King County Metro: Moving to Zero Emission Transportation

Regional Transit Committee April 20, 2022





Today's Topics

- Zero Emissions targets
- Where we are today
- What's next
- Non-bus fleets



Metro Policy and Climate Goals – Metro Operations

Strategic Climate Action Plan Targets for Metro Operations



REDUCTION IN GREENHOUSE GAS EMISSIONS FROM FLEET BELOW 2017 LEVELS BY 2030



ZERO-EMISSION REVENUE BUS FLEET BY 2035



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100%

light-duty electric vehicle (ev) by 2030



INCREASE IN UTILIZATION OF TROLLEYS ON WEEKENDS BY 2025

Metro Connects

Metro Connects will confront climate change by transitioning to zero-emissions vehicles, powered by renewable energy, over the next 20 years.

Metro will use a phased approach to acquire battery-electric buses, convert operations, prepare the workforce, and build the necessary infrastructure to support a 100 percent zero-emissions bus fleet.

Strategic Plan Strategy

Reduce vehicle emissions in all of Metro's fleets through transition to zeroemissions, efficient operations, and other strategies.

Metro's Existing Bus Fleet

~1400 Buses Total

 Diesel-electric hybrids, trolleys and BEBs

• 195 Zero-Emission Buses

- **174** Electric Trolley Buses
- **21** Battery Electric Buses (BEBs)
 - 11 Short range on Routes 226 & 241

 10 Extended range (40 total to arrive this year; 140 mile range)



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South Base Test Facility is Open!







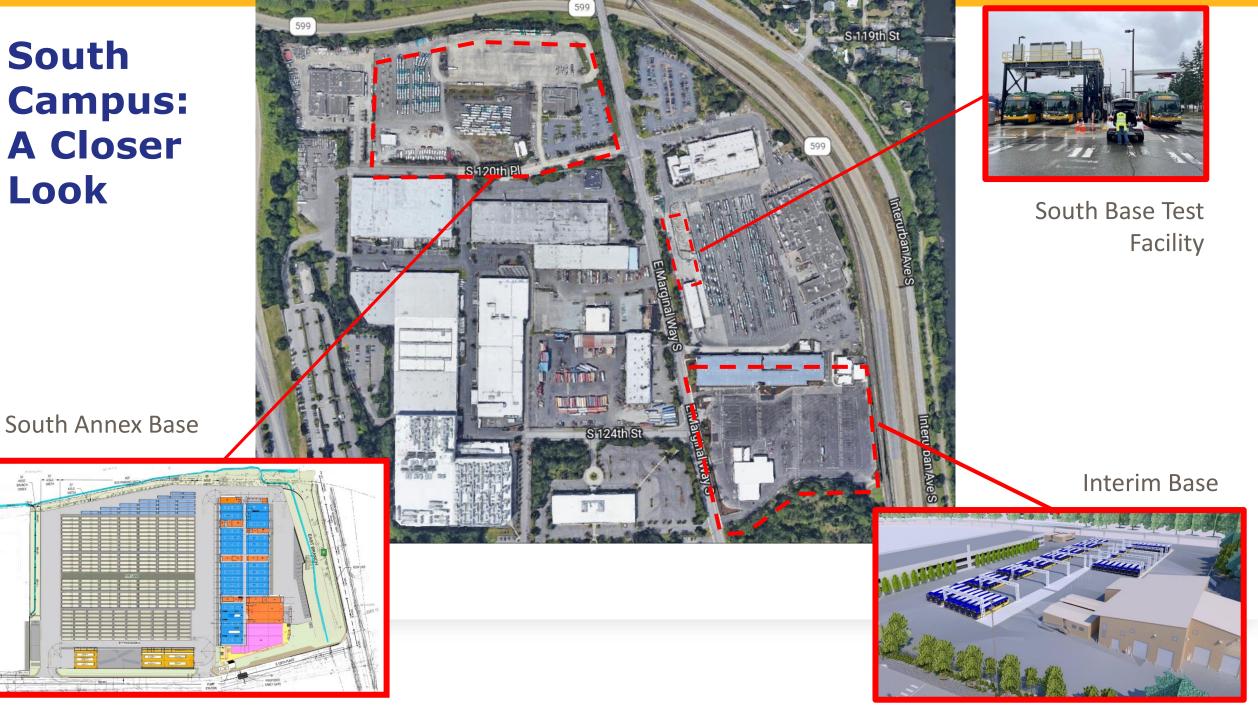
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Moving to Zero Emission – Key Bus Fleet Milestones



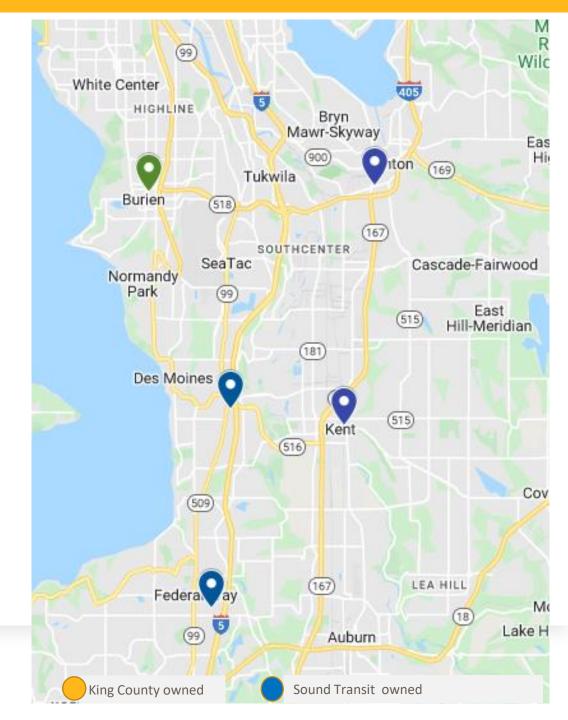
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South **Campus: A Closer** Look



Layover Charging Opportunities

- Leveraging Sound Transit investments
- Five sites being explored
 - Burien Transit Center (KCM)
 - Kent/Des Moines Link Station (ST)
 - Kent Transit Center (ST)
 - South Renton Transit Center (ST)
 - Federal Way Transit Center (ST)



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Looking Ahead

- Completion of the Transit System Electrification study
- Conversion of our existing bases
- Additional layover charging
- Trolley fleet and infrastructure optimization
- Zero emission fleet purchases
- Tracking federal and state funding

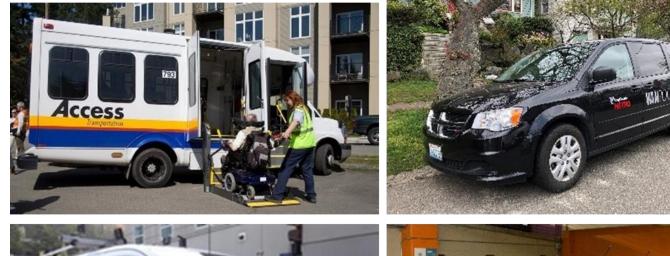
Metro's Non-Bus Fleets

- Non-revenue vehicles (NRV)
 - \circ Sedans to tow trucks
- Access Paratransit
- Mobility Services
 - o Rideshare
 - o DART
 - Community Connections
- Water Taxis

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Other Steps We're Taking

- Strengthening partnerships with utilities, jurisdictions and private sector
- Continuously learning
- On-going engagement with the industry
- Getting our work force ready
 - operators
 - vehicle maintenance
 - infrastructure

Closing and Questions



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