

Island Transit **H₂** Infrastructure Project

Design Build: Zero-Emissions Transition



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HATCH

Island Transit Intro: Team



Todd Morrow
Senior Project Manager



Tom Aichele
Maintenance & Facilities
Manager



Meghan Heppner
Assistant to the Executive
Director &
Clerk of the Board



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Hatch Intro: Team and Capabilities



Jeff Whiteman, PE
Project Manager



Mihir Bodarya P.Eng.
Deputy Project Manager



Mathew Post
H₂ Infrastructure Lead



Micah Silke
Procurement and
Contract Lead



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Island Transit Intro: Zero Emissions Transition

Current
State

- All-fossil-fuel transit fleet (including some hybrids)

Future Goal

- 100% zero-emissions transit fleet by 2040

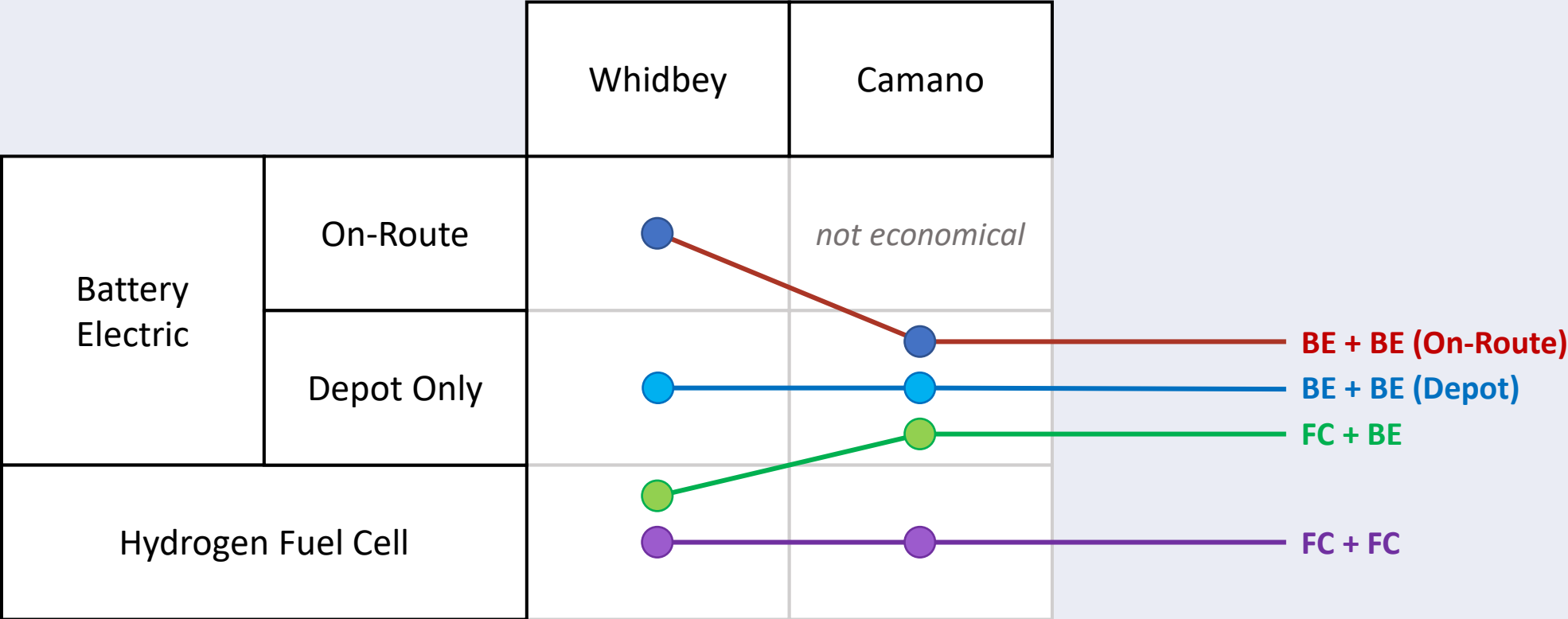


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Hatch Intro: Feasibility Study

