Electrifying State Light-Duty Fleets & Transit

• Moderator:

- Melissa Savage, Director, Center for Environmental Excellence, AASHTO
- Speakers:
 - Hanna Waterstrat, Assistant Director, State Efficiency and Environmental Performance, Washington Department of Commerce
 - Ryan Daley, CEO, Sawatch Labs
 - Rob Gannon, General Manager, King County Metro





Electrifying State Light-Duty Fleets & Transit

Hanna Waterstrat, Assistant Director, State Efficiency and Environmental Performance, Washington Department of Commerce





Electrifying State Light-Duty Fleets & Transit

Ryan Daley, CEO, Sawatch Labs

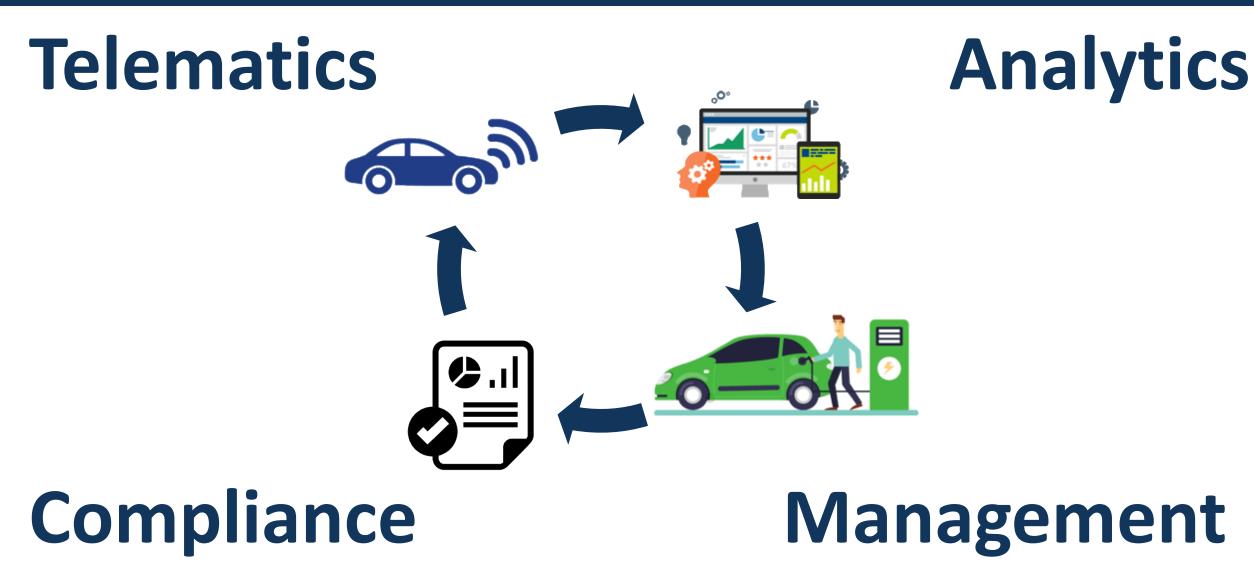


Data Driven Fleet Electrification & Optimization

NGA West Regional Transportation Electrification Workshop April 5, 2019

