

PUBLIC PERFORMANCE REVIEW

Goal 3 – Achieving Clean Energy Goals by
Decarbonizing Transportation

April 26, 2023



WELCOME

PRESENTED BY:

- MANDEEP KAUNDAL, DIRECTOR, RESULTS WASHINGTON

Building Logistics

- **Emergency exits** are located through the conference room doors directly ahead
- **Restrooms** are located outside of the conference room next to the elevators
- Please take **side conversations** outside the room
- Attendees will find a QR code and a physical **survey** located on conference room tables
- **ASL interpretation** is being provided for today's meeting
- Our meeting is being **live-streamed** by TVW
- Meeting **materials** are located at www.results.wa.gov

Topic Selection

- Achieving Clean Energy Goals by Decarbonizing Transportation aligns with the Governor's strategic goal area of sustainable energy and a clean environment
- Recommended by leaders across the state to review Washington's progress on ambitious goals to protect our climate and health
- Progress and initiatives presented by:
 - Department of Ecology
 - Department of Transportation
 - Department of Commerce



Governor's Opening Remarks



ACHIEVING CLEAN ENERGY GOALS

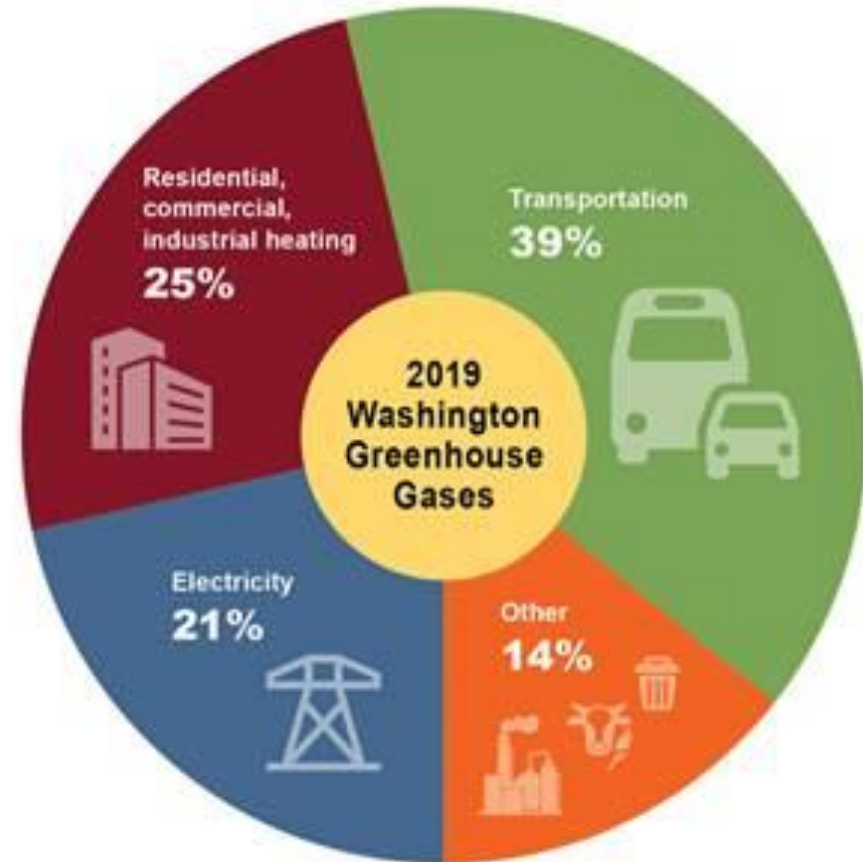
INTRODUCTION – INTERAGENCY EV COORDINATING COUNCIL

PRESENTED BY:

- DEBORAH REYNOLDS, EV COUNCIL CO-CHAIR AND MANAGING DIRECTOR OF CLEAN TRANSPORTATION, DEPARTMENT OF COMMERCE
- TONIA BUELL, EV COUNCIL CO-CHAIR AND ALTERNATIVE FUELS PROGRAM MANAGER, DEPARTMENT OF TRANSPORTATION

Decarbonizing Transportation

- Net-zero carbon emissions by 2050
- 40 million metric tons from transportation sources
- Significant focus on electrification under the EV Coordinating Council



Interagency EV Coordinating Council

Responsibilities of the Council (RCW 43.392)

- Develop statewide transportation electrification strategy
- Develop public and private outreach plan
- Identify and coordinate electric vehicle-related funding
- **Ensure all activities associated with advancing transportation electrification benefit vulnerable and overburdened communities**

Interagency EV Coordinating Council

10 Washington state agencies

- Depts. of Health, Enterprise Services, Ecology, Agriculture
- Utility regulator, school bus liaison, state budget office, environmental performance office

Co-chairs

- Deborah Reynolds, Dept. of Commerce
- Tonia Buell, Dept. of Transportation

Executive Committee

- Commerce, Transportation, Ecology, Enterprise Services, Utilities and Transportation Commission

Advisory Committee

- 25 members
- Co-chairs elected by committee
- Monthly meetings

Workgroup

- State agency staff leading EV programs

<https://www.commerce.wa.gov/growing-the-economy/energy/clean-transportation/ev-coordinating-council/>

Transportation Electrification Strategy

Strategy

- Recommendations for policies and funding needed to reach needed EV adoption, including actions to fill charging gaps

Components:

- Market transformation
- Stretch target 2030
- **Benefits overburdened communities**
- Outreach and engagement



<https://www.commerce.wa.gov/TES/>

Transitioning to zero emission vehicles

Benefits:

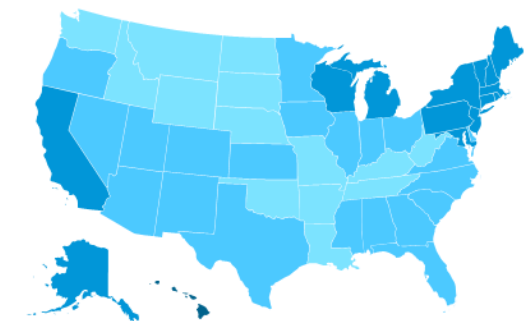
- Uses Washington's clean, renewable, affordable electricity
- Reduces fuel & maintenance costs and provides mobility choices for citizens
- Reduces GHG emissions and helps meet clean air goals
- Creates green jobs, supports a green economy, and advances energy independence



BPA federal hydroelectric power project in the Columbia River Basin.

Challenges:

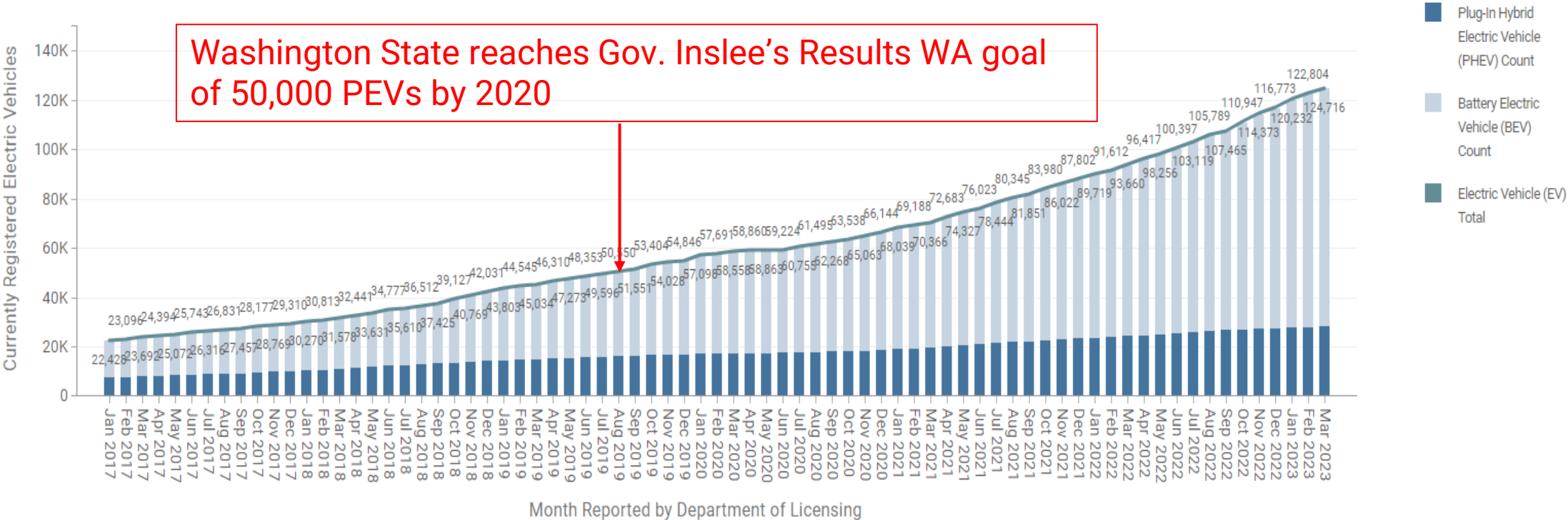
- Impacts electricity grid, utility upgrades, demand charges
- Requires charging infrastructure at homes, multifamily housing, public places, workplaces, and travel corridors
- Currently costs more upfront to purchase vehicles