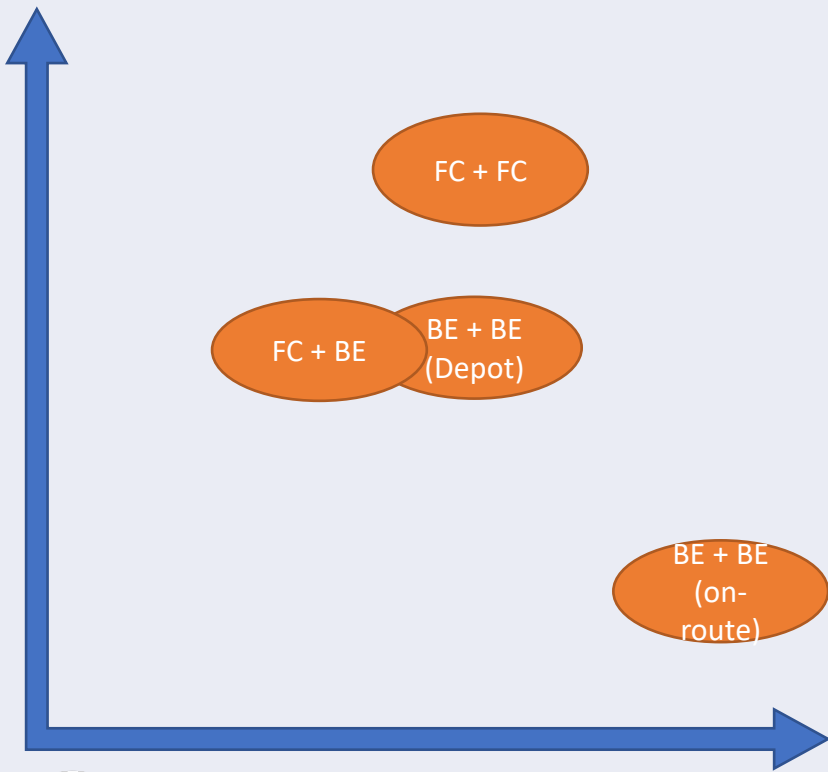


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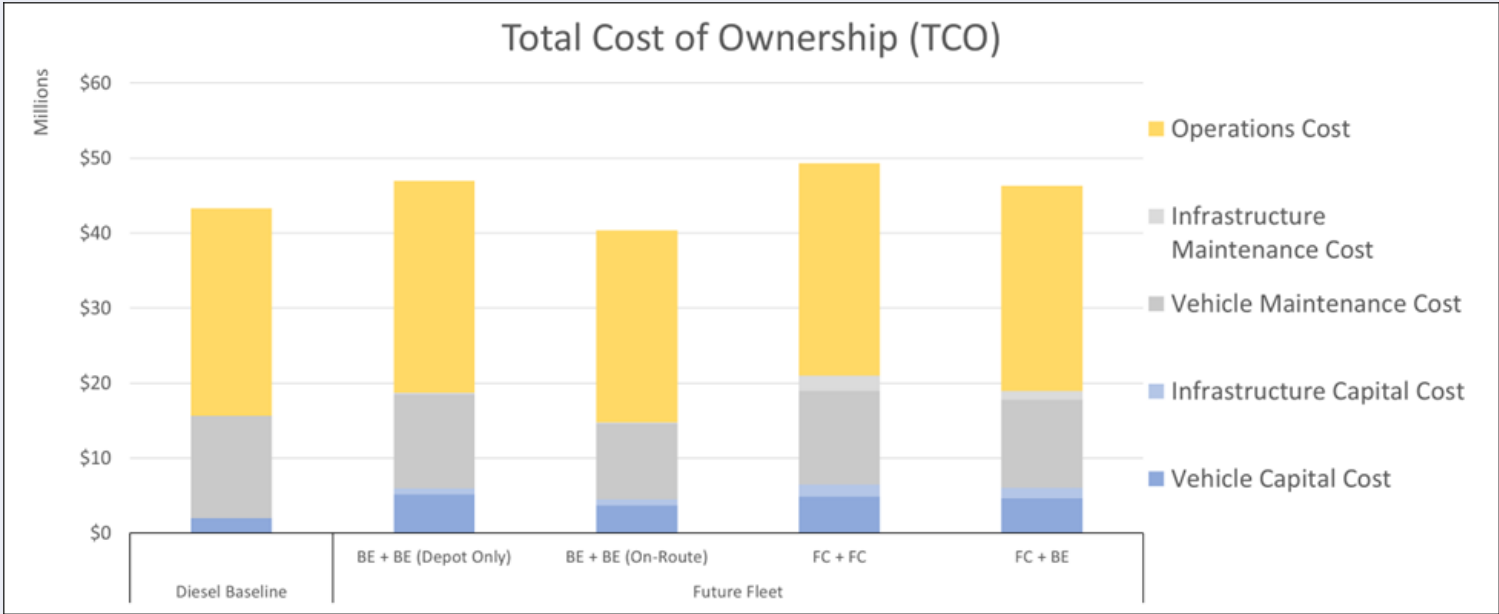


