CapMetro

Transition to Technology of Choice

CapMetro Sustainability Plan Update

CapMetro's Sustainability Commitment

The most environmentally-friendly thing our community can do is get people out of single occupancy cars and traffic, and into transit.

The second thing we can do, is make the transit as clean as possible.



Sustainability Vision Plan

- CapMetro's Sustainability Vision Plan includes a goal of reaching net-zero carbon emissions by 2040.
- CapMetro will reach this goal using a variety of initiatives across action areas.
- A change in the strategies we use to reach a goal does not change the overall goal.

Sustainability Vision Plan Action Areas

Energy: Conservation, Efficiency, Renewables

Sustainable and Zero
Emission Fleet

Water and Natural World

Zero Waste, Natural Resource Management

Green Building and Infrastructure

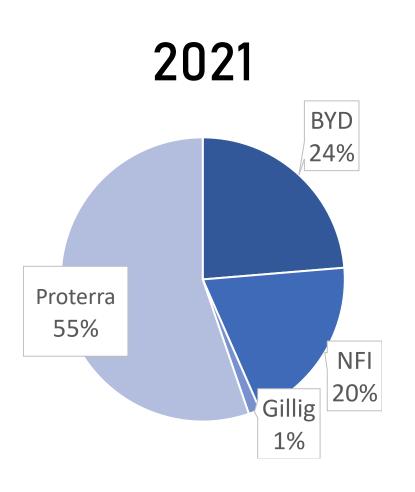
Active Transportation

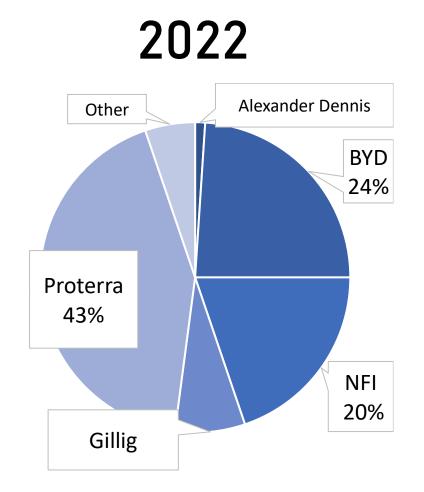
Environmental and Sustainability Management

State of the U.S. BEB Industry & Impact to CapMetro



Percent Battery Electric Buses Deployed by Original Equipment Manufacturer (OEM) (NTD Data)







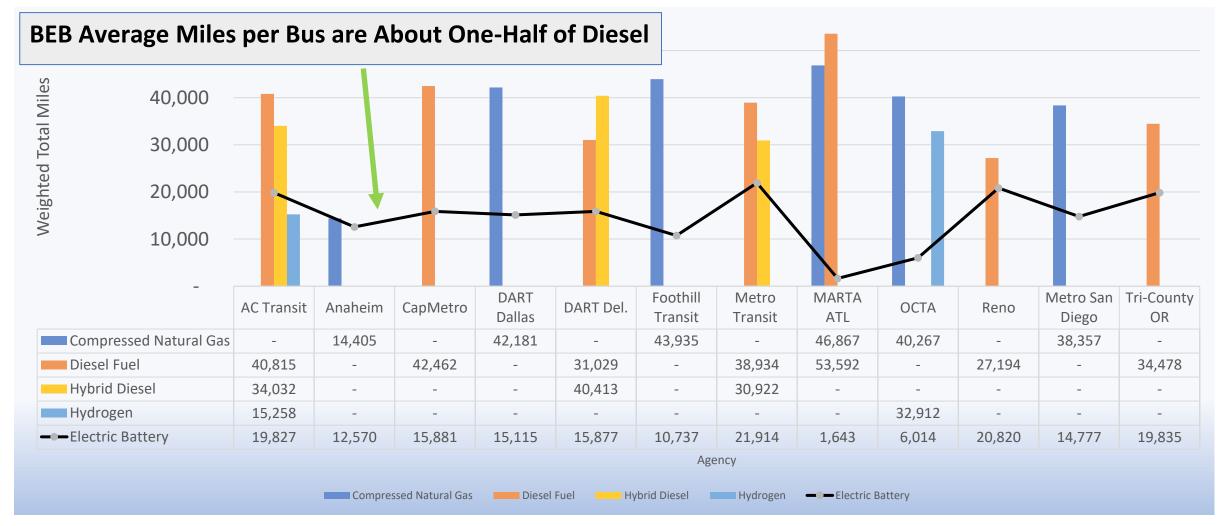


State of the industry

- Proterra bankruptcy uncertainty with warranty, service, parts, software
- Phoenix Motor Cars not yet viable, no battery contract, vehicle software
- Camber and Volvo spin-offs not yet viable, no charger service
- New Flyer financial struggles
- Lack of competition (ENC and Nova have left the market)
- Inflation and supply chain issues
- Long lead times (18-24 months to build a bus)
- Construction delays, long lead times for critical equipment

Battery Electric Buses are more expensive, harder to get (more competition among only a few manufacturers), and require a more comprehensive operational approach due to their complex systems and battery management needs.