■ ≤ 10.00 cents/kWh

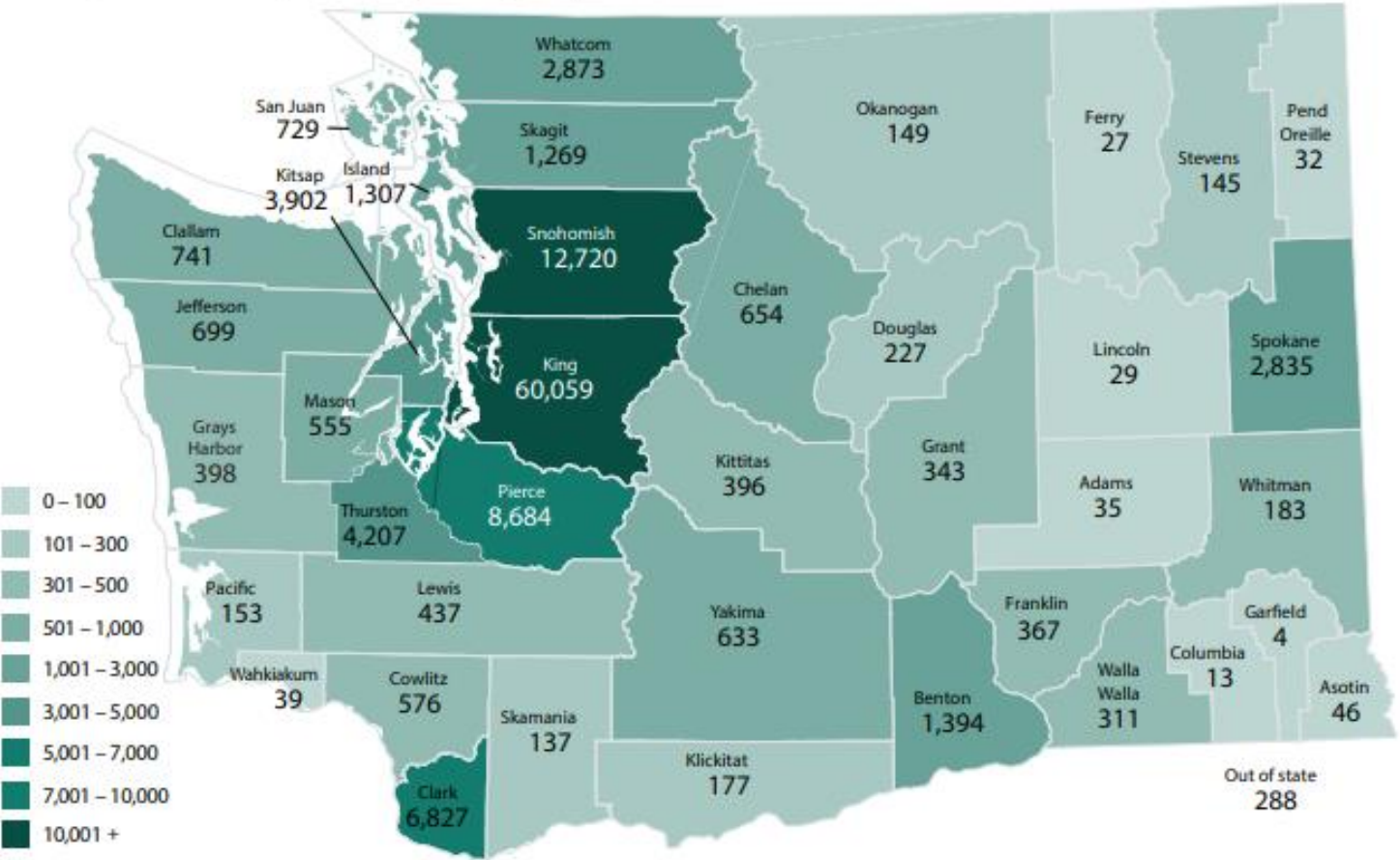
Source: U.S. Energy Information Administration

Plug In Electric Vehicle Registrations



Source: Department of Licensing <https://data.wa.gov>

Plug In Electric Vehicles by County



Source: WSDOT [Gray Notebook December 2022](#)

Requirements on vehicle manufacturers

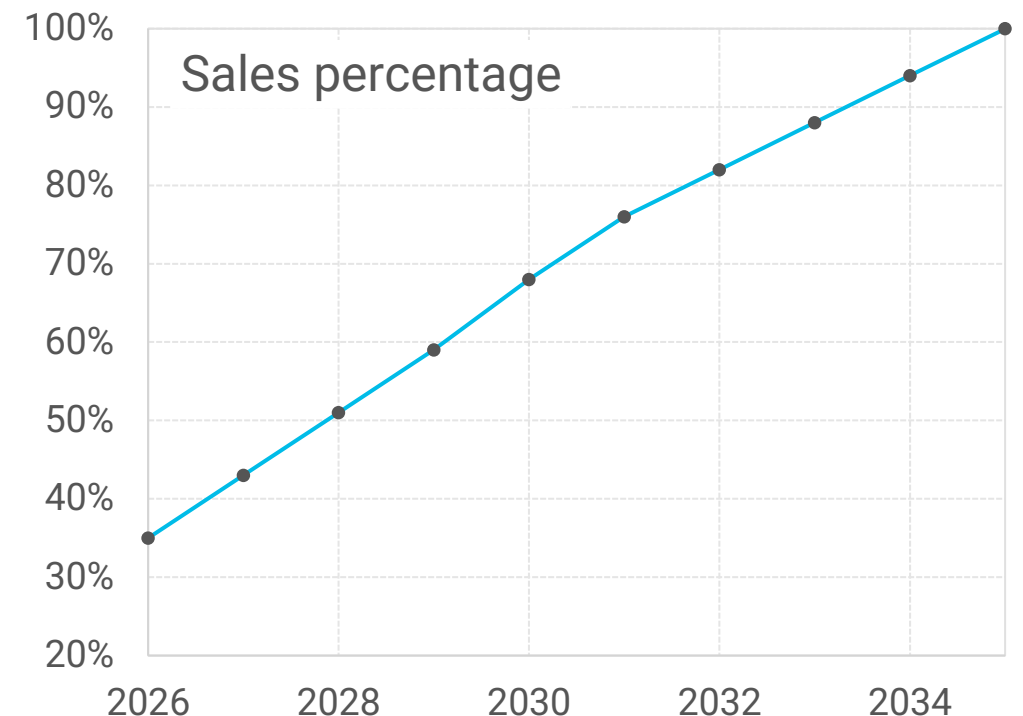
Light-duty vehicles

- Light-duty vehicle manufacturers required to have 8% of new sales be zero-emission vehicles (ZEV) in Model Year 2025
- Light-duty vehicle manufacturers required to have 35% of new sales be ZEV in Model Year 2026, increasing to 100% in Model Year 2035

Medium & heavy trucks

- Requires an increasing percentage of zero emission new heavy-duty vehicle sales through 2035. Actual sales requirements in 2035 vary per class of vehicles, from 40% to 75%.

