

Ecoliner Electric Bus Project



Foothill Transit
GOING GOOD PLACES

Foothill Transit: Public/Private Partnership

Joint Powers Authority

- 22 member cities
- Los Angeles County

Privately Contracted

- Administration
- Operations and maintenance



Service Profile



San Gabriel and Pomona Valleys
14 million passenger boardings
34 fixed-route bus lines



Foothill Transit Fleet Makeup

288 CNG

17 Diesel

3 Electric



The Journey to All-Electric



- Operate in South Coast Air Basin
- Pending CARB ZEB Rule
- Agency Mission Statement: **Innovation**



Project Funding: ARRA (2009)



ARRA 2009

- \$1.2M per bus (3)
- \$1M per charger (2)

\$6.5 M TOTAL funding



Electric Bus Innovation



- Zero emissions
- 30 mile range
- 10 minute recharge
- 90% reduction in fuel costs
- Lower maintenance costs
- Industry's quietest drive system
- 90% regenerative braking recapture



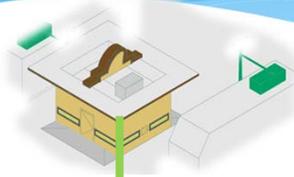
The System



- 2010 in-service deployment
- Line 291
- 16.1 mile route (loop)
- 140 mi/day
- Mid-route charging station
- 2-3 minute "top off"
- Potential for 24 hour operation



Charging Station Configuration



(2) AeroVironment 500 kw chargers



Autonomous Overhead Charge Arm



Decreased Maintenance Costs

- No engine
- Extended brake life
- Composite body
- No major overhauls
- No time spent in fueling queue



Electric Bus Program: Next Steps



\$10.2M TIGGER 2 Funding
12 more Ecoliner buses to fully electrify Line 291
Total of 15 Ecoliners



Contact Information

Roland Cordero
MVT Director/Electric Bus Project Manager
626-931-7246
rcordero@foothilltransit.org

