



WELCOME!

**WE WILL BEGIN
THE MEETING
MOMENTARILY.**

PUBLIC PERFORMANCE REVIEW

Project 3.1: Combating Climate Change
December 7, 2022

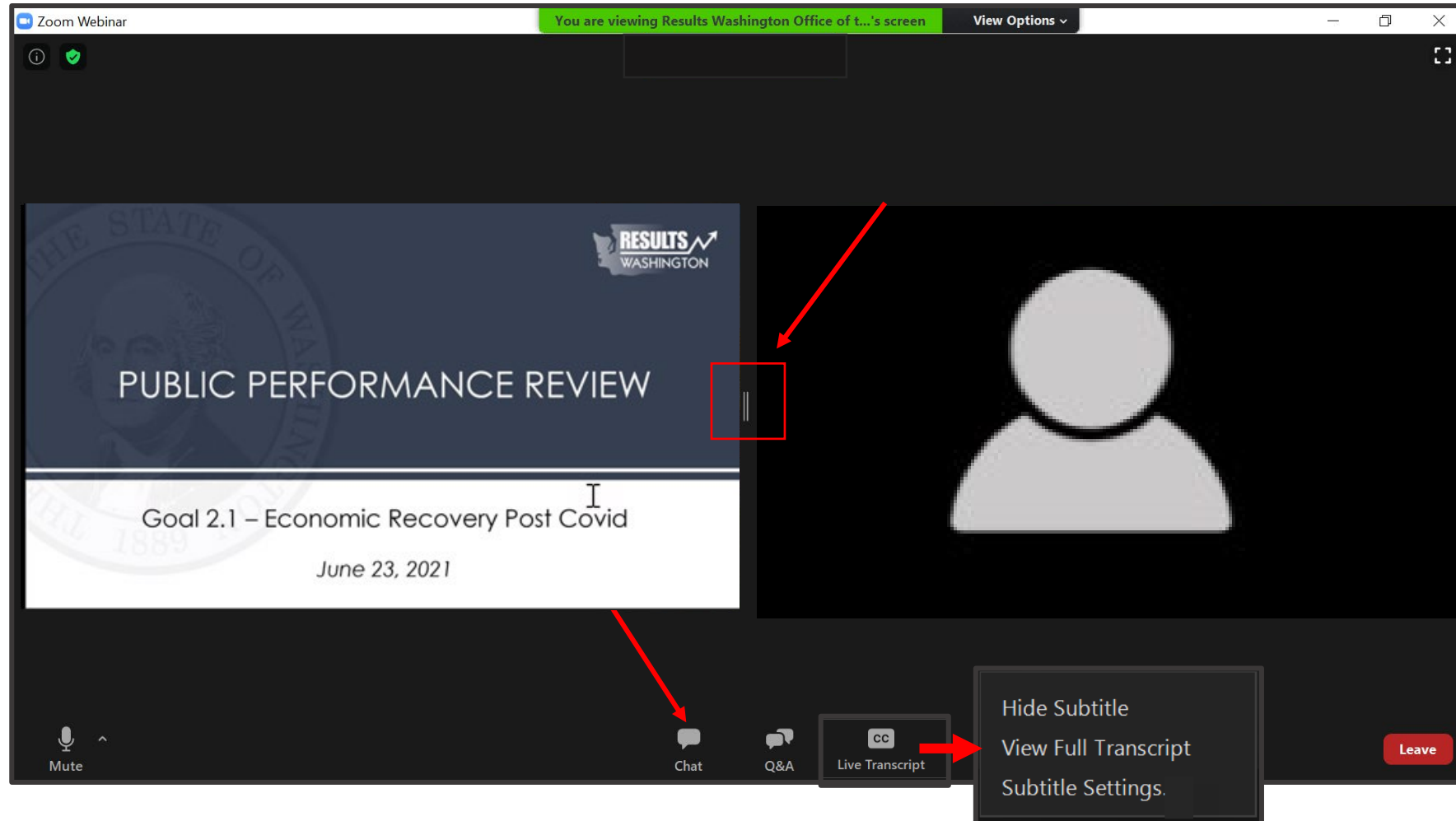


WELCOME

PRESENTED BY:

- MANDEEP KAUNDAL, DIRECTOR, RESULTS WASHINGTON

Zoom Overview

A screenshot of a Zoom Webinar interface. The window title is "Zoom Webinar" and the address bar shows "You are viewing Results Washington Office of t...'. The main content area is split into two panes. The left pane displays a slide with the "RESULTS WASHINGTON" logo, the title "PUBLIC PERFORMANCE REVIEW", and the subtitle "Goal 2.1 – Economic Recovery Post Covid" dated "June 23, 2021". The right pane shows a grey silhouette of a person. The bottom toolbar includes "Mute", "Chat", "Q&A", "Live Transcript", and "Leave". A red box highlights a vertical ellipsis menu icon on the right side of the slide. A red arrow points from this icon to a context menu that is open, listing "Hide Subtitle", "View Full Transcript", and "Subtitle Settings". Another red arrow points from the "Live Transcript" button to the "View Full Transcript" option in the menu.

Zoom Webinar

You are viewing Results Washington Office of t...'.s screen

View Options

RESULTS WASHINGTON

PUBLIC PERFORMANCE REVIEW

Goal 2.1 – Economic Recovery Post Covid

June 23, 2021

Mute

Chat

Q&A

Live Transcript

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Subtitle Settings.

Zoom Overview

A screenshot of a Zoom meeting interface. The main content area shows a presentation slide with the "RESULTS WASHINGTON" logo in the top right corner. The slide title is "PUBLIC PERFORMANCE REVIEW" and the subtitle is "Goal 2.1 – Economic Recovery Post Covid". The date "June 23, 2021" is displayed at the bottom. On the right side of the screen, there is a vertical toolbar with three options: "Standard", "Side-by-side: Speaker" (which is selected and highlighted in blue), and "Fullscreen". A red arrow points from the "Side-by-side: Speaker" option to the main content area. Below the toolbar, there are two grey icons representing participants in the meeting.

Standard

✓ Side-by-side: Speaker

Fullscreen

RESULTS WASHINGTON

PUBLIC PERFORMANCE REVIEW

Goal 2.1 – Economic Recovery Post Covid

June 23, 2021

Project Selection

Criteria for Cross Agency Projects:

- Within existing resources
- Without Policy of legislative Action
- Without IT being the only solution

Project 3.1 Combating Climate Change

- In partnership with the State Efficiency and Environmental Performance Office (SEEP), integrate enterprise-level and agency business processes and operations to align with emissions reduction goals (examples: facilities management, planning and oversight, budget, fleet management, leasing).
- This project is solely focused on reducing state agency GHG emissions.



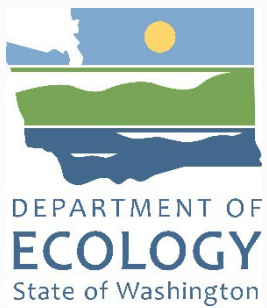
Opening Remarks



3.1 PROJECT INTRODUCTION & DATA OVERVIEW

PRESENTED BY:

- LAURA WATSON, DIRECTOR, DEPARTMENT OF ECOLOGY
- STACEY WATERMAN-HOEY, GHG EMISSIONS ANALYST



3.1 Project Introduction

Laura Watson, Director

Dec. 7, 2022



DEPARTMENT OF
ECOLOGY
State of Washington

Results Washington State Agency Greenhouse Gas Emissions Reporting

Stacey Waterman-Hoey, GHG Emissions Analyst

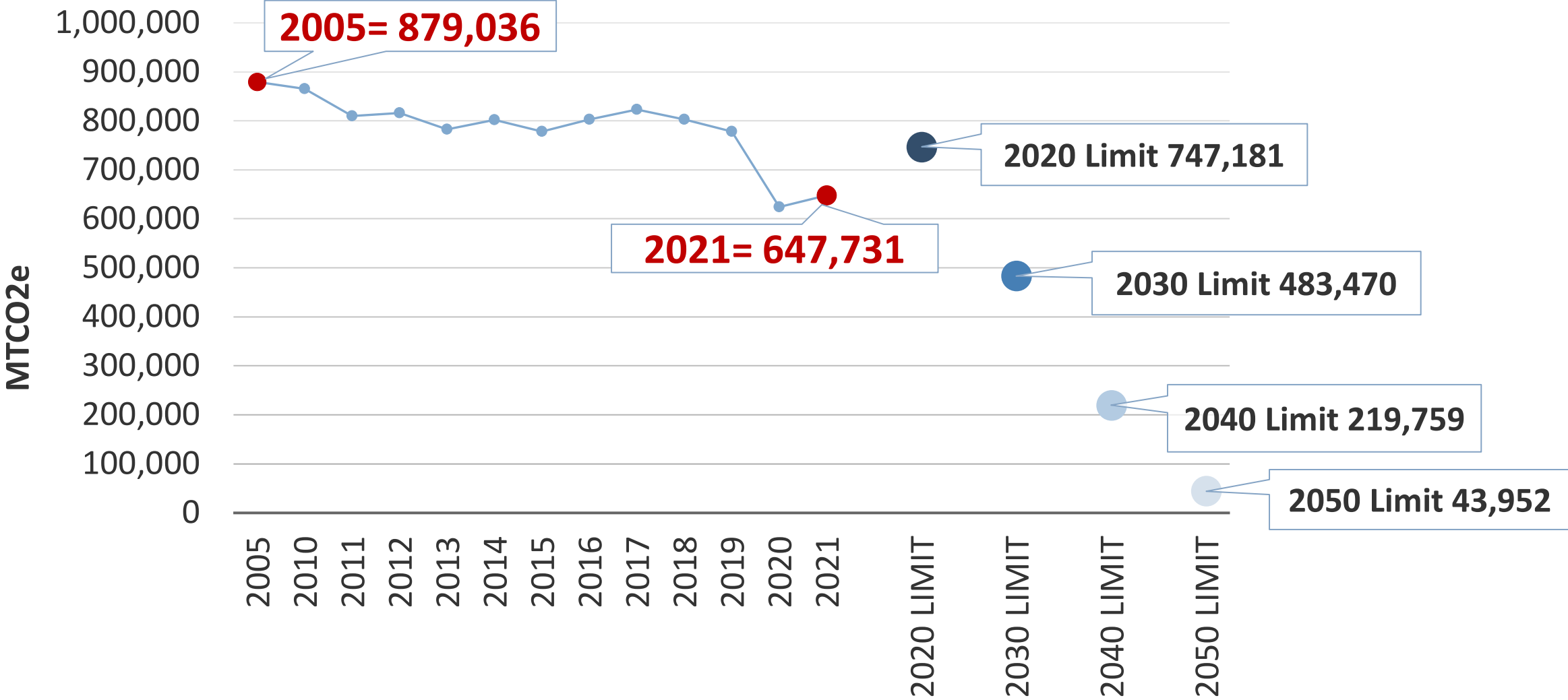
Dec. 7, 2022

Washington GHG Emission Limits

Optional summary or explanation of table information

	Washington State	State Agencies Climate Leadership Act
2020	1990 level	15% below 2005 baseline
2030	45% below 1990	45% below 2005
2040	70% below 1990	70% below 2005
2050	95% below 1990, net zero	95% below 2005, net zero

State Agency Historic Emissions & Future Limits



State Agencies Progress Report

- In 2021, 15 of 21 agencies remained below their individual 2020 limits
- 12 had met their 2020 limit back in 2019

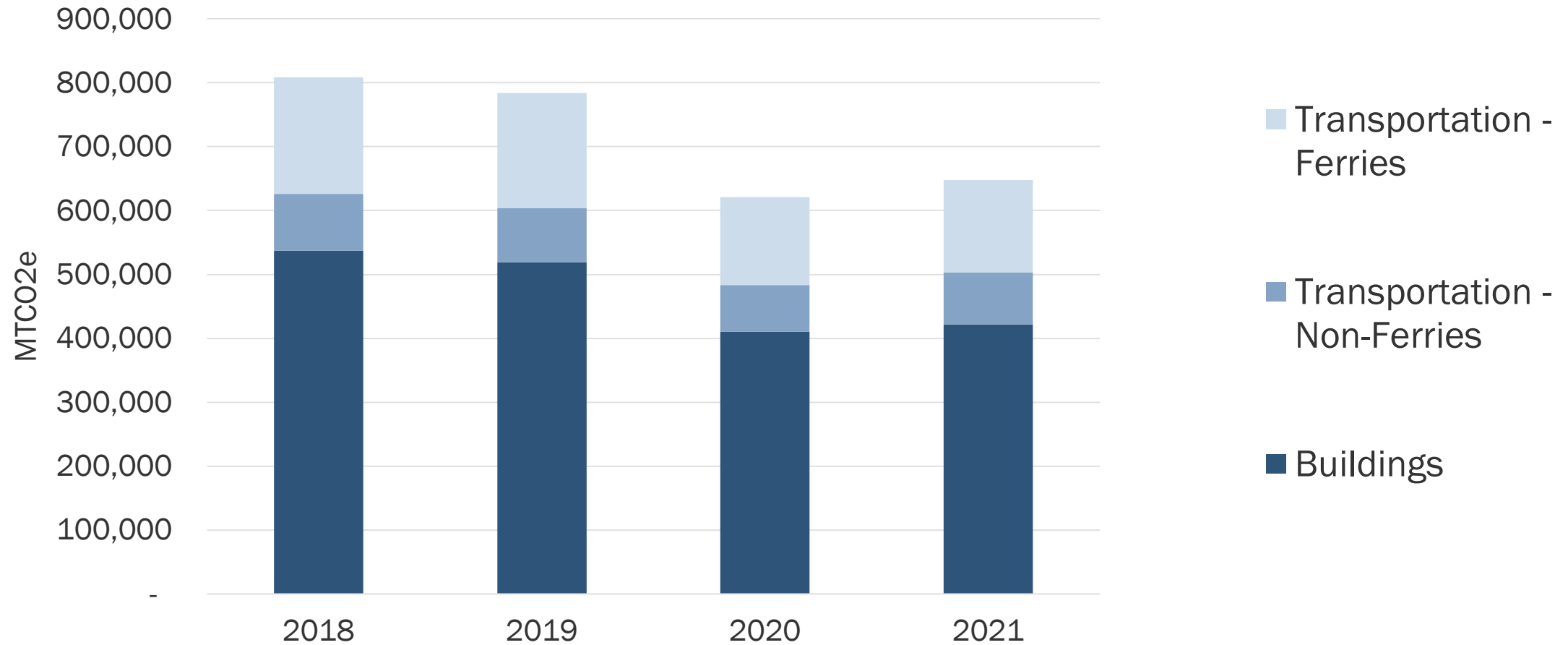




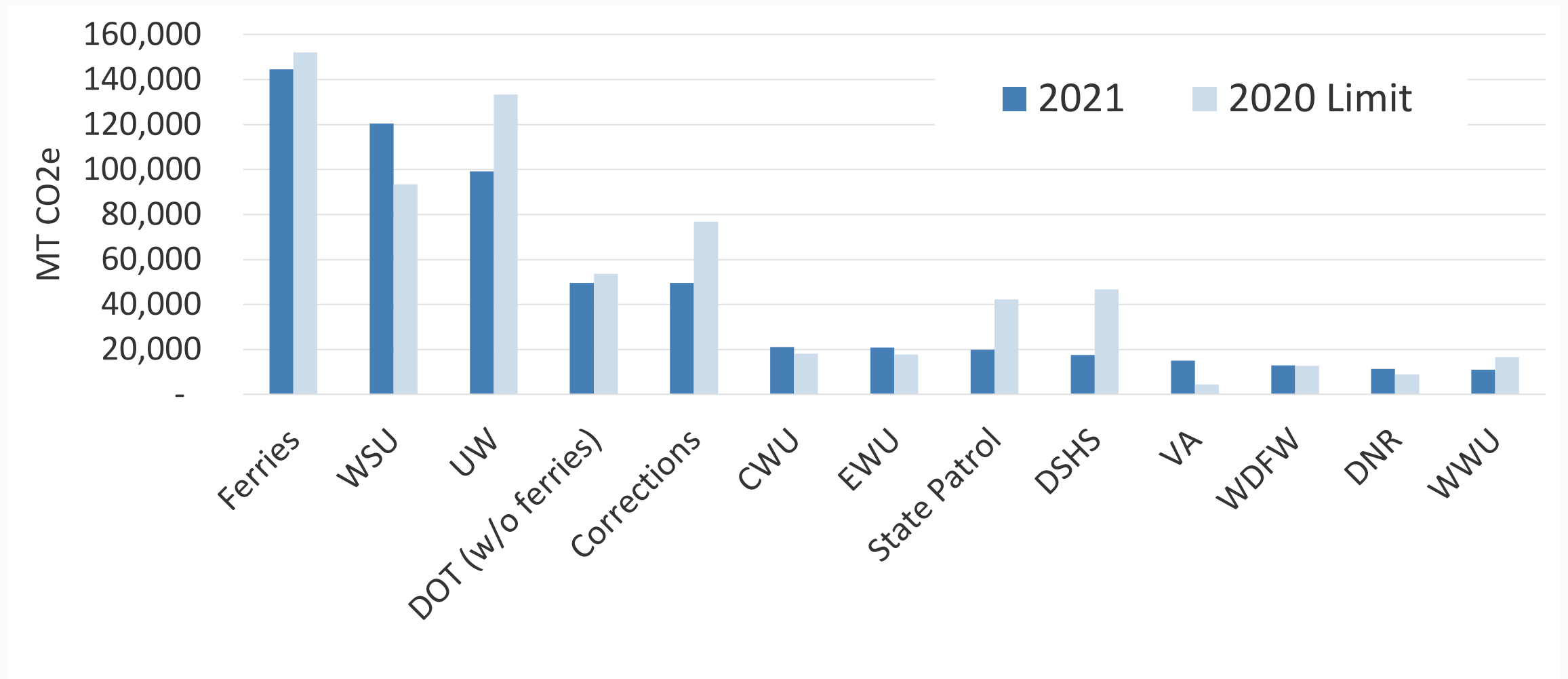
Looking to 2030

- 6 agencies have met their **2030** limits
- All state agencies combined must reduce by additional 34% to meet the 2030 limit

State Agency GHG Emissions by Sector



Largest State Agency Emitters



Renewable Energy Systems

- 9 agencies reported solar PV
- 335,000 kWh of electricity generation in 2021
- Two agencies reported ground-source heat pumps



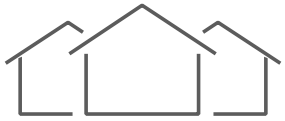
The background of the slide features a large, faint, circular seal of the State of Washington. The seal contains a portrait of George Washington and the text "THE STATE OF WASHINGTON" and "1889".

