

Vessel with Voltage

Updating a Transit District Fleet with Hybrid Technology

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General Manager

Casco Bay Island Transit District

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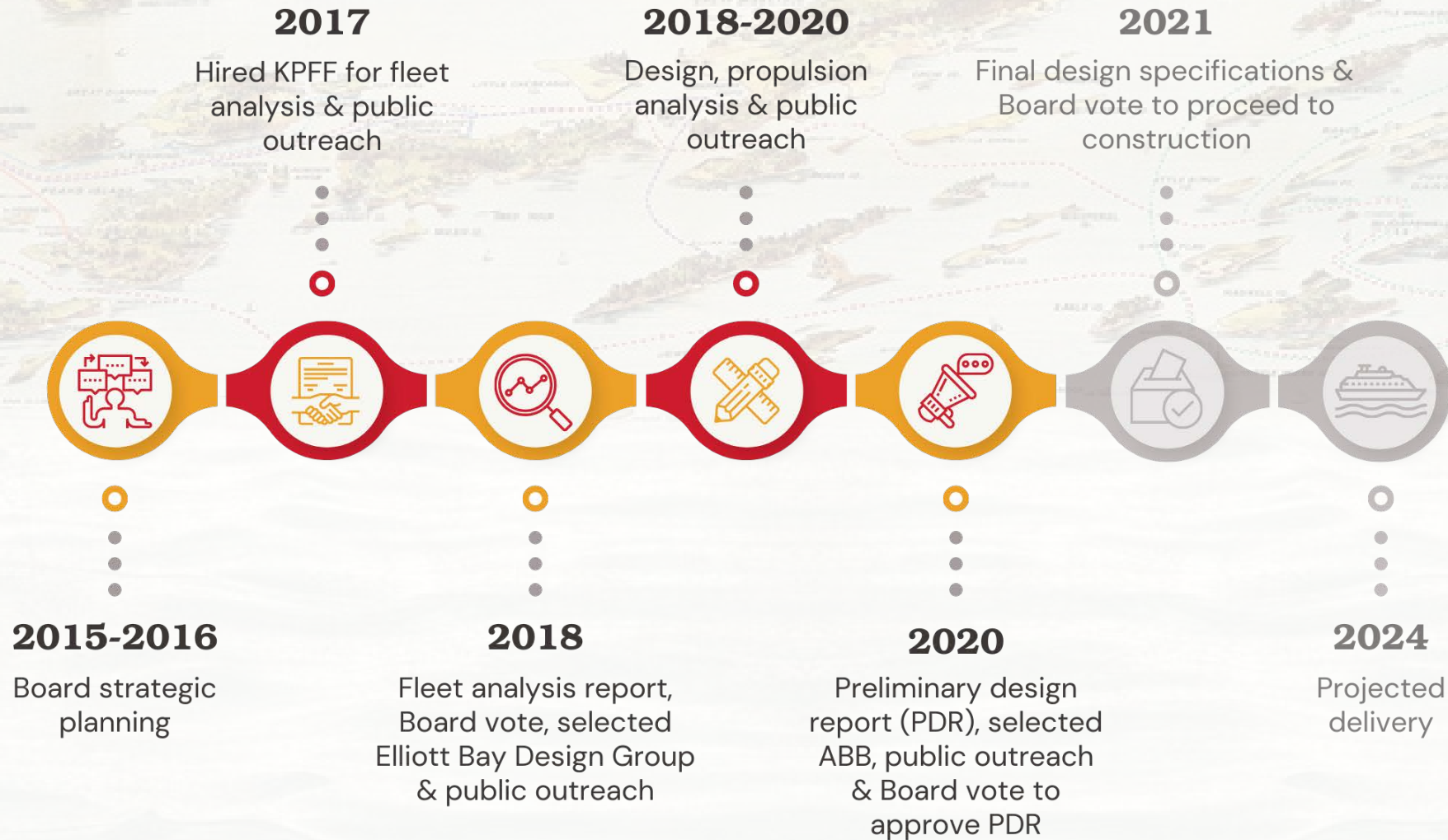


