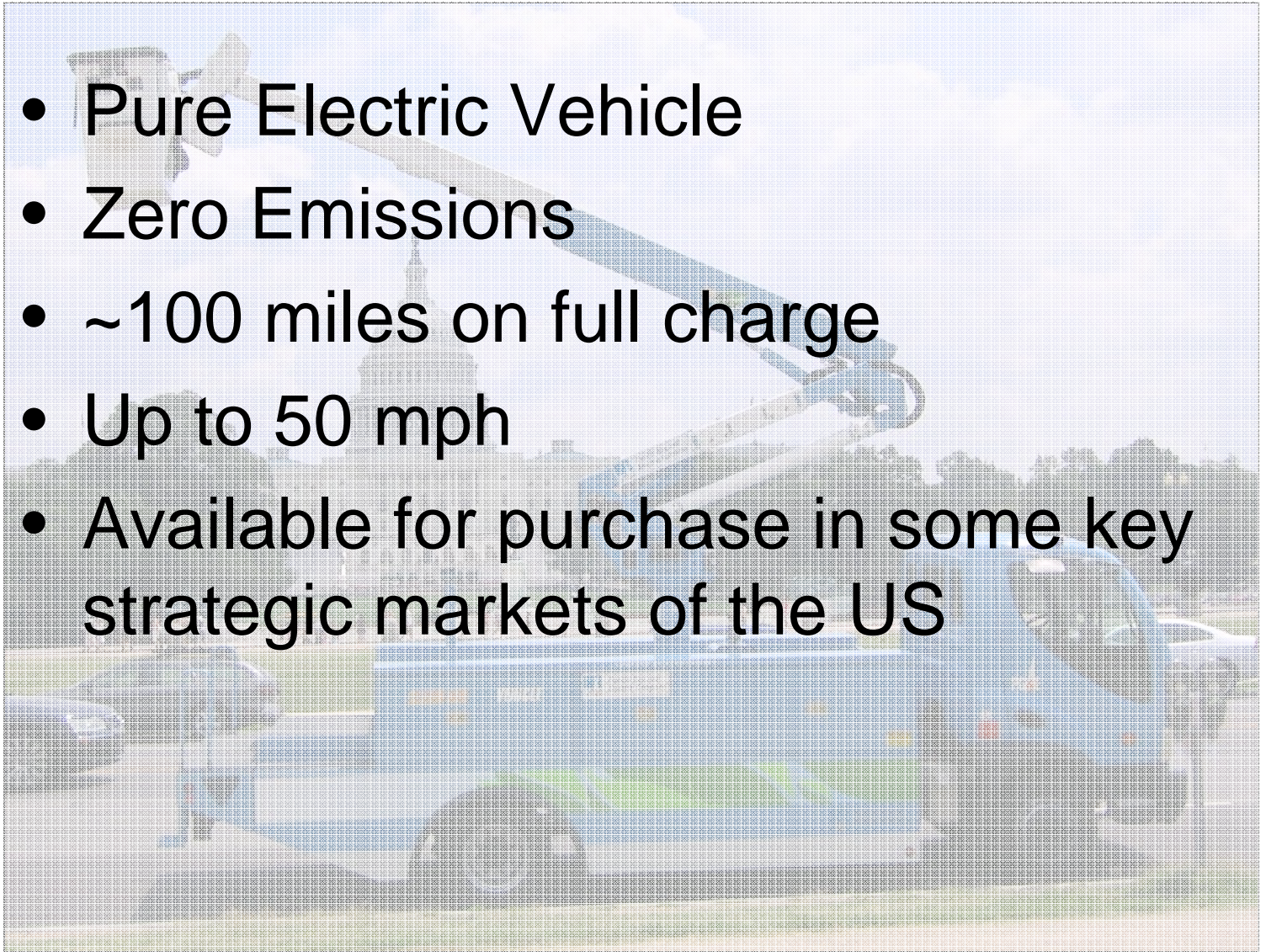
Smith Electric Vehicles





Smith Electric Vehicles

- Pure Electric Vehicle
- Zero Emissions
- ~100 miles on full charge
- Up to 50 mph
- Available for purchase in some key strategic markets of the US





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