3.1 PROJECT OPPORTUNITY AND OVERVIEW

PRESENTED BY:

- HANNA WATERSTRAT, SEEP ASSISTANT DIRECTOR,
DEPARTMENT OF COMMERCE

We strengthen communities



**HOUSING
HOMELESSNESS**



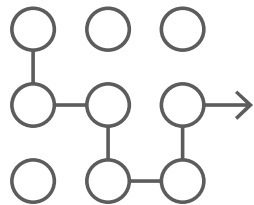
INFRASTRUCTURE



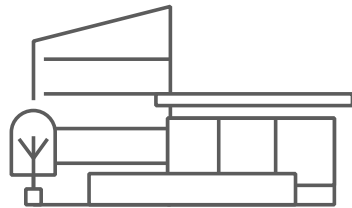
**BUSINESS
ASSISTANCE**



ENERGY



PLANNING



COMMUNITY FACILITIES



**CRIME VICTIMS &
PUBLIC SAFETY**



**COMMUNITY
SERVICES**

State agency greenhouse gas reduction strategies

New reporting requirements:

- Identify strategies to meet GHG emissions limits in RCW 70A.45.050
- Include recommendations on priority actions to reduce GHG emissions

Goal: Link GHG emissions data to agency decision-making.



GHG reduction strategy themes



Energy efficient buildings



Renewable electricity



Tracking energy data



Electric vehicle charging



Planning and resource allocation

GHG reduction strategies: Transportation

- Fleet electrification
- Improved vehicle utilization
- EV charging
- Remote meetings



GHG reduction strategies: Facilities

- LED lighting
- HVAC systems
- Clean Buildings Performance Standards (energy audits, sub-metering)
- DES Energy Program energy services performance contracts
- Downsize occupied square footage
- Incorporate energy efficiency with new leases and lease renewals
- New construction: Zero energy buildings
- Upgrade and electrify central plants and district heating systems

GHG reduction strategies: Renewable energy

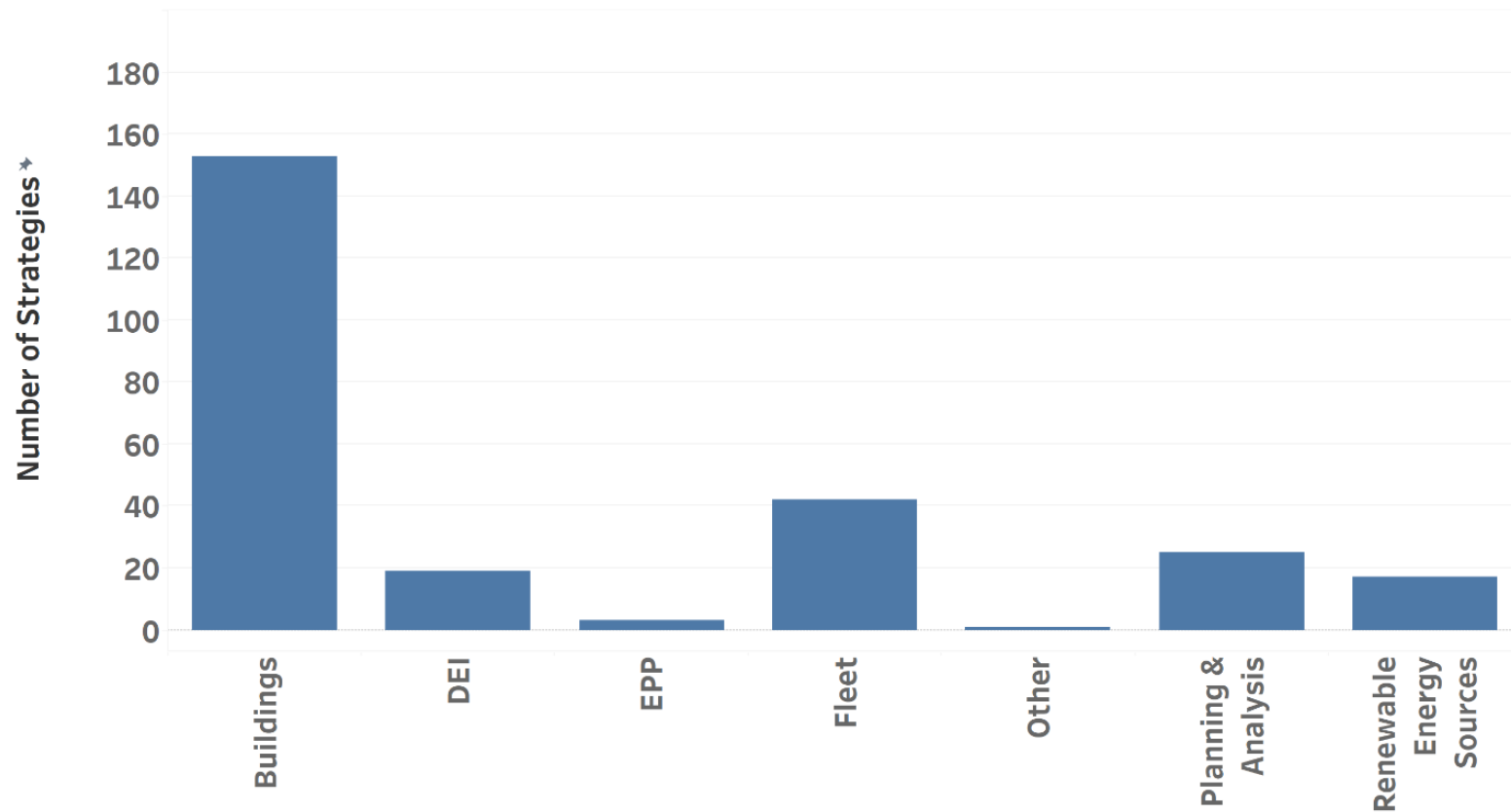
- Add on-site solar photovoltaic arrays
- Incorporate geothermal heating systems and ground-source heat pumps
- Sign power purchase agreements to maximize the use of renewable electricity from utility providers

GHG reduction strategies: Other

- **Planning and resource allocation:**
 - Dedicated staff resources for energy and sustainability work
 - Track and analyze energy use
 - Complete and implement campus master plans, energy management plans, climate action plans, and other strategic planning initiatives
- **Procurement:**
 - Energy efficient appliances and IT equipment

Long-term strategy breakdown

GHG Reduction Strategy Breakdown
Long Term (2050 Limit)



Challenges

Many agencies reported challenges relating to funding or financing work needed to reduce GHG emissions and comply with related laws and executive orders.



Recommendations

1. Support and incentivize state agency compliance with performance standards in the clean buildings law.
2. Install EV charging infrastructure at state facilities.
3. Upgrade and electrify district heating systems.
4. Maintain zero energy standards for new construction.
5. Explore innovative funding and financing mechanisms.



Governor Q&A



3.1 VOICE OF THE CUSTOMER – CHARGING STATIONS

PRESENTED BY:

- KELLY LERNER, CHIEF, LEASED FACILITIES & MAINTENANCE OPERATIONS, DEPARTMENT OF SOCIAL AND HEALTH SERVICES



Fleet Electrification Charging Forward

Vehicles, Infrastructure, and Operations Management Systems

December 7, 2022 Public Performance Review

Kelly Lerner

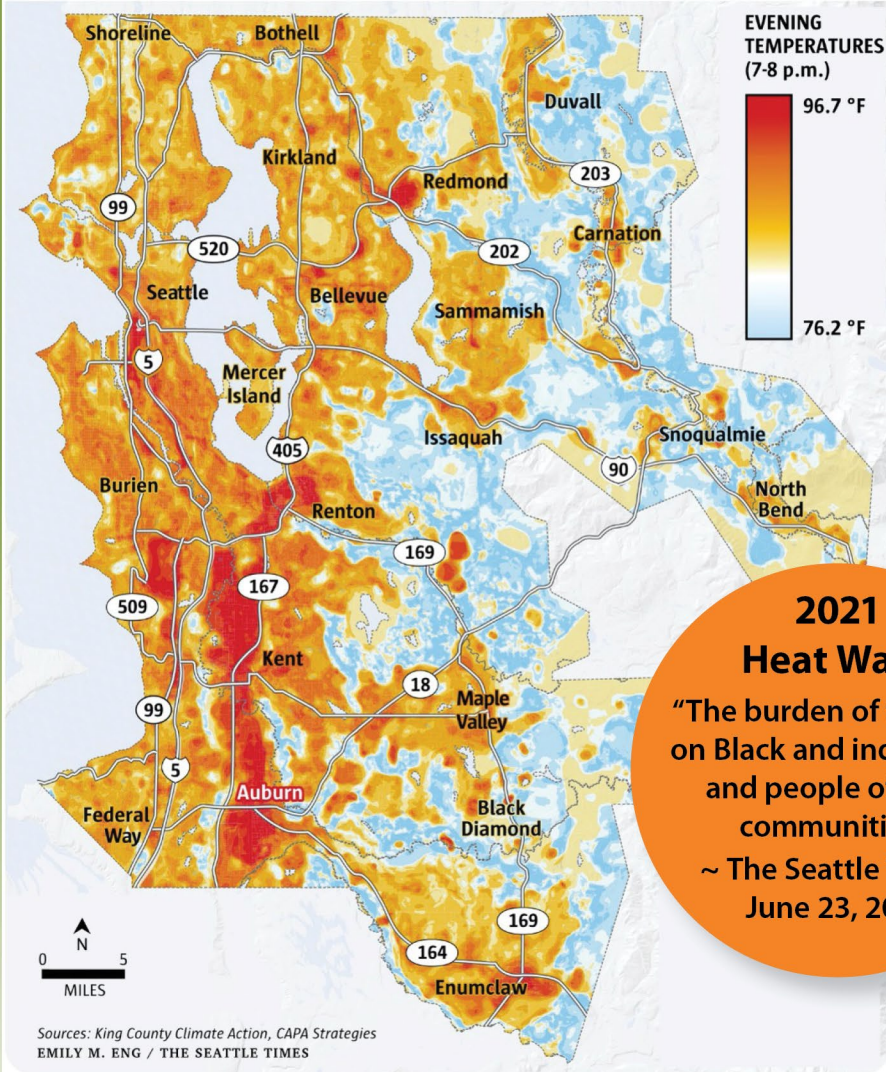
Chief of Leased Facilities and Maintenance Operations
Facilities, Finance and Analytics Administration, DSHS



Transforming lives

Map reveals King County's 'heat islands'

Volunteers collected temperature data across King County on an extremely hot day last July. The data show that impacts of high temperatures are not felt evenly. Some areas were more than 20 degrees hotter than others. Tree cover reduces heat, while roads, pavement and rooftops intensify heat.



Sources: King County Climate Action, CAPA Strategies
EMILY M. ENG / THE SEATTLE TIMES

"On the same day, two different neighborhoods can differ in temperature by as much as 13.9 degrees."
~ Gonzaga Climate Center, Sept 15, 2022

2021 Heat Wave
"The burden of that falls on Black and indigenous and people of color communities."
~ The Seattle Times, June 23, 2021

Spokane Beat the Heat Program



Residential areas with sparse canopy cover seem to retain excess heat throughout the day.



Large swaths of asphalt in commercial areas can spill concentrated heat into surrounding residential areas that lack protective vegetative buffers.



Residential areas that have a high percentage of canopy cover keep the neighborhood comparatively cooler than their counterparts.

DSHS is ALL IN on Fleet Electrification

Electric Vehicle Replacement

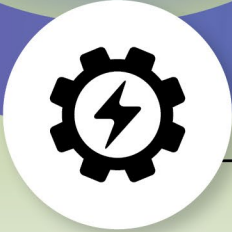


EV Charging Infrastructure

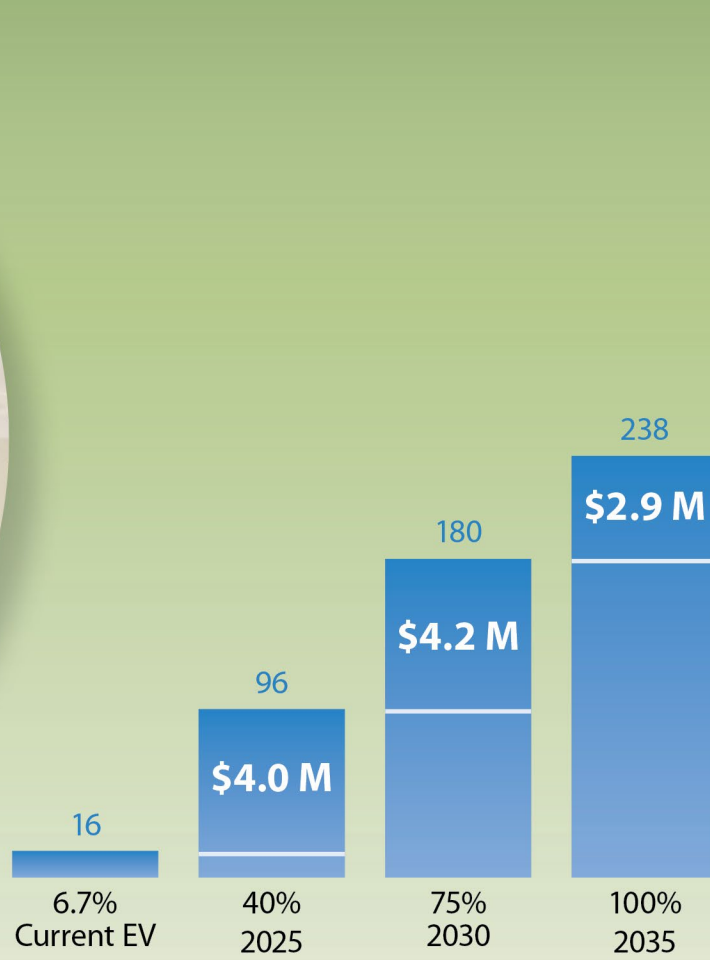
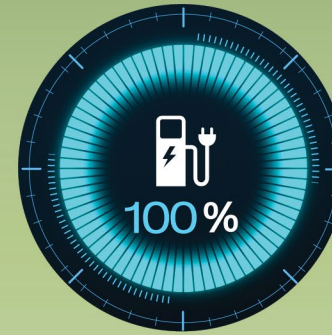


