Gold Coast Transit District Zero Emission Bus (ZEB) Transition Center of Transportation and the **Environment (CTE) Scope Overview**





Our Mission GCTD's mission is to provide safe, responsive, convenient, efficient, and environmentally responsible public transportation that serves the diverse needs of our community.



GCTD's ZERO EMISSION BUS TRANSITION PLAN

Current Fleet







Standard Buses

- · Fixed-route service
- 40-ft (44) & 35-ft (17)
- CNG
- · Total of 61 active
- · 9.9 years avg age

Cutaways

- · Demand response
- 23-ft
- CNG
- 8 total
- 4 years avg age

MV-1 Vans

- · Demand response
- Unleaded gasoline and CNG
- 18 total
- · 4.3 years avg age



CARB's "ICT" RULE & WHAT IT MEANS?



In 2018, California Air Resources Board (CARB) "Innovative Clean Transit" Rule

GOAL: Transition to Zero Emissions by 2040

TRANSITION PLAN DUE BY 2023



Fuel Technology Comparison Best Overall Fit for Gold Coast Transit Fleet



















300-340 miles

Proven range (300 to 340 miles, with advanced fueling technology that can extend this range by almost double)



Significant reduction in vehicle weight and vehicle axle weight to maximize passenger loads



Fast refueling speeds comparable to conventional diesel and CNG buses



1:1 replacement of conventional buses enabling full flexibility for route planning and operations







In July of 2022 GCTD partnered with the Center of Transportation and the **Fnvironment and Bus Manufacturer New** Flyer on an \$12.1 million FTA Lo-No grant.

GCTD plans to leverage other funding for a total project of over \$16 million.



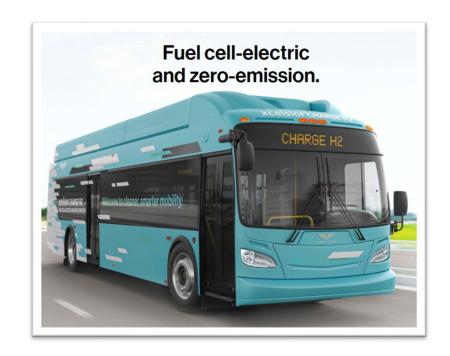






GCTD 2022 FTA Grant Award includes:

- Hydrogen Fueling Station
- 5 Hydrogen Fuel Cell Buses
- Workforce Training
- Facility Upgrades





The Center of Transportation and the Environment

 The Center for Transportation and the Environment (CTE) is a membersupported 501(c)(3) nonprofit organization that develops, promotes, and implements advanced transportation technologies, vehicles, and fuels that reduce environmental pollution and fossil fuel dependency.



The Center of Transportation and the **Environment**



Los Angeles County Metropolitan **Transportation Authority Zero-Emission Bus Master Plan Project**



City of Santa Monica Battery Electric **Bus Deployment**



Fuel Cell Electric Bus Commercialization Consortium





SunLine Center of Excellence



Timeline Item Description	Timeline Item Date
FTA Award & Project Partner Contracts	12/30/2022
Project Planning & Initiation	01/31/2023
Requirements Analysis	02/28/2023
Bus Procurement & Build	01/31/2025
Infrastructure Procurement & Build	01/31/2025
Bus & Infrastructure Deployment	01/31/2025
Deployment Validation	03/31/2026
Project Close-Out	06/30/2026
Project Management & Reporting	06/30/2026



Ojai | Oxnard | Port Hueneme | Ventura | County of Ventura GOLD COAST TRANSIT DISTRICT

CTE Scope of Work:

- Analysis & Planning
- Bus Procurement & Build
- Hydrogen Station Design & Build
- Bus and Station Deployment
- Deployment Validation
- Project Closeout
- Project Management & Control



CTE's quote is as follows:

Task	Description	Total
1	Project Planning	\$34,000
2	Bus Procurement & Build	\$32,000
3	Infrastructure Procurement, Design & Build	\$135,000
4	Bus & Infrastructure Deployment	\$35,000
5	Deployment Validation & KPI	\$95,000
6	Project Closeout	\$11,000
7	Project Management, Administration, Reporting & Control	\$222,000
TOTAL		\$564,000



| Port Hueneme | Ventura | County of Ventura GOLD COAST TRANSIT DISTRICT