Required new LDV vehicle sales MY26-35





Governor Q&A



PROGRESS AND INITIATIVES: DEPARTMENT OF ECOLOGY

PRESENTED BY:

- MOLLY SPILLER, VW UNIT SUPERVISOR, DEPARTMENT OF ECOLOGY
- DEVIN DENNY, TRANSPORTATION DIRECTOR, HIGHLINE PUBLIC SCHOOLS
- THEO WHITE, DISPATCHER AND DRIVER, HIGHLINE PUBLIC SCHOOLS

VW & Clean Diesel Programs Priorities

Prioritize funding projects that:

- ✓ **Reduce emissions**
- ✓ **Improve air quality and public health**
- ✓ **Benefit impacted communities**
- ✓ **Accelerate zero-emission transportation**



Electric School Bus Grants

Guiding Principles

Statewide opportunities

Equity and Environmental Justice

Grant Awards



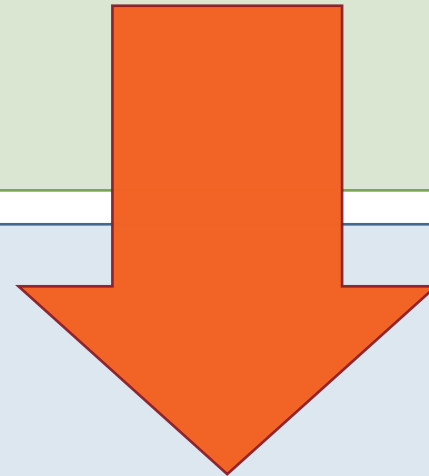
\$25 million



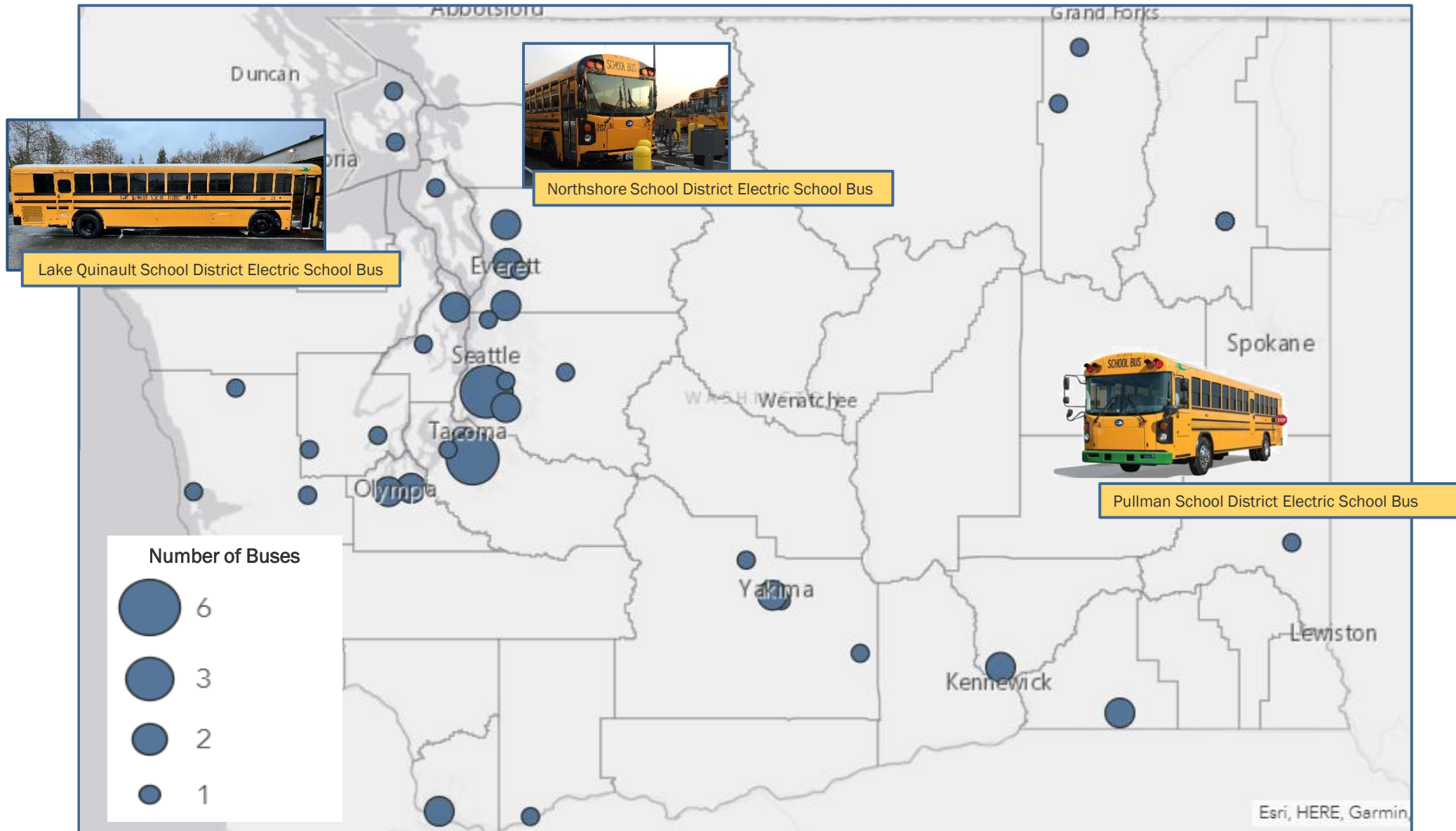
79 buses



2,600 students daily



Electric School Bus Grant Locations



Grant Results

1. Emissions Reduction Estimates

- 6 tons/year of NO_x emissions
- 1096 tons/year of CO₂ emissions

2. Equity and Environmental Justice

- Direct emissions reductions in communities
- Reduced health impacts on children
- 52% of awards in impacted communities
- 57% of awards in districts with high Free and Reduced Lunch Program participation