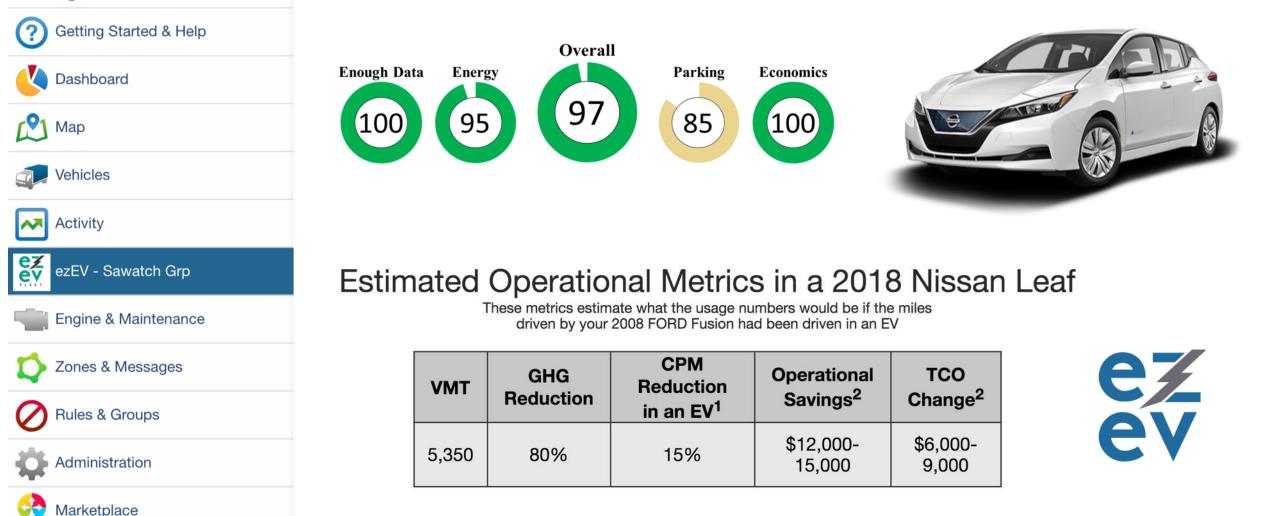








MYGEOTAB



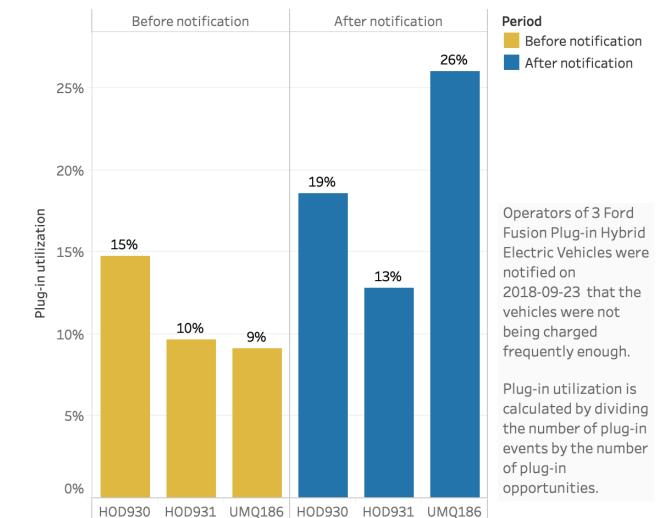


Are they actually...

- Approaching an ROI?
- Plugging in?
- Fully charged?
- **Missed Opportunities**
- e-vmt > g-vmt



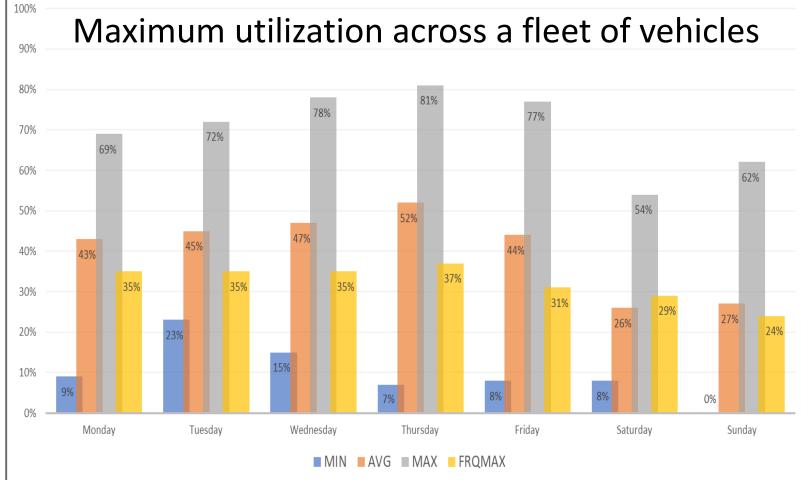
PHEV charging behavior by vehicle





Employee Mobility

- Fleet Share
- Right miles on the right tech
- Right-sizing
- Multimodal
- Cost, time, sustainability







Colorado Fleet Details Path to 200 EVs by 2020



February 27, 2019 • by Thi Dao 🕤 😏 in 🗠

https://www.government-fleet.com/325300/colorado-fleet-details-path-to-200-evs-by-2020



Electric Vehicle Suitability Assessment

- 1,300 State Fleet Vehicles
- EVSE needs statewide
- Initiated 3/20/19

Thank You!