Hatch Intro: Feasibility Study

Lifecycle Cost



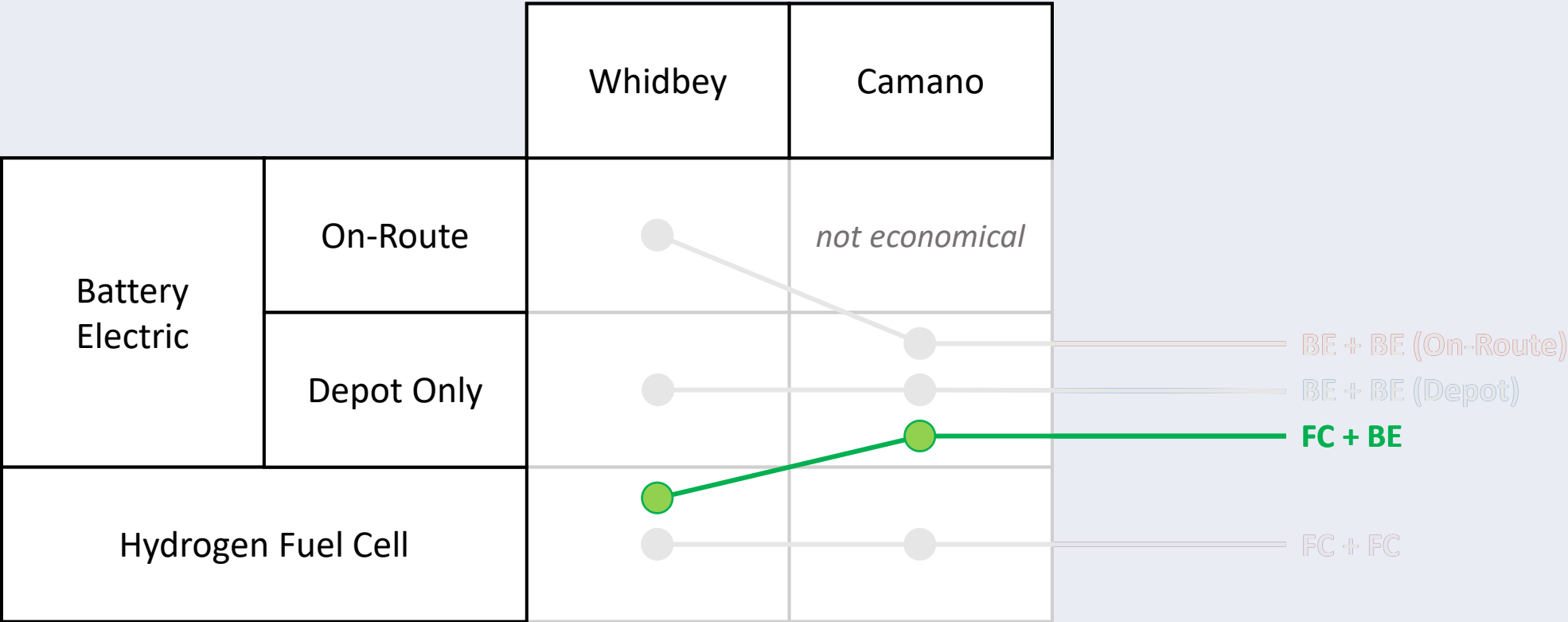
Efforts to Implement



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