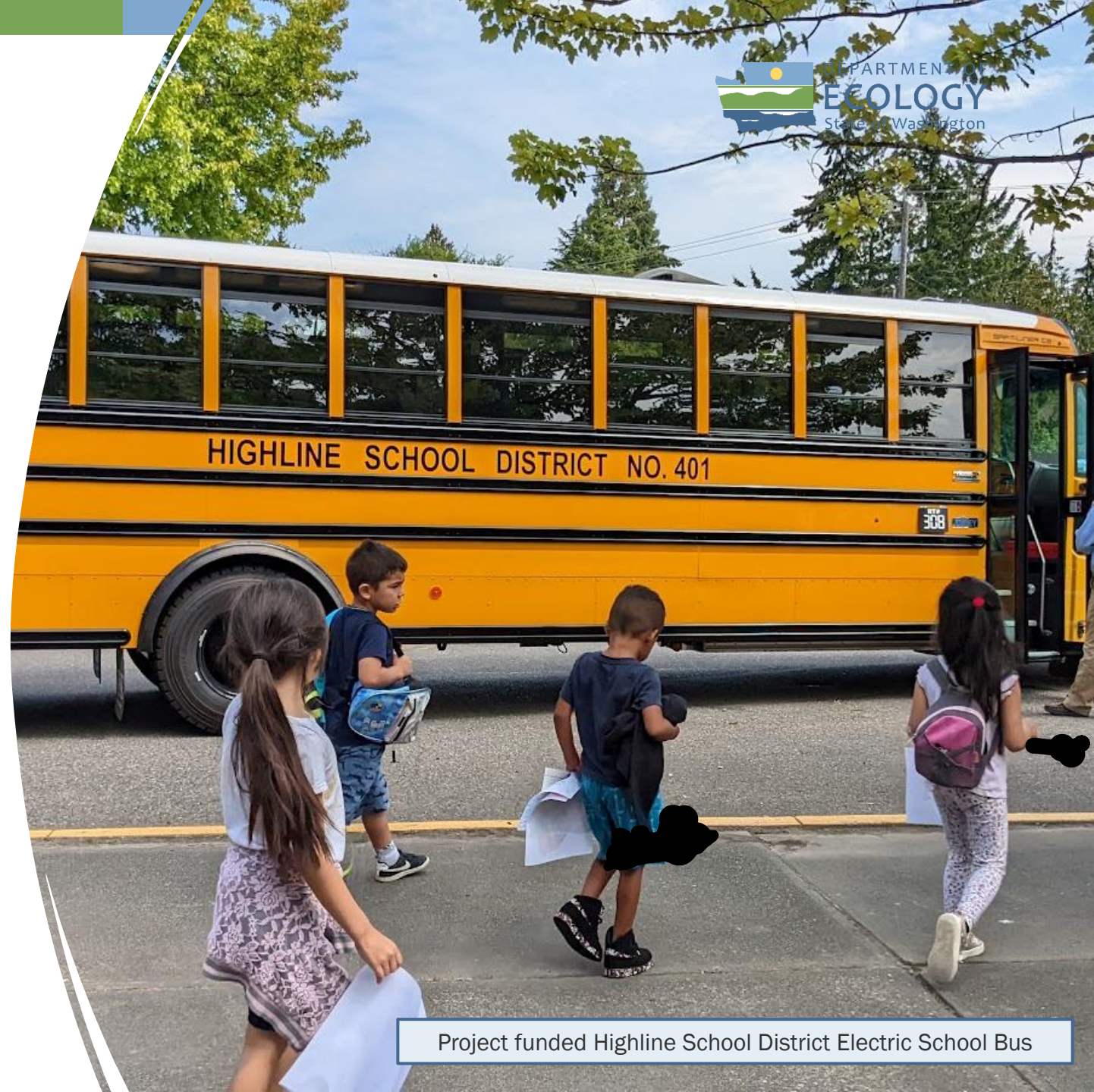
3. Confidence in Zero-Emission Technology



Highline Public Schools

Devin Denney
Transportation Director

Theo White
Dispatcher and Driver





Governor Q&A



PROGRESS AND INITIATIVES: DEPARTMENT OF TRANSPORTATION

PRESENTED BY:

- JILLIAN NORDSTROM, PUBLIC TRANSPORTATION DIVISION
GRANTS & COMMUNITY PARTNERSHIPS MANAGER, WSDOT
- JOE CLARK, EXECUTIVE DIRECTOR OF TRANSIT SERVICES, TWIN
TRANSIT

Green Transportation Capital Grants

Program success

- Funding has grown
- Knowledge is growing
- We're working to support partners to amplify success in state and federal funding

Program details

- First round of awards July 2020
- Competitive grant program
- Cost-effective capital equipment and construction projects supporting transit fleet conversion to zero-emissions vehicles
- Recently added eligibility for zero-emissions transition planning