Ryan Daley

CEO & Founder 303-999-8866 daley@sawatchlabs.com





Electrifying State Light-Duty Fleets & Transit

Rob Gannon, General Manager, King County Metro



Transitioning to a Zero-Emission Fleet

NGA West Regional Transportation Electrification Workshop April 5, 2019



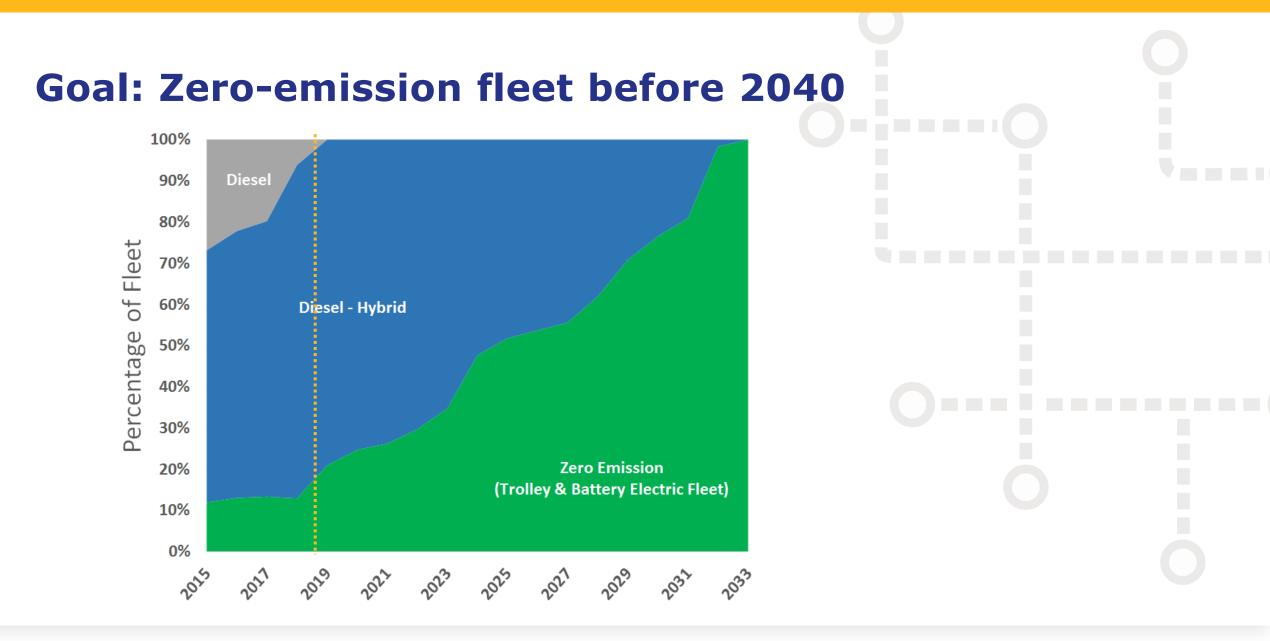
King County METRO Moving forward together

Transitioning to a Zero-Emission Fleet

NGA West Regional Transportation Electrification Workshop April 5, 2019



King County METRO Moving forward together



King County METRO Moving forward together

Where are we now

Moving forward together

👔 King County

METRO



Fleet

185 Zero-Emissions Buses

(12% of our fleet)

- 174 Electric Trolley Buses
- 11 Fast Charge 40' Battery Electric Buses
- 10 Extended Range Battery Electric Buses (Test-2019)