 Washington State
Department of Social
& Health Services
Transforming lives

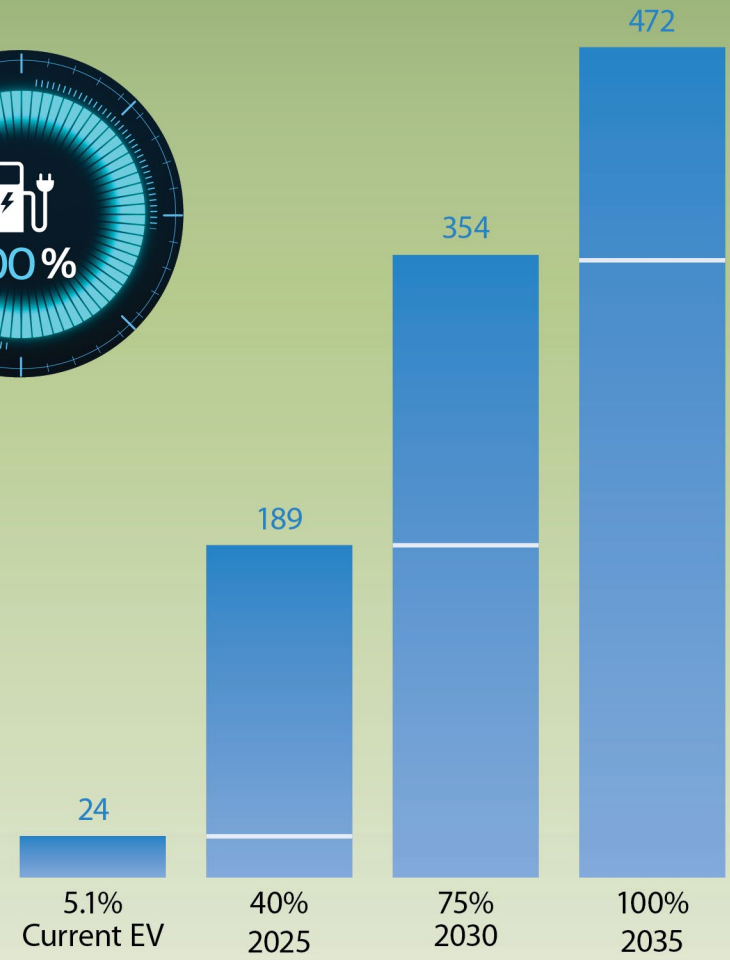
Operations Management Systems



Electric Vehicle Replacement Goals

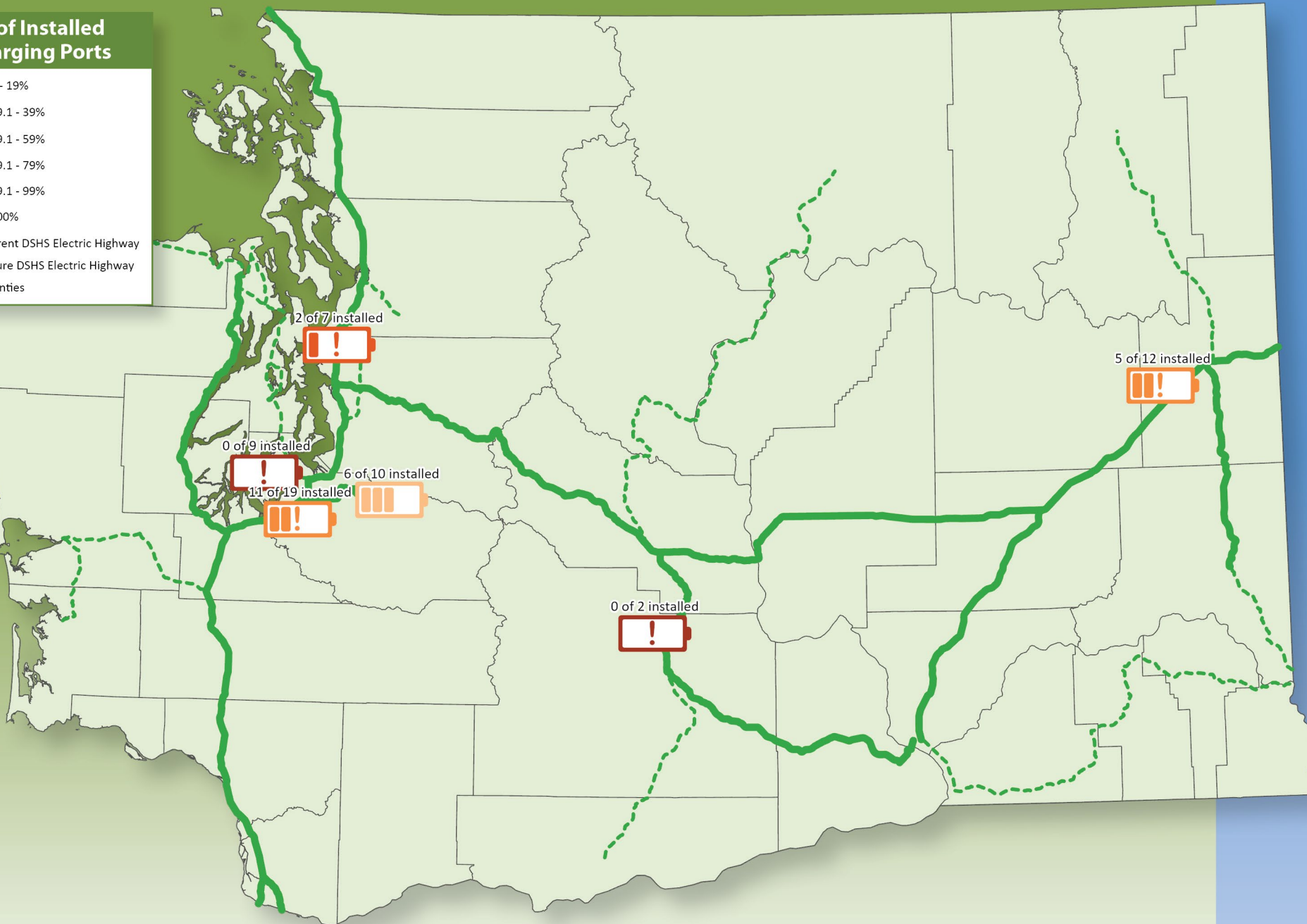
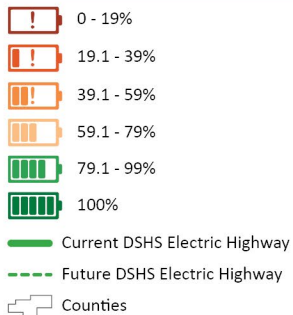


DSHS Owned Light Duty



DSHS Leased Light Duty

% of Installed Charging Ports



Owned Facilities EV Charging Ports

By 2035:

60 charging ports
at 7 campuses

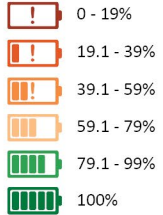
By 2040:

144 charging ports
at 8+ campuses

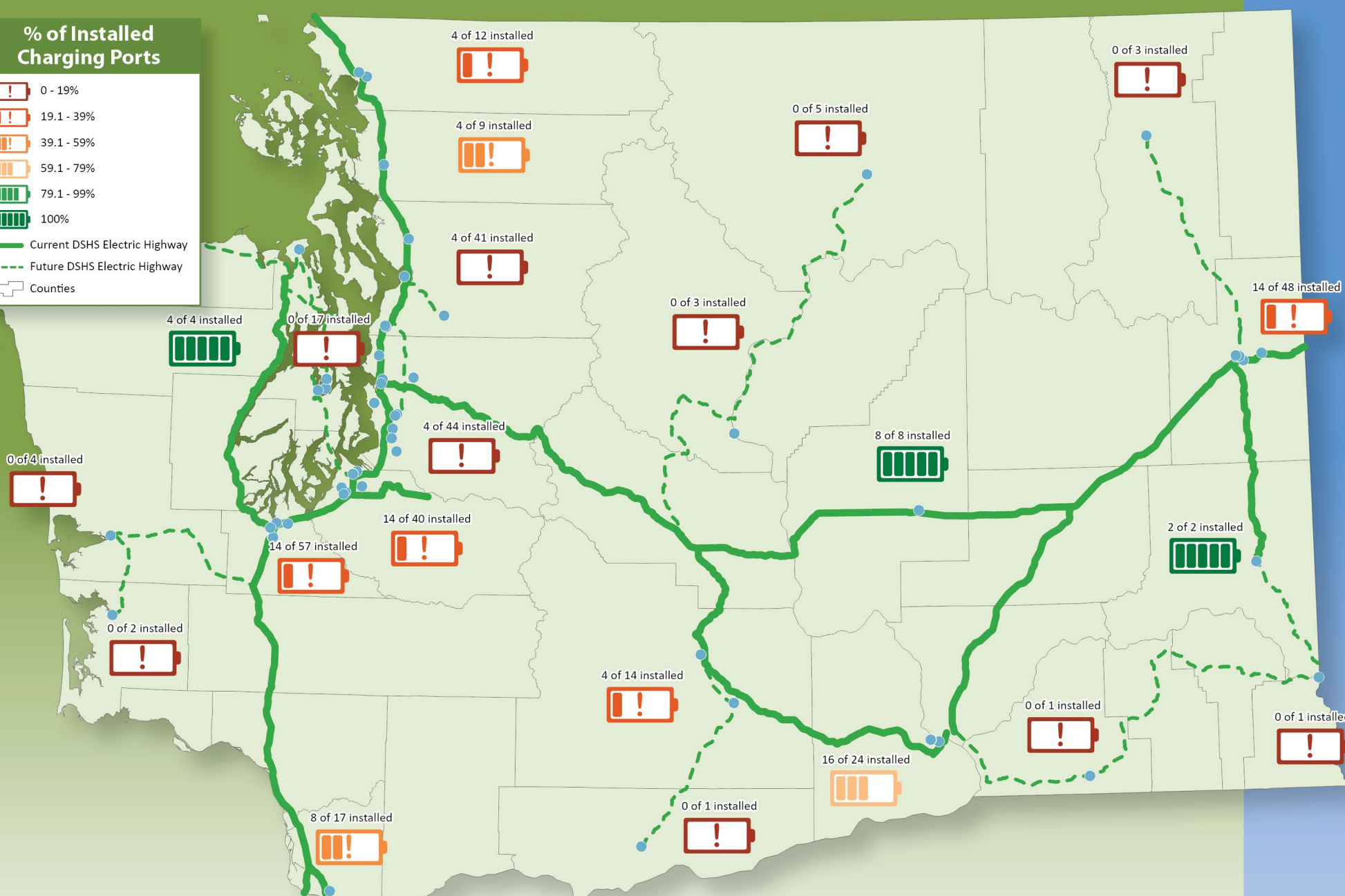
\$18 million

23-25 and
25-27 biennia
capital budget
requests

% of Installed Charging Ports



Current DSHS Electric Highway
 Future DSHS Electric Highway
 Counties



Leased Facilities EV Charging Ports

By 2025:
99 additional charging ports at 59 facilities

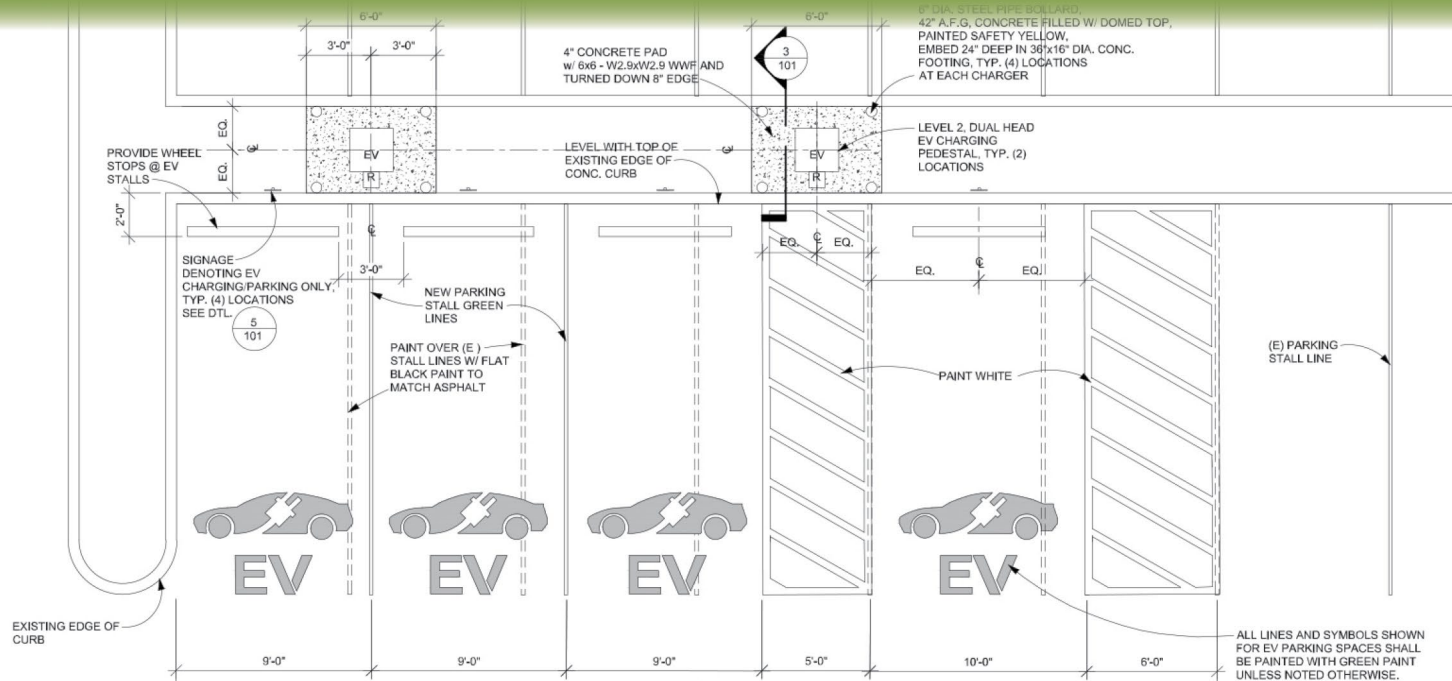
By 2035:
447 total charging ports at 99 facilities

\$7 million
23-25 and 25-27 biennia budget requests



Courtesy of Neeley Construction, Puyallup, WA

Why is EV Charger Installation so Expensive and Why Does it Take so Long?



ALL LINES AND SYMBOLS SHOWN FOR EV PARKING SPACES SHALL BE PAINTED WITH GREEN PAINT UNLESS NOTED OTHERWISE.

Management and Operations

Guiding Questions

- 🚗 How do we make the transition to an EV fleet seamless and accessible?
- 🚗 How do we manage and report on these new charging systems?
- 🚗 How do state agencies collaborate and leverage their EV charging infrastructure?



The Road Forward

Managing the Change

- 🚗 Sharing the WHY and creating a desire for EVs
- 🚗 Listening to objections and mitigating expressed barriers
- 🚗 Increasing the knowledge and abilities of our staff





We are driving hard towards our

Electrified Carbon-Free and Equitable Future



Governor Q&A



3.1 VOICE OF THE CUSTOMER – LABOR AND INDUSTRIES PUBLIC SAFETY LAB AND TRAINING FACILITY

PRESENTED BY:

- MAURICE PERIGO, ASSISTANT DIRECTOR, L&I

AGENDA

- Project Overview
- Energy Efficiency
- Sustainability
- Additional Highlights



Design Rendering – Main Entrance

Project Overview

Partnership Opportunity | Labor & Industries and Agriculture



Design Rendering – Street Entrance (View from L&I HQ)

Operational Benefits

- Facility Improvements
 - Functionality
 - Reliability
 - Safety & Security
- Consolidates WSDA Labs in one location
- Upgrades L&I Training for DOSH Inspectors
- Certification for Federal Funding

Energy Efficiency

The Road to Zero Net Energy

- Energy Use Index = 85 (kBtu/sf-yr)
 - State Ave for Laboratories = 240 EUI
- Enhanced Envelope / Wider Therm Range
- Optimized Natural Lighting Strategies
- Geothermal Wells w/Electric Heat Pump
- Active Chilled Beams & Radiant Slabs
- Dedicated Outdoor Air Sys. / Passive Vent.
- Heat Recovery Systems
- Occupancy Sensors / Controlled Outlets
- Infrastructure for future solar upgrade

Zero-Net Energy – Capable (Current)



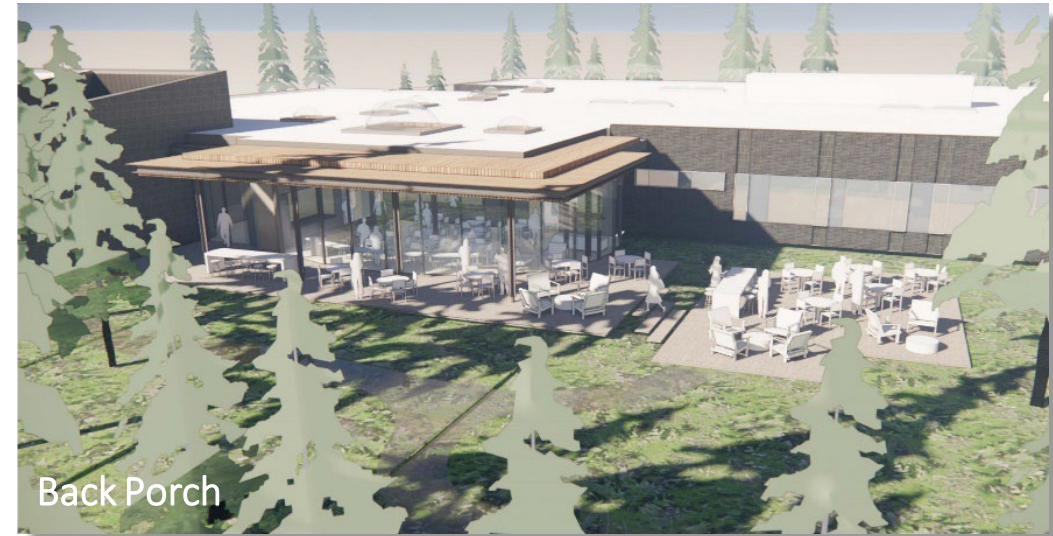
Zero-Net Energy (Future)



Sustainability

High Performance & Minimum Impact

- 75% Waste Diversion & Recycling
- Minimize Forest Impact
- Level 2 EV Charging w/Preferred Parking
- 100% On-site Storm Water Management
- 100% Electric Energy Facility
- Passive Air Systems & Low Flow Fixtures
- LEED v4 Gold Certification



Additional Project Highlights

“Why would I want to work here as a state employee?”

- Forest Trail System
 - Exterior Wi-Fi along trail w/seating
 - Connects to Tumwater Campus Trail System
- Natural Finishes in Main Corridors
- Gender Neutral Restrooms
- Great Location



Construction Pictures

Moving in Spring/Summer 2023





Governor Q&A



3.1 CURRENT WORK AND FUTURE COMMITMENTS

PRESENTED BY:

- TARA SMITH, DIRECTOR, DEPARTMENT OF ENTERPRISE SERVICES
- MICHAEL FURZE, ASSISTANT DIRECTOR, DEPARTMENT OF COMMERCE



Results WA

Current work & future commitments

TARA C. SMITH, DIRECTOR

December 2022

OUR COMMITMENT

Prioritizing battery electric/zero-emission vehicles



Executive Order 20-01

Calls for prioritizing Battery Electric Vehicles (BEV) for vehicle leases or purchases and improving BEV infrastructure

Executive Order 21-04

Implementation guidance, plans and support

PROGRESS MADE 2021 - 20

- ✓ Created an **Electric Vehicle Supply Equipment (EVSE) Implementation Team**
- ✓ Leveraged a cooperative purchasing agreement to give agencies **more pathways to acquire BEVs**
- ✓ **Increased BEVs in DES fleet** despite challenging market conditions
- ✓ Created **Agency Transportation Officer dashboard** to promote EV adoption
- ✓ Created a **mandatory approval process** for non-BEV purchases for cabinet agencies



Current projects

- Begun investing \$2.6M in supplemental budget dollars on EV infrastructure installation at state office locations throughout Washington
- Selected 10 projects
 - 1 solar canopy
 - 73 chargers total (61 L2 chargers & 12 L3 DCFC chargers)
- Charging
 - Level 2: 240V AC
(typical full charge in 4.5 hours)
 - Level 3 or DCFC: High Voltage DC
(typical full charge in less than an hour)



WHAT'S NEXT

- Monitoring vehicle availability
- Infrastructure
- Budgeting
- Producing a legislative report outlining a zero-emission vehicle implementation strategy for state fleets

