Gold Coast Transit District Final ZEB Transition and Rollout Plan Presentation for GCTD Board of Directors





Ojai | Oxnard | Port Hueneme | Ventura | County of Ventura

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.

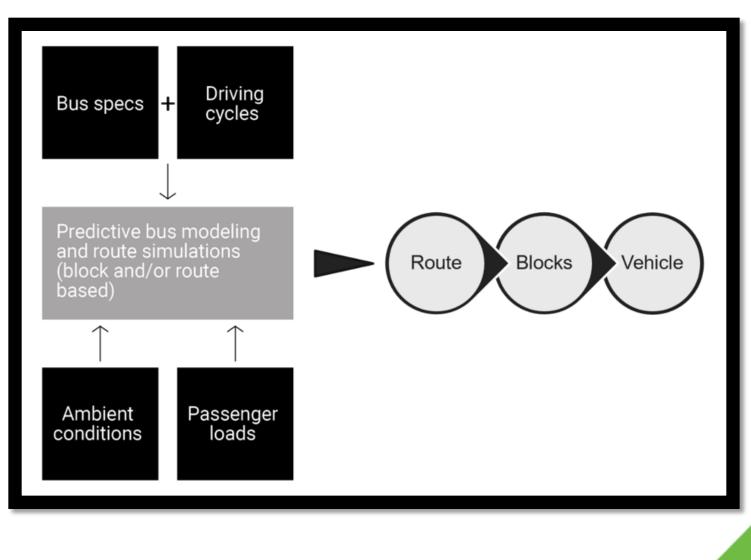


Zero-Emission Bus Rollout Plan

- To comply with the C.A.R.B. Innovative Clean Transit (ICT) Rule to transition to zero-emissions by 2040.
- GCTD has been working with Stantec in constructing this plan since August of 2021 with action items taken to the GCTD Board.
- GCTD Board accepted staff's recommendation and approved hydrogen fuel cell as the technology to power our buses in the future.
- GCTD Board was presented with draft report in November.
- The plan must be submitted to C.A.R.B. by June 30, 2023.
- GCTD is filing jointly with the City of Ojai.
- GCTD is bringing this action item to the Board for approval today.



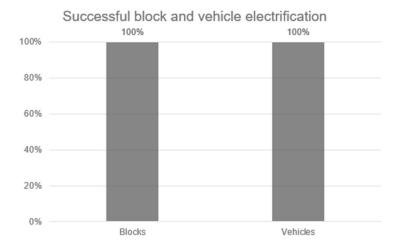
GCTD's ZERO EMISSION BUS TRANSITION PLAN



GOLDCOAST TRANSIT

GCTD's ZERO EMISSION BUS TRANSITION PLAN

Modeling results – Fixed Route Hydrogen



- All blocks successful
- All vehicle assignments successful

Vehicle type	Average fuel efficiency (mi/kg)
40-ft bus	7.20 mi/kg
35-ft bus	7.29 mi/kg
Overall	7.22 mi/kg



Fuel Technology Comparison Summary for Gold Coast Transit Fleet

Trade-Off	Fleet Concept A (BEB concept)	Fleet Concept B (FCEB concept)
Scheduling and planning	$\star\star\star$	***
Operations and dispatching	$\star\star$	$\star\star$
Training and agencywide adoption	$\star\star\star$	***
echnology availability/ OEMs/ procurement	$\star\star\star$	***
Depot infrastructure	$\star\star\star$	***
Other infrastructure	****	***
Other	$\star\star\star$	***
Overall best fit	$\star\star$	***



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)

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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





GCTD is receiving real time data from these transit agencies that are leading the U.S. in Hydrogen Fuel Cell bus roll-outs. Lessons learned from these deployments will help ensure that GCTD's roll-out will be successful.

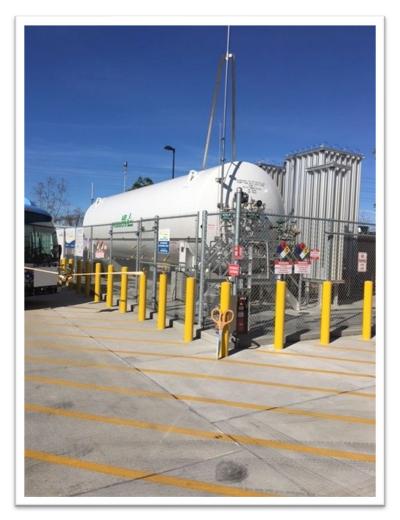








Hydrogen Fueling Station Model



- GCTD used OCTA's current pilot model.
- Trucked in hydrogen with the capability to service 50 buses and scalable to 100 buses.
- Allows GCTD to pivot regarding hydrogen supply and availability.





We want our service planned around the needs of our community..., not around the needs of our fleet.



QUESTIONS?

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