Infrastructure

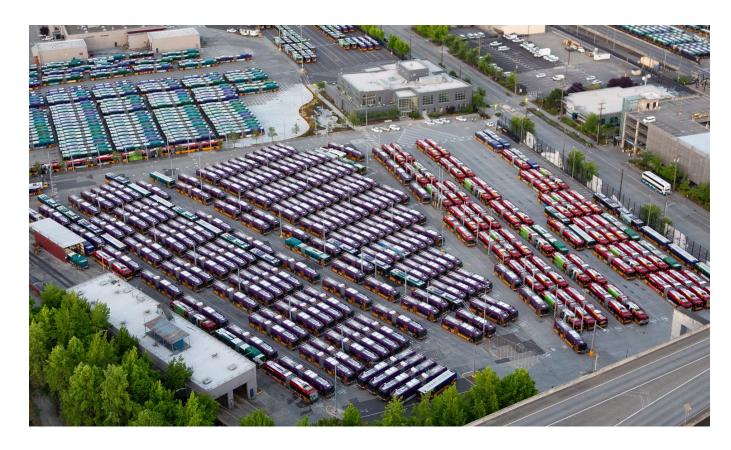
3 Fast Chargers; 2 more on the way

Where are we now

Moving forward together

👔 King County

METRO



Fleet

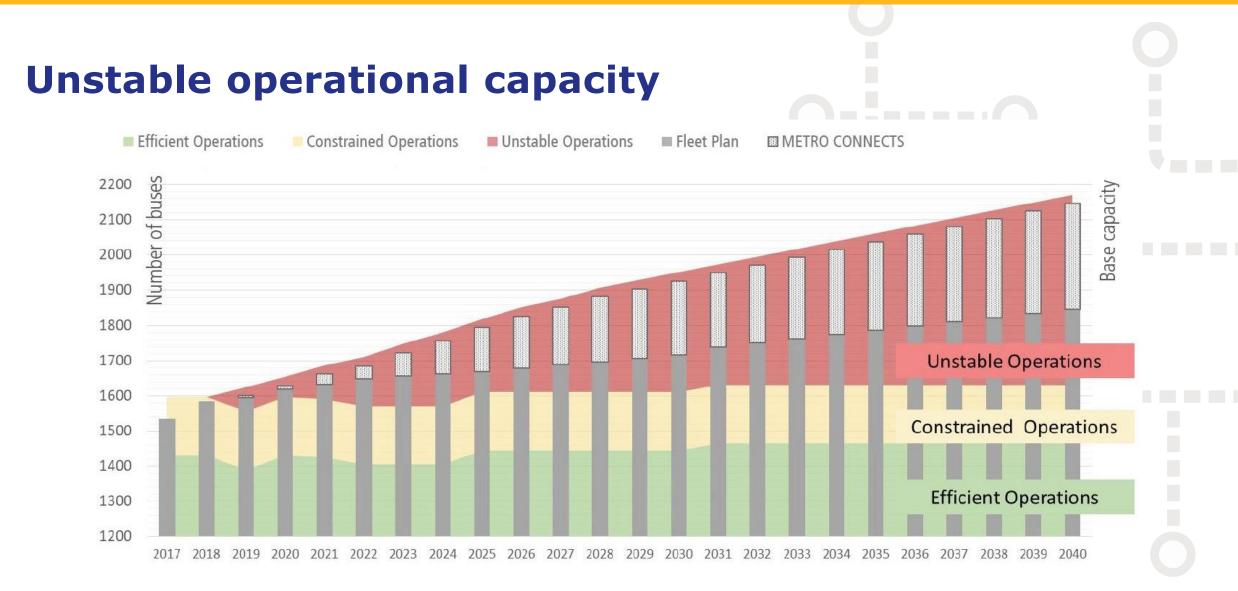
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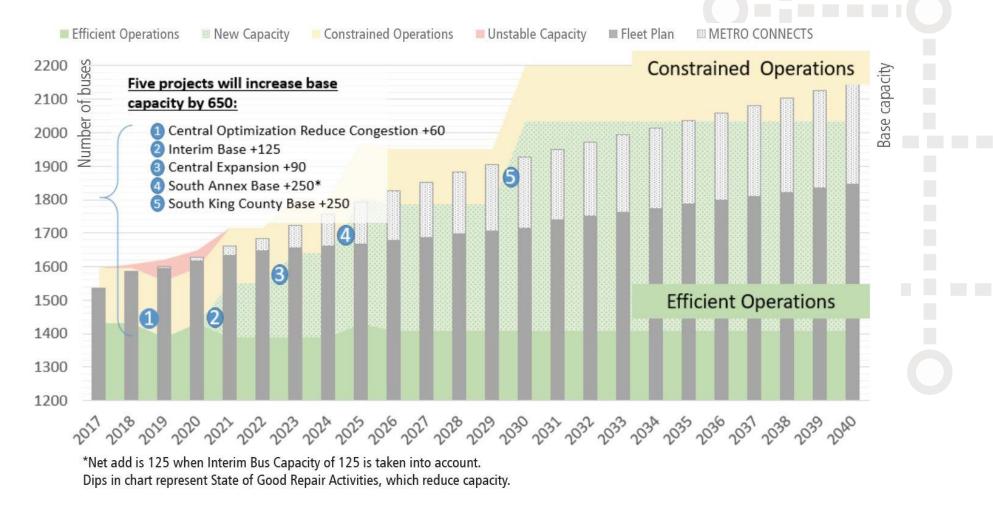
3 Fast Chargers; 2 more on the way



Metro Moving forward together

👔 King County

Building for more stable operations



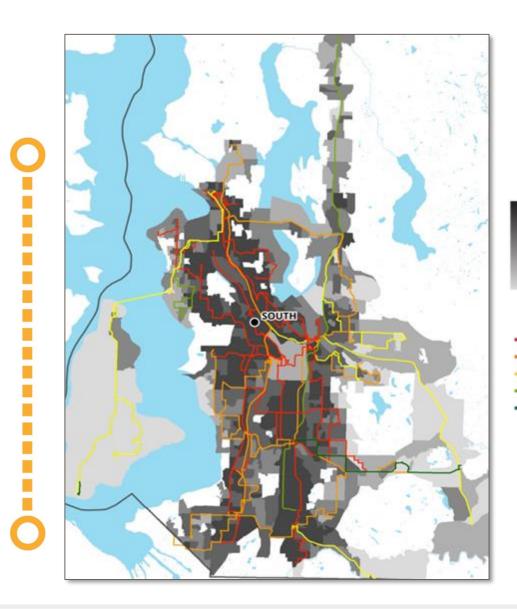
King County

METRO

Advancing Equity

Prioritizing deployment in communities most vulnerable to air pollution

- Vulnerability based on air pollution levels, health conditions, and social risk factors
- South Base highest priority for transitioning to zeroemission fleet based on vulnerability of communities served



Most vulnerable communities are more shaded

Priority bus routes to be served by zero-emission buses

King County