

Public Transit

ELECTRIFICATION PLAN
PRESENTATION

FEBRUARY 2021





E-Buses

The Path to Full electrification

- 4 consecutive Low and No awards. VW funds awarded for 2 large e-buses.
 - 14 total in service or ordered
 - \$10,039,312 total funds (80 Fed/20 State, Local)
- “Electrification Plan” in CY 2021
 - Performance to date (VT and National)
 - Vehicle costs – initial unit and operational
 - Funding scenarios
 - Operations and Maintenance
 - Risk assessment

Electrification Scope of Work



To develop a Battery-Electric Bus Transition Plan. The Plan will guide early implementation steps consisting of design, construction, fleet acquisition, and other activities that develop the blueprints for future standards and requirement for buses, energy storage systems, charging infrastructure, electric-utility modification, and operations of electric buses.

The Plan should include details on the existing public transit fleet and operations plus future needs organized by the following topics.

- Technology Overview (Electric vehicles, batteries, and charging)
- Fleet Characteristics
- Operations
- Facilities
- Charging
- Service Model
- Timing/Scheduling of transition
- Procurement of vehicles and related costs
- IT Needs
- Asset Management and Replacement
- Training

The plan should use the following time horizons for the transition.

By 2025 – 10% of the vehicle fleet transitioned

By 2050 – 100%

Electrification Deliverables



- 1. Electrification Plan with cited components**
- 2. Model or tool to assess budgetary and operational impacts (x amount of funds over x number of years).**
- 3. GHG Impact Analysis**
- 4. A “living document” that can be updated and used over the next 5-10 years.**

THANK YOU

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