CBITD Peaks Island Service





Project Timeline



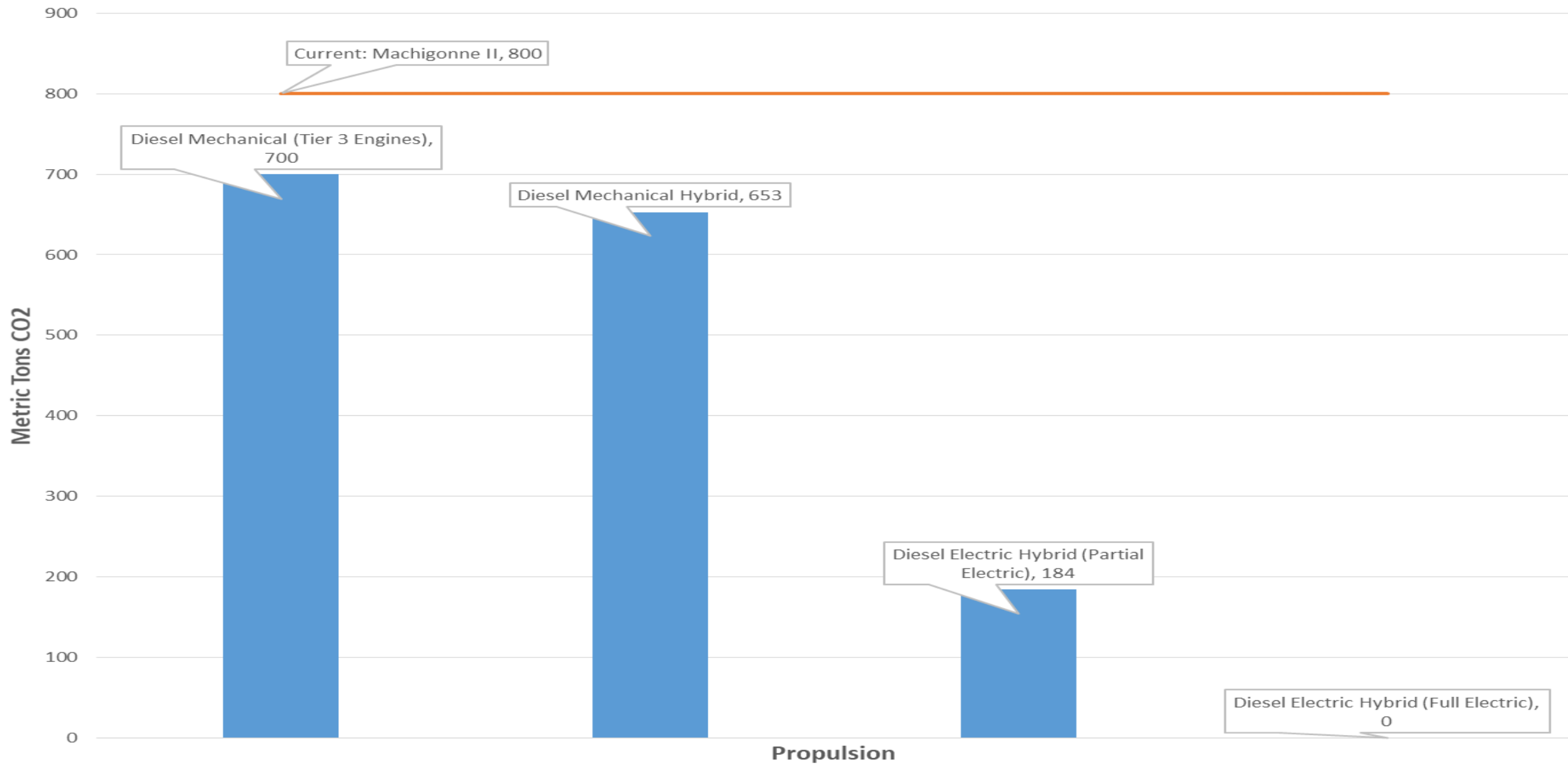
New Vessel Side A



New Vessel Side B

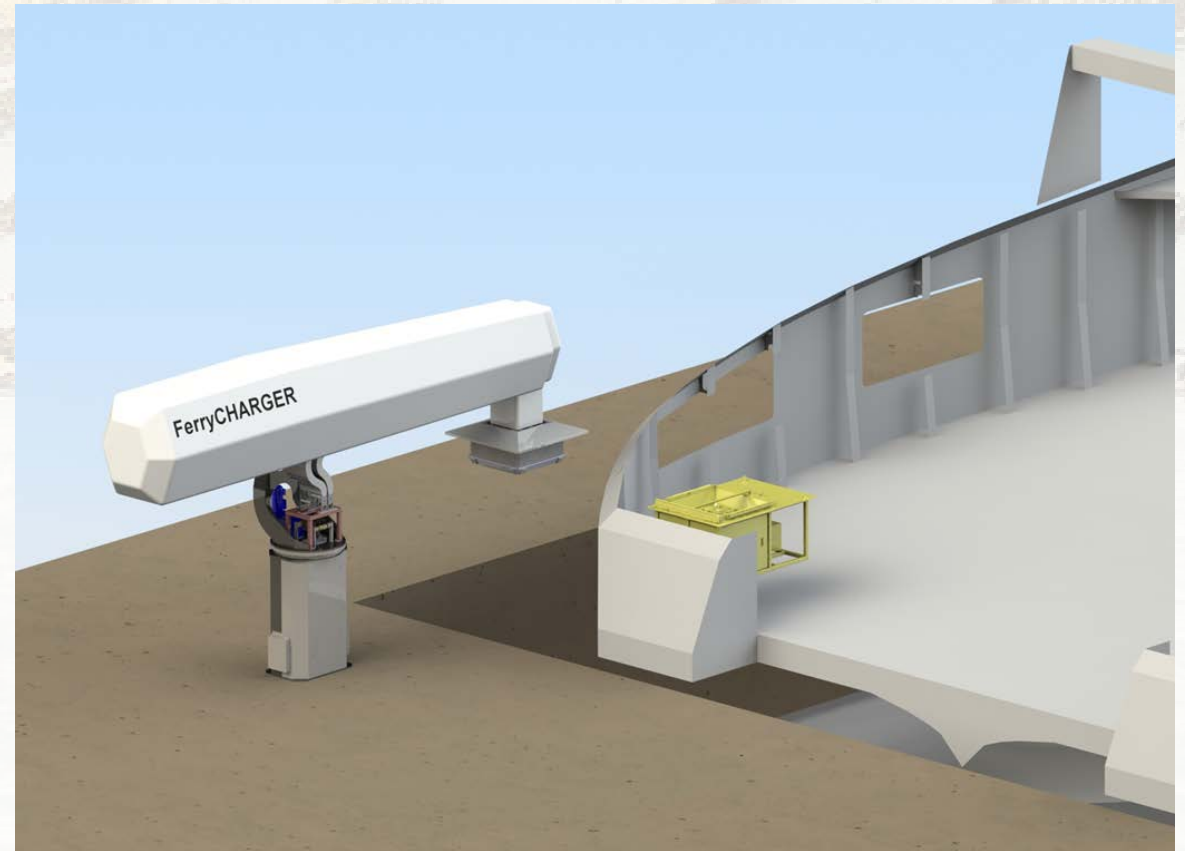


Propulsion System Annual Emissions



Shoreside Charging

- Goal: 10 year battery life
- 220 kWh is used each round trip
- Charging occurs only at Portland
- Challenges:
 - 10 minute charging window
 - Automated process with 30 sec set up
 - Getting power to site:
Charger requires 1.3MW
 - Peak demand rate issue

