









Proterra Electric Bus

Lion Electric LionM Minibus

Phoenix Motorcars Zeus 400

Micro Bird DS-Series Paratransit

Large Vans







Lightning Electric Ford Transit Passenger Van

Greenpower EV Star ADA

Nissan Leaf (in King County Metro's Metropool Fleet Share)

California Air Resources Board Innovative Clean Transit Regulation

- Requires all public agencies to gradually transition to a 100% zero-emissions bus fleet
 - Includes paratransit and community transit agencies
- Applies to all transit agencies that own, operate, or lease buses with a gross vehicle weighting greater than 14,000 lbs
- Includes cutaway buses
 - Requirements for cutaway buses do not start until 2026
- Exemptions if vehicles are not available
- Agencies with paratransit in their rollout plan: Fresno Area Express, Golden Empire
 Transit District, Orange County Transportation Authority, Riverside Transit Agency, San
 Mateo County Transit District, SunLine Transit Agency

4

Community Bridges Lift Line - Watsonville, CA

- Lift Line Paratransit Dial-A-Ride Electric
 Vehicle Transition Program
- Pilot program supported by CARB
- Pilot runs from 2018 2023
- CARB grant of \$508,975
- Replaced two gas-powered shuttles with two EV shuttles
- Adding a third EV ADA shuttle bus



5

Société de transport de Montréal Electric Minibus Demonstration Pilot – Montreal, QC

- STM testing an electric, long-range minibus for paratransit operations
- G5e model from supplier Girardin Blue Bird
- 200 km expected range
- 10-hour recharge time or 3 hours with a DC Fast Charger
- \$390,000 purchase price



6

Míocar - San Joaquin Valley, CA

 Míocar is an an electric, rural, affordable carsharing pilot with accompanying charging stations placed near low-income households in the San Joaquin Valley



7

Cost

Vehicle Model	Cost - Electric	Range - Electric
40-Foot Bus	\$750,000 - \$1 Million	92-329 miles*
Cutaways and Small Buses	\$230,000 – \$390,000	75-170 miles
Large Vans	\$170,000	120-190 miles
Passenger Vehicles	\$31,000 - \$40,000	149-259 miles

^{*}Variation comes from various bus models with different engine capacity

Charger	Price	Installation Costs
Depot Bus Charger	\$50,000	\$17,000
Fast Charger - Bus	\$495,000	\$202,000
Level 2 Charger	\$400 - \$6500	\$600 - \$12,000
DC Fast Charger	\$10,000 - \$40,000	\$4,000 - \$50,000

3

Thank you! Sophia Constantine sconstantine@nelsonnygaard.com