OUR COMMITMENT

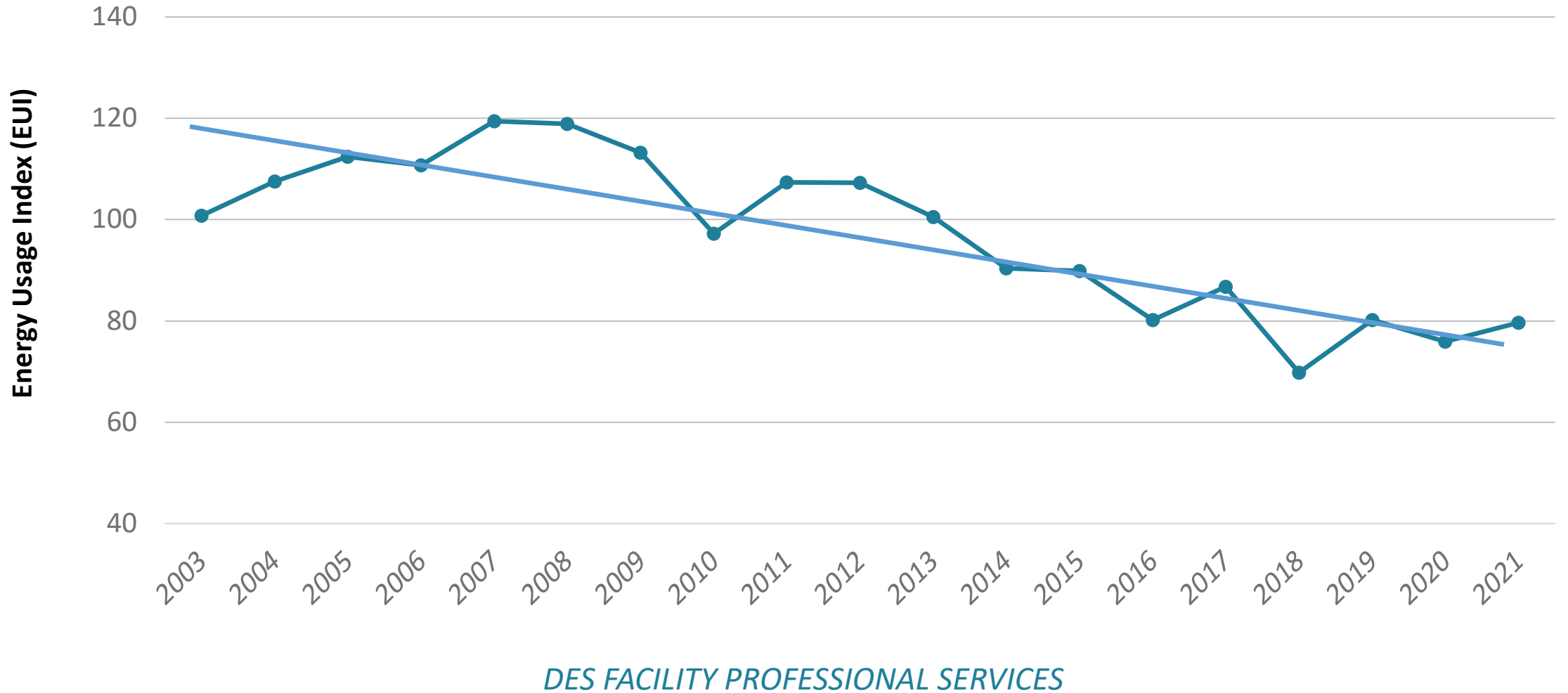
Reducing building emissions



Executive Order 20-01

Actively promote energy efficiency in owned and leased facilities and support the development of new construction that meets the zero-energy building standard

CAPITOL CAMPUS ENERGY USE



Clean buildings

Benchmark campus energy use by updating energy monitoring systems

Work started in 2022

DES FACILITY PROFESSIONAL SERVICES



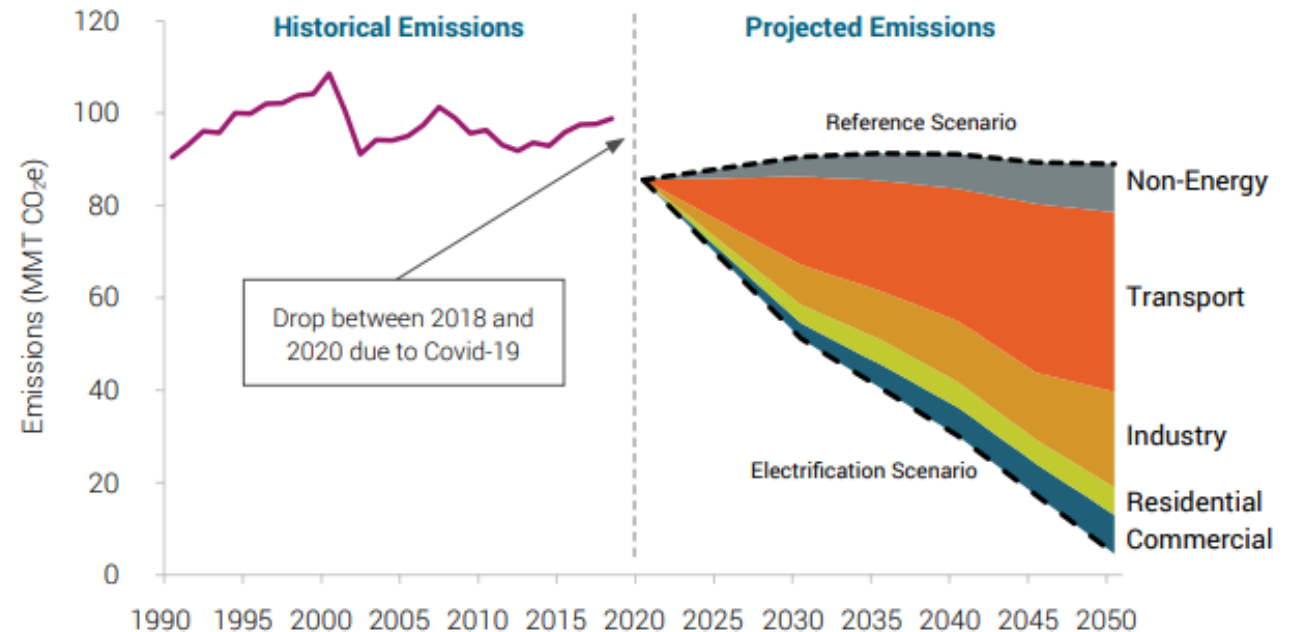
Achieving decarbonization in Washington: The road to 2050



State Energy Strategy (2021)

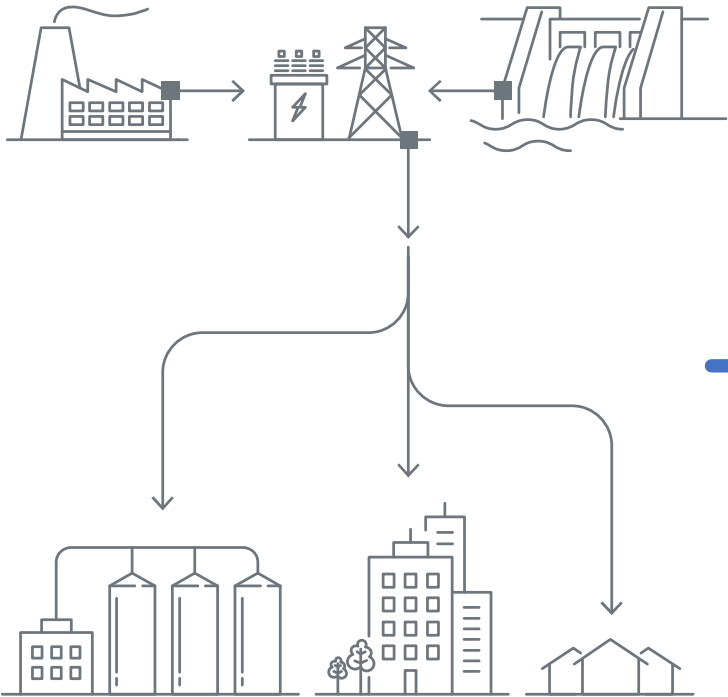
- An overarching energy vision for the state
- Public process
- Comprehensive decarbonization modeling spanning 30 years