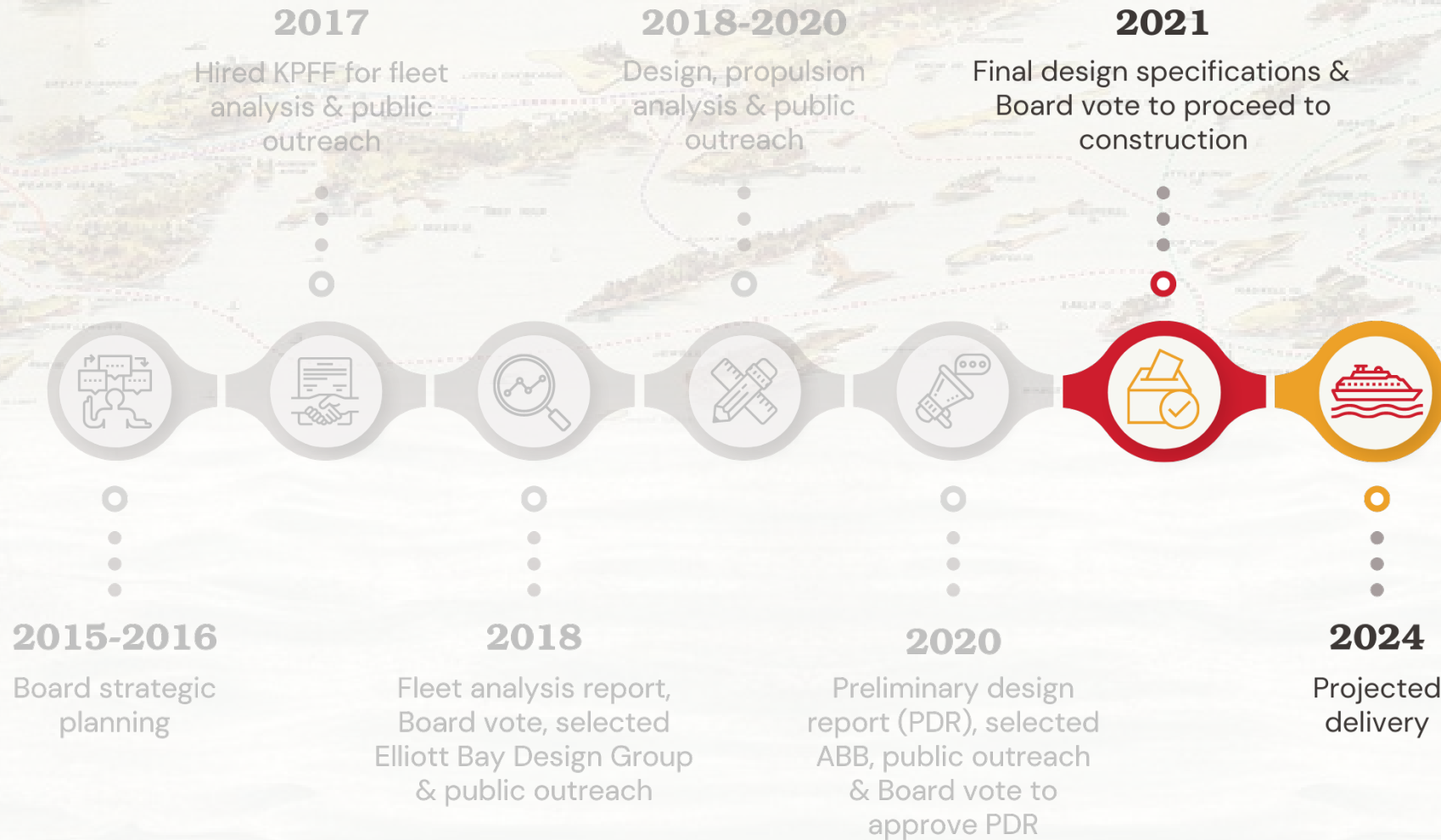




New Vessel Funding

- FTA urban discretionary
- FTA urban formula
- MaineDOT
- VW Settlement (via MaineDOT)
- MARAD
- City of Portland
- CBITD

Looking Ahead



Thank You!

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