GREEN TRANSPORTATION CAPITAL GRANT PROGRAM INVESTMENTS

**2019-21
CYCLE**

8
PROJECTS
\$11.5
MILLION
AWARDED

**2021-23
CYCLE**

9
PROJECTS
\$16.5
MILLION
AWARDED

**2021-23
SUPPLEMENTAL
BUDGET**

15
TRANSITION
PLANNING
PROJECTS
\$3.3
MILLION
AWARDED

**2023-25
CYCLE**

17
APPLICATIONS
**REQUESTING
\$61.2**
MILLION

awards announced May 2023

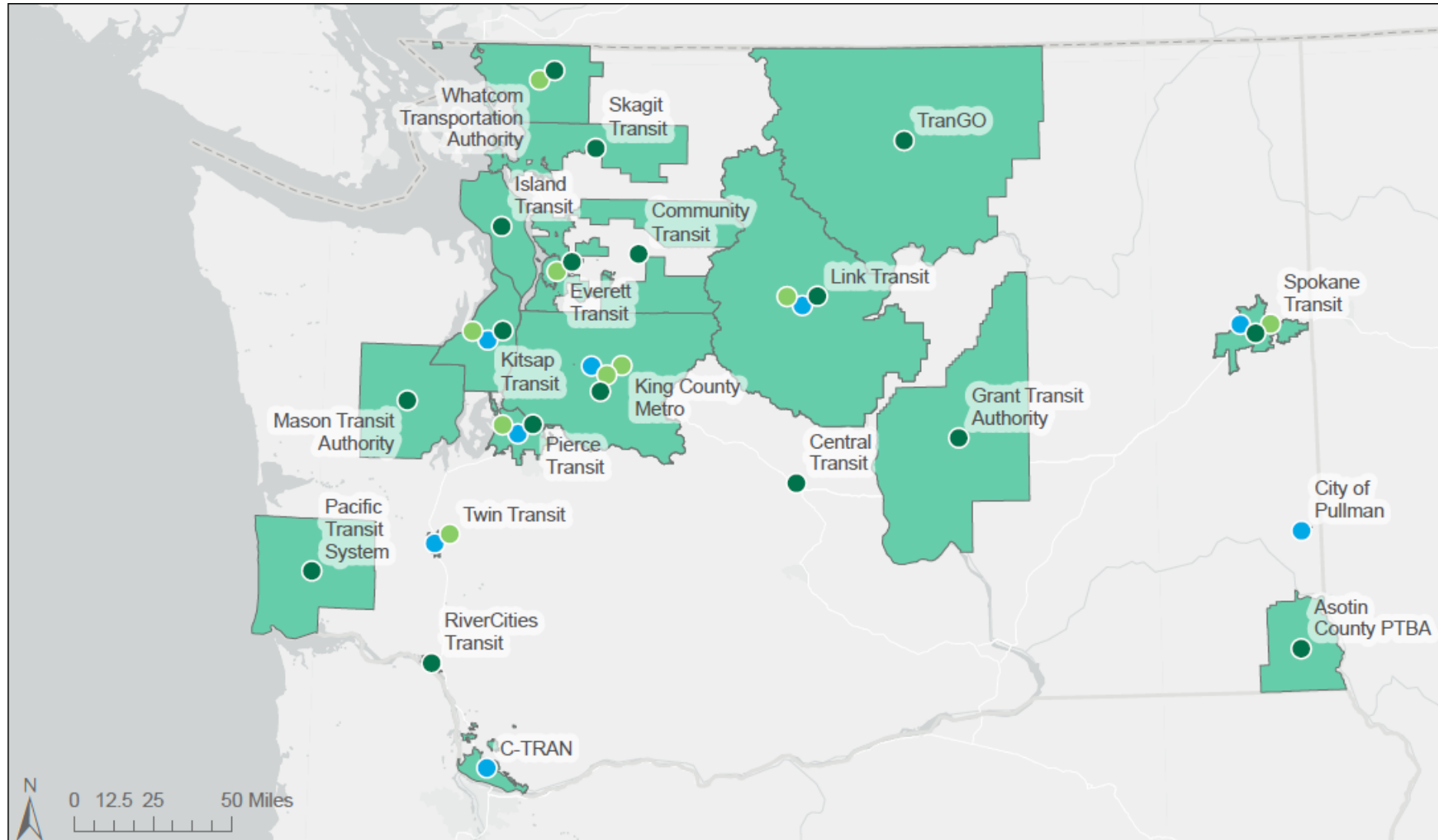
OUTCOMES:

