JOINT INTERIM STANDING COMMITTEE ON GROWTH AND INFRASTRUCTURE

RTC Washoe May 29, 2024

> RTC OVERVIEW

- RTC RIDE (fixed-route service)
 - 20 routes (2 BRT), 68 Buses
 - 15,000 trips a day
- RTC ACCESS (paratransit)
 - ADA service for people whose disability prevents them from using fixed-route transit service
- RTC FlexRIDE
 - Curbside-to-curbside transit service available in select areas of Sparks/Spanish Springs, Somersett/Verdi, North Valleys, and South Meadows
- Fuels Used
 - Battery Electric, Hybrid (biodiesel-battery), CNG, Hydrogen Fuel Cell

> FACILITY OVERVIEW

Villanova Facility

- 42 Hybrid Buses
- 23 Electric Proterra Transit Buses

Sutro Facility

- 46 CNG Cutaways
- 10 gasoline minivans
- Hydrogen Fueling Station
- 2 Hydrogen buses, 6 more in 2024

Transit Centers

- 4th Street Station
 - Overhead Fast Chargers
- Centennial Plaza
 - Overhead fast charger
- Meadowood Mall
 - Future Charging in Design

> PUBLIC TRANSPORTATION: REBUILD PUBLIC TRANSPORTATION

Culture of Innovation

Vehicles, software, services

Early Adopter of BEB buses

- Four 2013 Proterra
- 17 2018 Proterra
- Two 2020 Proterra

> BATTERY ELECTRIC BUS BENEFITS (PROS)

- Lower power costs
- Lower expected maintenance costs
- Zero emissions
- Health benefits
- Quiet

> BATTERY ELECTRIC BUS CONS

- Electrical infrastructure upgrades
- Demand charges and energy management
- Supply chain issues
- Limited range/range anxiety
- Limited areas for application

> WHY HYDROGEN?

Vehicle Range

- Electric: 90 miles (125-150 miles, newer generation
- Hydrogen: 300 miles

Scalability

 Generally, HFCE buses have more upfront cost and less incremental costs than BEB

Fueling time

7-10 minutes vs. overnight charging (4-5 hours)

> RTC PLAN - FUNDING

- 2021 Federal Low-No Grant
 - Two buses
 - Fueling infrastructure for up to 10 vehicles (5 per hour)
 - \$6.8 million
- 2023 Federal Low-No Grant
 - Six buses
 - Fueling expansion for up to 50 vehicles (10 per hour)
 - VR training platform
 - \$8.8 million
- Facility to be located at our current ACCESS Facility/
 Maintenance Sutro Facility

> RTC PLAN - PARTNERS

- New Flyer (Vehicle Manufacturer)
- Ballard Power Systems (Fuel Cell)
- Krueger Transport (Consultant)
- Air Products (Fuel Provider)
- Marathon (Facility Construction)

> CURRENT AND NEXT STEPS

- First vehicles arrived in December
- Fueling facility finished later this year
- Long term combined facility
- Mixed fleet of hydrogen and electric moving forward

THANK YOU

Jim Gee
Director of Public Transportation and Operations
jgee@rtcwashoe.com
(775) 335-0020

Building A Better Community Through Quality Transportation

rtcwashoe.com