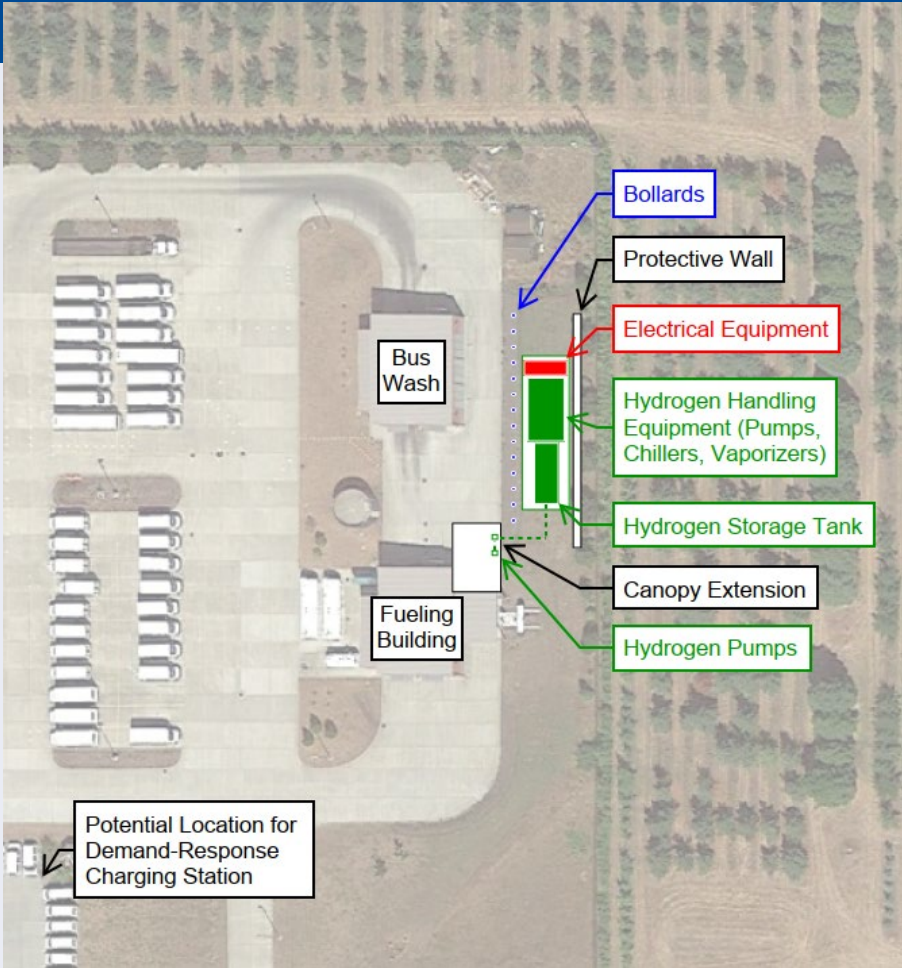
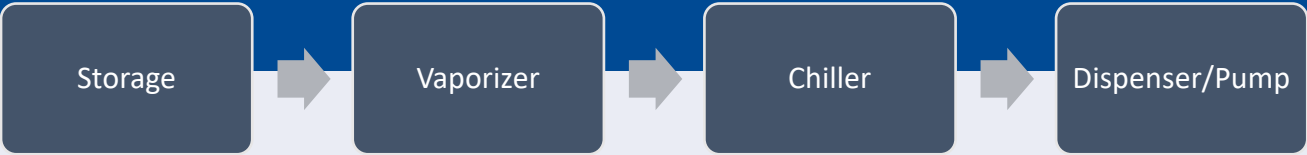
Hatch Intro: Preferred Scenario



