Electric School Bus Conversions and Demonstration



September 3, 2015 Clean Fuels Advisory Group Meeting



Electric School Bus Demonstration

- Repower and demonstrate up to 6 converted electric buses
 - SoCal and NorCal
 - 1 year demonstrations
 - Vehicle to Grid capability assessment
 - CEC Funds SCE & PG&E Partnership
- Lower fuel and maintenance costs
- Zero Emissions





Diesel School Bus Conversion

- Conversion by Transpower
 - Electric Drive System
 - Lithium Iron Phosphate Batteries 111 kWh
 - Bidirectional charger/grid interface software



- Anticipated Nov 2015
- Demonstration SCAB
 - Torrance School District
 - Anticipated Feb 2016





Next Steps

- Evaluate performance
 - Key parameters
 - Electrical energy supply
 - Distance travelled
 - Route(s)
 - Beginning and Ending SOC
 - Operational reliability of electric drive and V2G



- Provide demonstration opportunity to other school districts
- Consider larger scale program with OEMs