



Zero Emission Fleet Update

November 2024

CapMetro's Sustainability Commitment

The best thing we can do for our environment is get people out of cars and onto public transit.

- The next best thing we can do is make transit as clean as possible.



Fifty people taking transit and compared to fifty cars on the road.

CapMetro Zero Emission Fleet Commitments

- CapMetro's Sustainability Vision Plan includes reaching net-zero carbon emissions by 2040.
- CapMetro will achieve its sustainability goals through various initiatives in different areas of action.
- Leader in the inclusion of zero-emission vehicles in its fleet.
 - In 2021, CapMetro initiated two contracts to allow us to purchase battery electric purchases in 2021 (the largest BEB purchase in the country at the time)
 - Leveraged two manufacturers to utilize differing technologies (Proterra & New Flyer).

Battery Electric Performance & Availability

Factors impacting BEB performance:



Workforce



Topography



Weather



Size of Service Area
& Distance of Routes



Range



Charging
Equipment



Reliability



Vehicle
Availability

State of the Industry

- As of now, CapMetro has 104 battery electric buses
 - 46 Proterra (Phoenix) buses / 58 New Flyer buses
- Fall 2023, Proterra declared Chapter 11 bankruptcy (Bus division sold to Phoenix Motor Cars)
- Uncertainty with warranty, service, and parts as Phoenix Motor Cars stabilizes their operation
- New Flyer Industry (NFI) is the largest remaining bus manufacturer in North America but has some financial struggles

Fleet Status

- Due to delays in infrastructure, specifically construction of new Park & Rides and end-of-line charging, we can only support the daily use of around 60 electric buses.
- New Flyer provides a dependable service and support program, including parts supply, and to ensure minimal service interruptions. We are prioritizing these vehicles for service.
- As reported in the November Operations Committee meeting, we are temporarily parking 46 Phoenix(Proterra) buses.
 - We negotiated a one-year warranty delay on the stored buses

What This Means

- CapMetro is committed to providing an all-electric fleet for the new Pleasant Valley and Expo Center Rapid Lines. This is required as part of the FTA grant.
- Both end-of-line and depot charging will be necessary to support the all-electric service.
 - We have the infrastructure to operate about 60 battery-electric buses with the completion of additional depot charging infrastructure at South Ops.
 - End-of-Line charging at Goodnight Ranch (*final design/permitting*) and Expo Center (*under construction*) Park & Rides will be operational after initial Rapid service begins.
- CapMetro is prioritizing providing service reliability and will start the initial Rapid service utilizing clean diesel buses.
- To utilize clean diesel buses for PV/Expo, CapMetro will have to utilize Battery Electric buses to backfill them.