8
VEHICLES

18
CHARGING
STATIONS

**THE START OF
15** ZERO-EMISSIONS
TRANSITION PLANS

Transits receiving grants



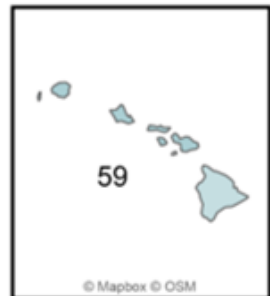
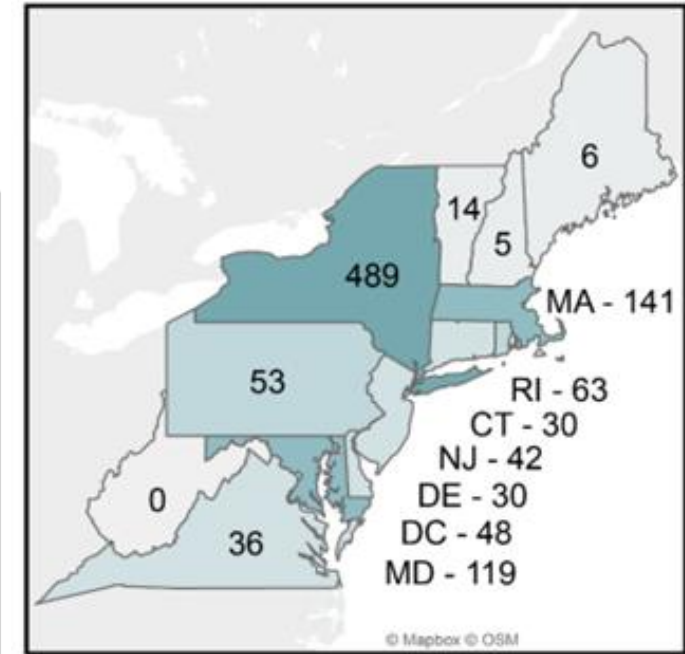
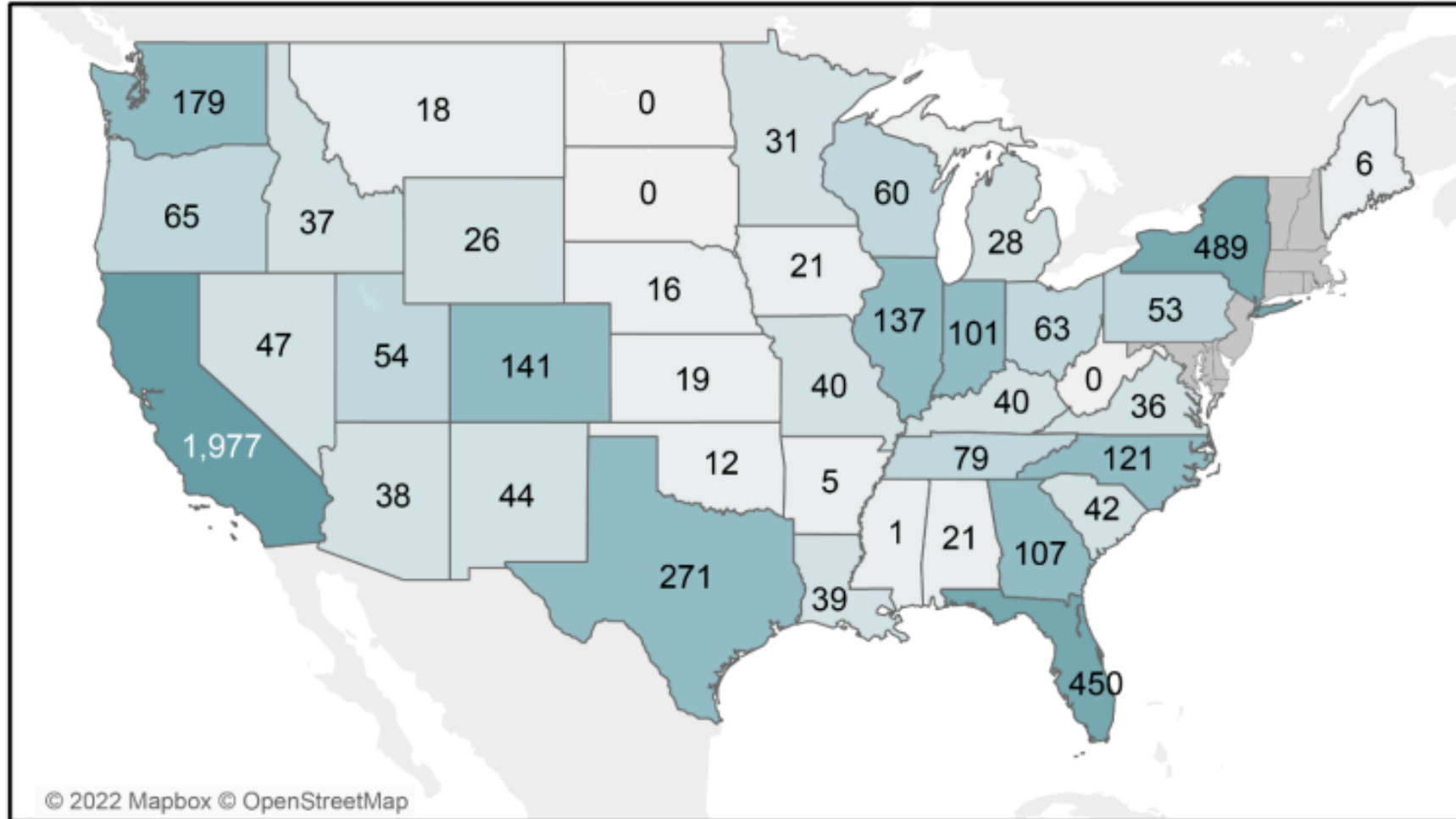
Awards by biennium

- 2019-2021
- 2021-2023
- 2022-2023

Grantee service area



Washington Ranks 5th*



* Courtesy of Calstart, [Zeroing in on ZEBs](#), February 2023

Barriers, lessons, & opportunities

Barriers

- Readiness
- Supply chain (many buses on order)
- Inflation
- Places where battery electric vehicles currently don't make sense
 - Terrain
 - Distance
 - Electrical system limitations

Lessons learned & opportunities

- Funding opportunities are here
- Planning is critical
- Growing expertise around zero emissions vehicles and infrastructure

Twin Transit & Lewis County

- Rural transit agency serving cities of Centralia and Chehalis
- 2019-21 Green Transportation Capital Grant Program award: Zero-emission rapid transit hub & Mellen Street transit station (\$1.9 million)
- 2021-23 Green Transportation Capital Grant Program award: Southwest Washington corridor e-transit station (\$2.1 million)
- Workforce development



Governor Q&A

The background of the slide features a large, faint, circular seal of the State of Washington. The seal contains a portrait of George Washington and the text "THE STATE OF WASHINGTON" and "1889".

