# 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!







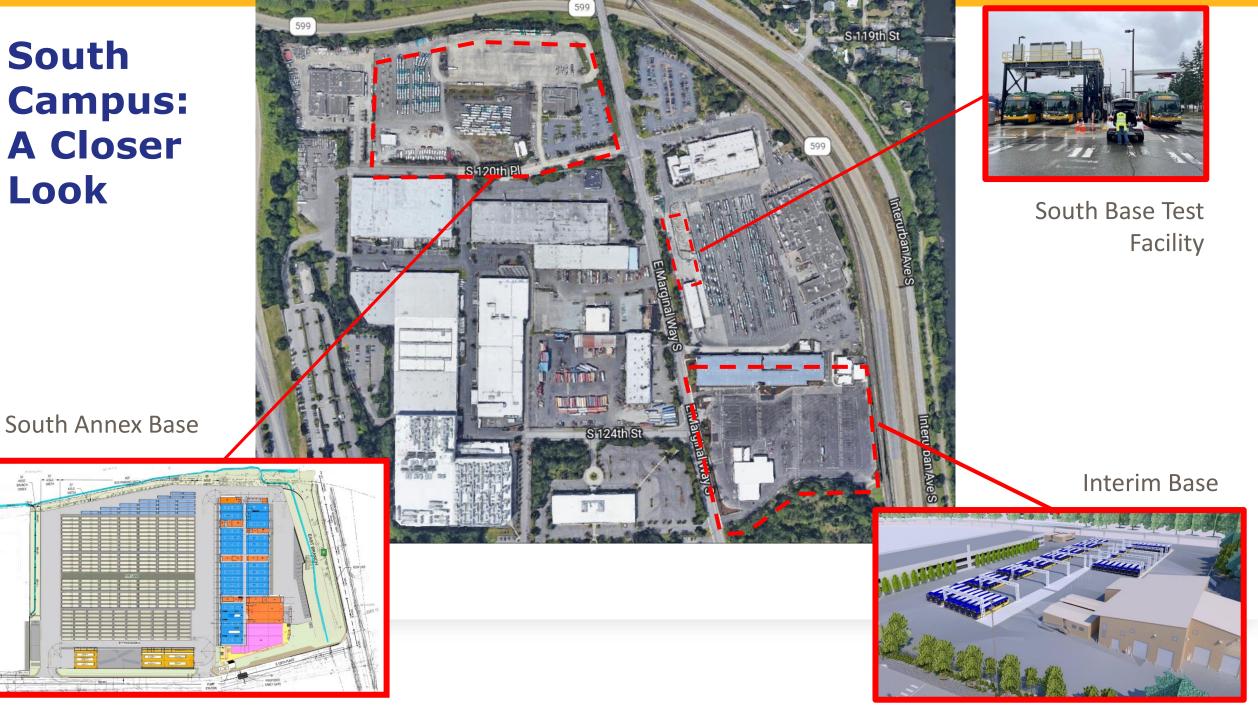
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# **Moving to Zero Emission – Key Bus Fleet Milestones**



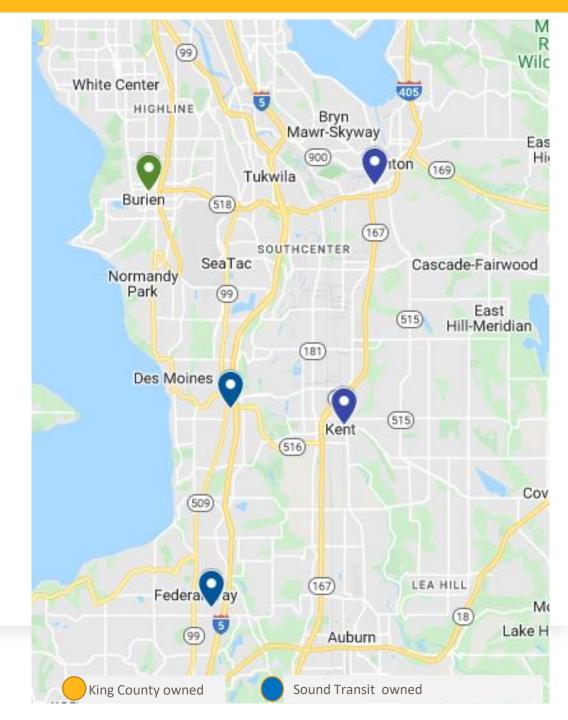
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South **Campus: A Closer** Look



# **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

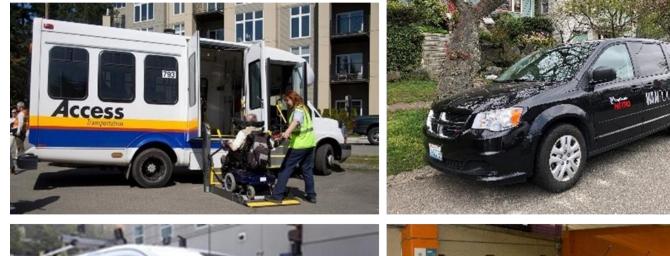
# Metro's Non-Bus Fleets

- 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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