

Electric Bus Demonstration



Transportation Committee – April 13, 2015

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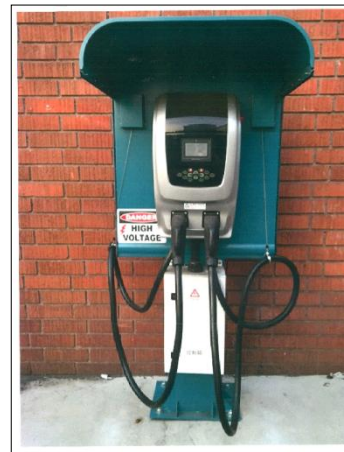
Current Advanced Technology

- Hybrid Diesel/Electric
 - First hybrid in 2002
 - 132 hybrids, 15% of fleet
 - Diesel engine
 - Increased MPG
 - Lower emissions
 - Quieter



Electric bus technology

- No engine, no emissions
- On-board energy storage
- Brake regeneration
- Charging
 - Short-range, quick charge
 - Pantograph
 - Inductive – overhead or roadbed
 - Long-range, slow charge
 - Garage plug-in



Next steps

- Site Demonstrations
- Maintenance evaluation
- Feasibility study
- Assess infrastructure



Demonstrations

- Three manufacturers
 - New Flyer April 20-24 (Earth Day)
 - Proterra May 11-15
 - BYD May 18-22
- Opportunities to ride
 - 1:30-4:00, Wednesday, April 22, Robert Street Offices
- Weekly schedule
 - Tuesday: Elected officials and stakeholder tours
 - Tuesday and Wednesday: In service
 - Thursday: Bus operations review





Questions?