FUTURE COMMITMENTS AND NEXT STEPS

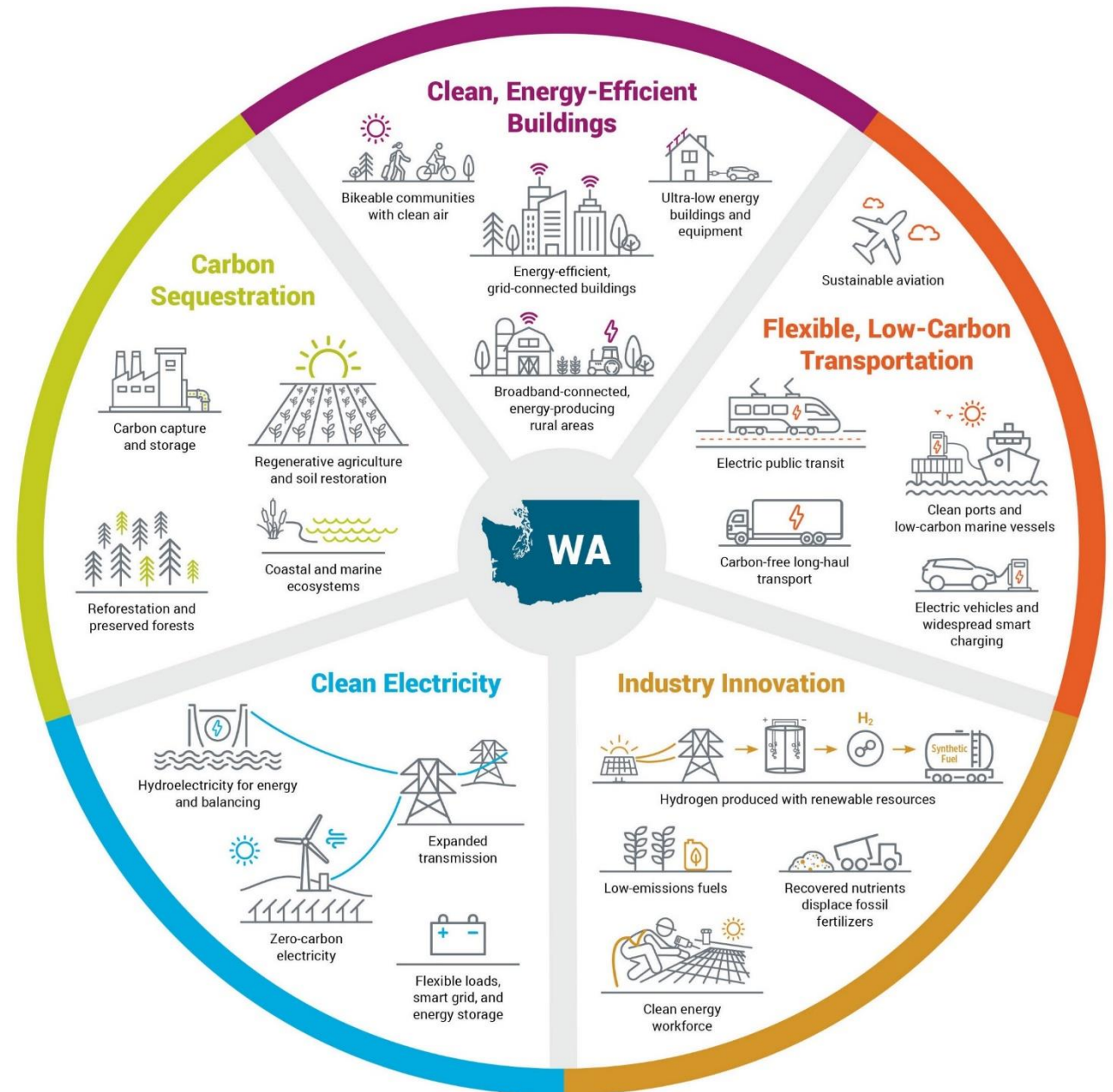
PRESENTED BY:

- MICHAEL FURZE, ASSISTANT DIRECTOR, ENERGY DIVISION, DEPARTMENT OF COMMERCE

WASHINGTON STATE 2050

Net-Zero Vision

A blueprint for how we can meet our state's climate goals to nearly eliminate the use of climate-threatening fossil fuels by 2050, while growing a prosperous economy and maintaining affordable and reliable energy supplies.



A clean energy transition that centers equity

- Recognize that No Single Definition of Equity May be Satisfactory
- Break from Historical Patterns and Narratives
- Ensure Public Participation and Inclusion of Historically Marginalized Voices
- Prioritize Energy Resiliency as Part of Energy Policy and Planning
- Embed Equity in the Design of Clean Energy Policies and Programs



Governor Q&A



Governor's Closing Remarks

Join us May 24th
10:30 a.m. – 11:45 a.m.

Topic:
Small Business
Sector Growth and
Supplier Diversity

THANK YOU FOR ATTENDING TODAY!

PLEASE TAKE A MOMENT TO COMPLETE
OUR BRIEF SURVEY USING THE QR CODE
BELOW:



YOU CAN VIEW THE RECORDING OF
TODAY'S MEETING
AT: [HTTPS://RESULTS.WA.GOV/MEASURING-](https://results.wa.gov/measuring-progress/public-performance-reviews)
[PROGRESS/PUBLIC-PERFORMANCE-REVIEWS](https://results.wa.gov/measuring-progress/public-performance-reviews)