Average Miles per Active Bus (Based on NTD Data at 12 Agencies)





BEB Percent Availability by Year and Peer Agency

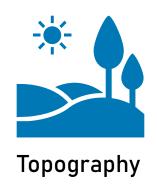




Battery Electric Performance & Availability

Factors impacting BEB performance:





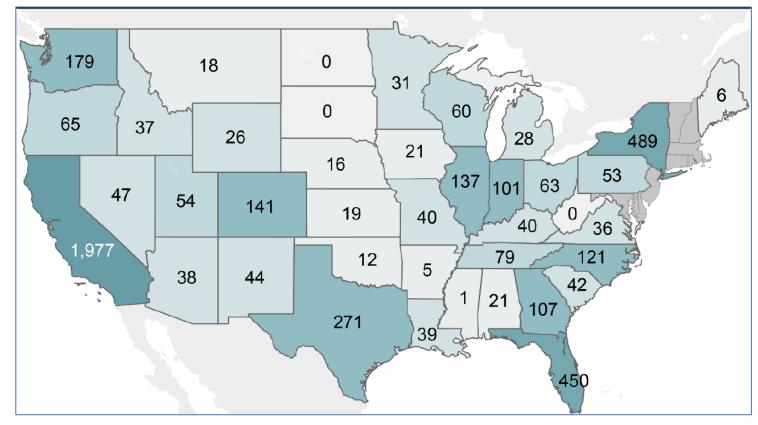




Battery Electric Buses are only viable to support 36% of CapMetro's service blocks.

Zero Emission Buses in the United States

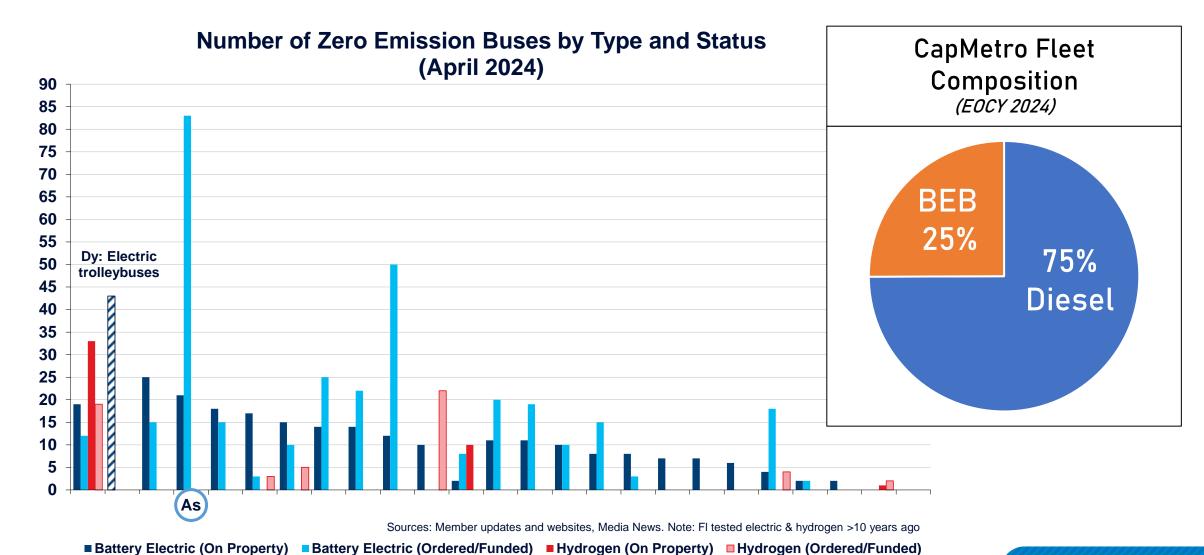
Year	BEB	FCEB
2023	5,775	161
2022	5,269	211
2021	3,168	129



Source: (CALSTART, 2024). Zeroing in on ZEBs https://calstart.org/zeroing-in-on-zebs-2024/



Zero Emissions Fleets: Electric Battery and Hydrogen Growing CapMetro has the highest number pending short-term





CapMetro is a member of the American Bus Benchmarking group, a consortium of medium-sized bus agencies in North America that benchmark performance and share experiences & best practices for fixed route and paratransit services. This data has been compiled by ABBG.



Looking Ahead

CapMetro's Sustainability Commitment

The most environmentally-friendly thing our community can do is get people out of single occupancy cars and traffic, and into transit.

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CapMetro's Sustainability Vision Plan includes a goal of reaching net-zero carbon emissions by 2040.

Under-construction Project Connect Rapid service will still ultimately be all-electric.



Pursuing our Commitments

- CapMetro will pursue a variety of solutions to meet sustainability goals considering performance, cost, reliability, availability, and more.
 - Options include Hybrid Electric and Hydrogen Fuel Cell Buses
 - Ongoing evaluation of vehicle and fuel availability/cost.
 - CapMetro's next regular vehicle procurement will be in late 2024 for late 2026 vehicle delivery
- CapMetro will continue leveraging efficient operations with our existing battery electric buses and infrastructure

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Thank you!