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Conceptual Design



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Project Contract Documents



- Solicitation and Proposal Documents
- General Conditions: EJCDC D-700
- Supplementary Conditions
- Performance Requirements



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Developing performance-based requirements

FUNCTIONAL

Provide onsite fueling infrastructure to support Island Transit's fleet of H₂ busses

PERFORMANCE

Provide H₂ storage tank: 10,000-gallon, approximate capacity.

DESIGN SPEC

Install 10,000-gallon cylindrical liquid H₂ storage tank equipped with pressure relief devices in compliance with ASME BPVC



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Design-Build Maximizes Value To Stakeholders

Fast-Paced
Industry

Innovation in
Design &
Procurement

Proven
Success



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Example Design-Build H₂ Fueling Station

- Foothill Transit – West Covina, CA
- Commissioned in May of 2023
- Example of a successful Design-Build
- Gound-breaking refueling efficiency
 - 18 buses in 90 minutes
 - Back-to-Back
 - 19.1 kg in 6.5 min

FHT Hydrogen Station equipment - including the 25,000-gallon liquid hydrogen tank (background) and gaseous storage (foreground)



Hydrogen Dispenser at FHT - installed in-line with their current fueling equipment



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"It's a joy to ride but I know joy-riding is not allowed." Spoken like a veteran bus rider. Riding non-stop all day is not allowed. But this is different.

30 Year Bus Veteran Holds Current Title for Longest Dedicated Bus Rider

"Island transit was the key to it all, with its free transportation all over Whidbey Island. The drivers were especially friendly and helpful, and on time."

30 Year Bus Veteran Holds Current Title for Longest Dedicated Bus Rider



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Teaching the Next Generation to Ride the Bus

*"It's cleaner. There's less noise.
Everybody is well-behaved. And
it's free!"*

Teaching the Next Generation to Ride
the Bus



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Terry is a retired teacher, part-time firefighter, bike rider, and full-time bus rider.

The Adventures of a Coupeville Middle School Teacher

“The bus is very convenient, reliable, and free”.

Taking Public Transit Saves Money, Time, and the Planet – One Less Carbon Footprint at a Time.



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Diana has been using Island Transit since she was a kid. Now she is teaching her sons how to use the bus.

Bus Rider Teaches Others How to Use the Bus and Learn the Schedules

"It's a safe place for people to encounter those unlike themselves."

Diana Sievert-Wood, Whidbey Island
Commuter



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Rebekah is grateful for the safe, fare-free, friendly services Island Transit offers.

Rebekah is grateful for the bus service

“It's more than just a mode of transportation. It's community outreach and engagement.”

Safe, Friendly, Fare Free, and Friendly Bus Service



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Connie wants to save on fuel costs while helping the environment.

Welcome back Connie!

“Island Transit is more approachable.”

Taking the bus saves on fuel and is better for the environment



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"Without the bus, I'd be trapped at home, doing nothing," said Shallow, who now runs up to two miles, can swim one mile, and can lift 90 pounds. "The bus gets me out of the house for a break and forces me to do things on my own."

Camano Man's Road to Recovery Began with a Bus Ride

"I love the bus - it's a lifesaver!"

Ric Shallow, Camano Daily Rider



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