FIGURE 1. HISTORICAL AND PROJECTED GROSS GREENHOUSE GAS EMISSIONS IN WASHINGTON STATE

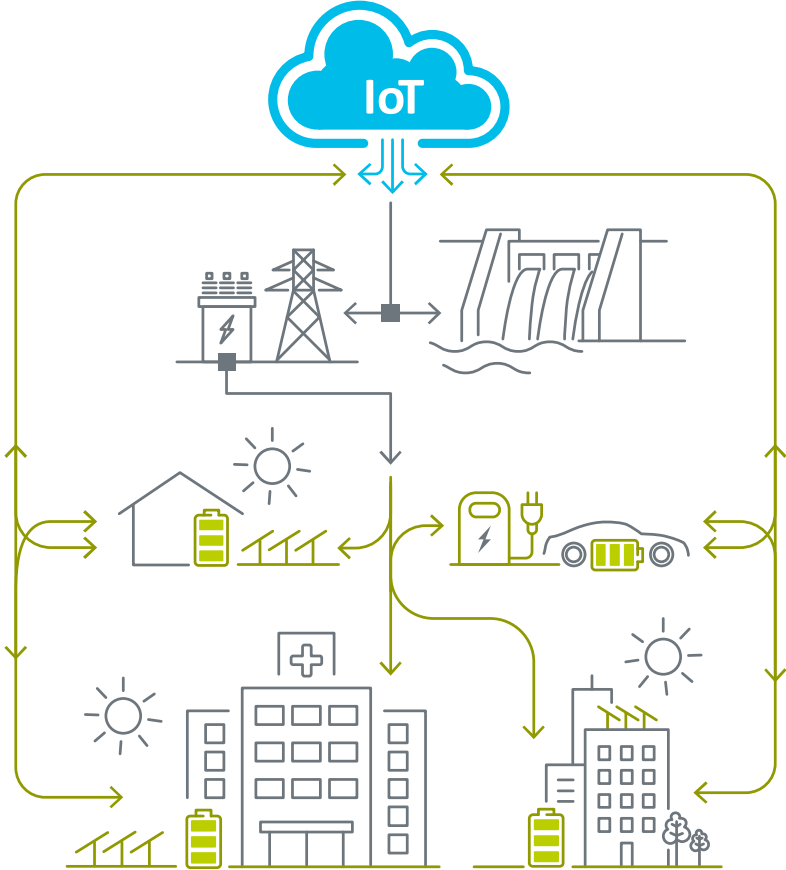


Source: Washington State Department of Ecology for historical emissions (2018 value is preliminary).
Appendix A – Deep Decarbonization Pathways Modeling Technical Report, December 11, 2020 (p. 26).

The challenges



Legacy grid

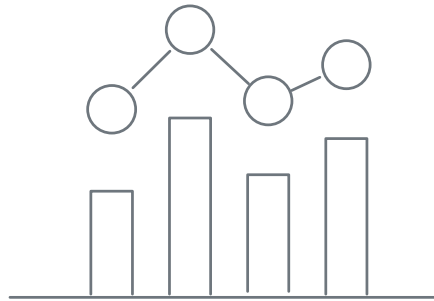


Future grid

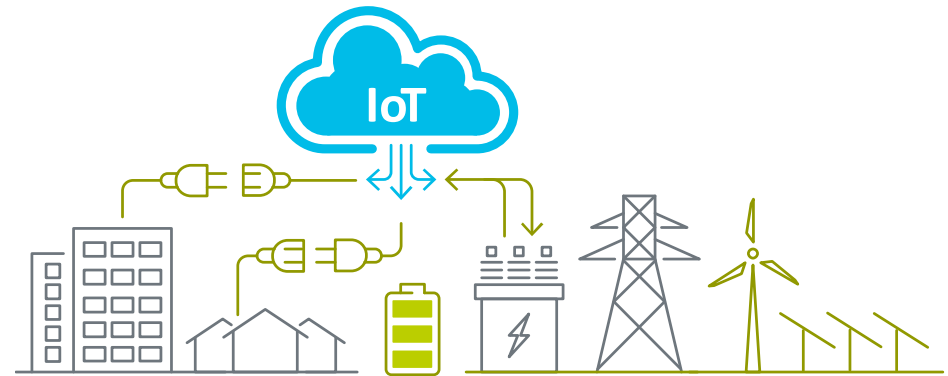
Our approach



Conduct research and development



Demonstrate feasibility



Implement at scale

Turning the strategy into policy

- Passage of significant legislation and reforms
 - Comprehensive environmental justice statute – Healthy Environment for All (HEAL) Act (2021)
 - Economy wide cap-and-invest program – The Climate Commitment Act (2021)
 - Clean fuel standard (2021)
 - Multi-Year Rate Reform and Energy Assistance Statute (2021)
 - Transportation planning laws (2021-22)
 - Extension of Clean Buildings Performance Standard (2022)
 - Rollback of natural gas line-extension subsidies (2022)
 - Hydrogen legislation (2022)

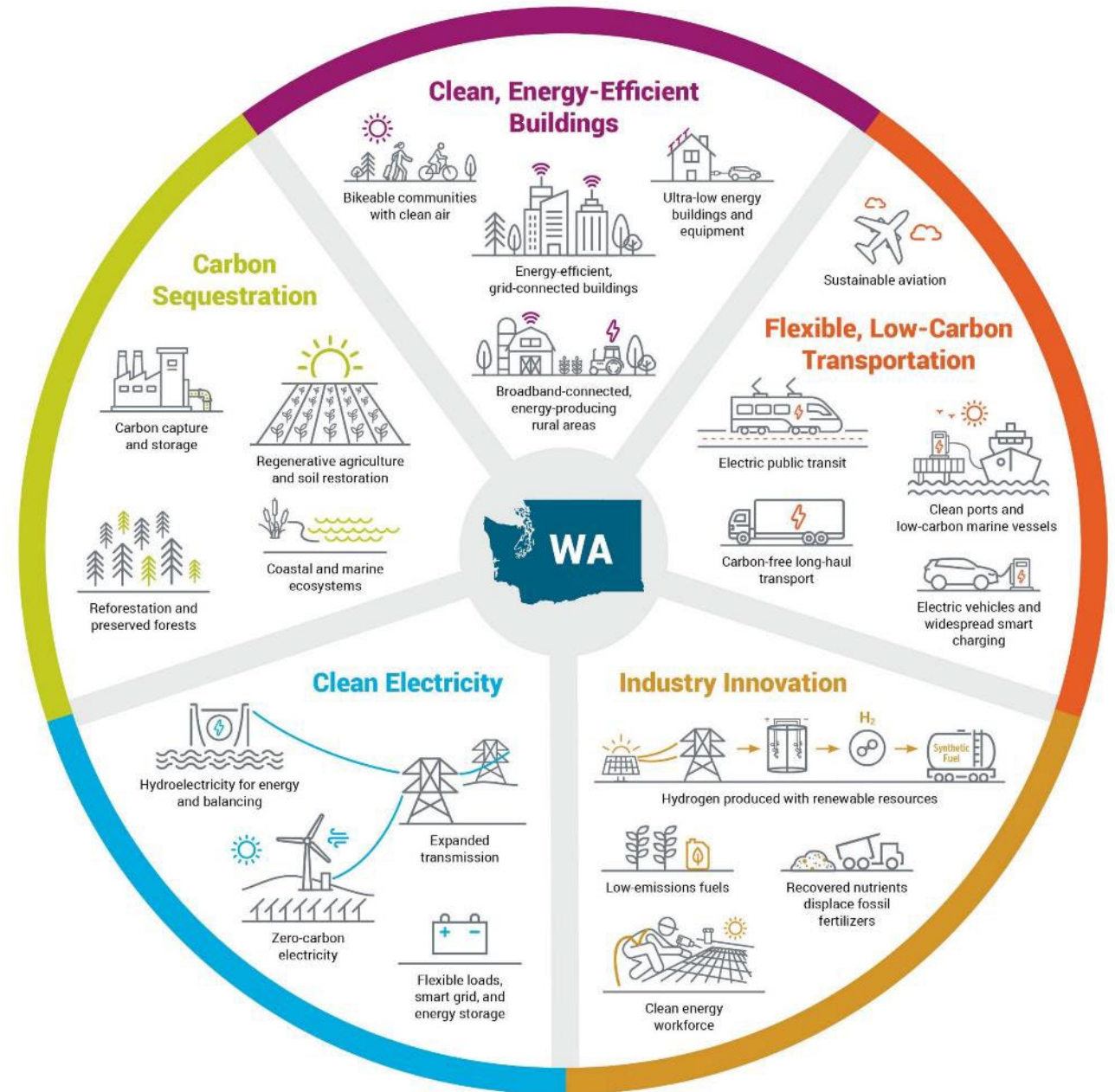


Moving forward

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.



Where can state agencies contribute?

Buildings

- Establish a building decarbonization policy framework
- Maximize energy efficiency and electrification in buildings



Transportation

- Decarbonize transportation energy through electrification and renewable fuels
- Use energy efficiently and thoughtfully
- Make it easier to learn about, acquire and charge clean vehicles of all kinds

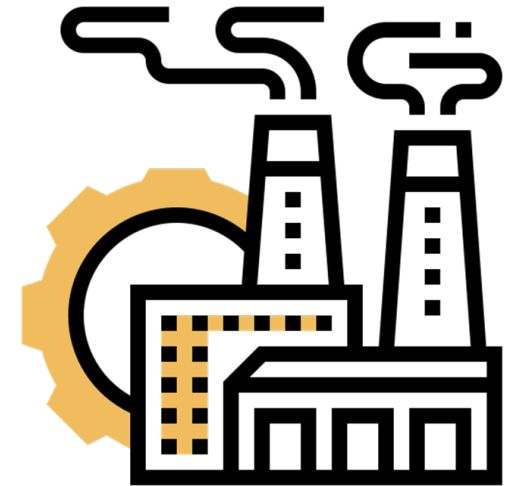
Where can state agencies contribute?

Industry

- Develop and implement a coordinated clean energy industrial policy
- Buy Clean, Buy Fair and consumption-based emissions
- Leverage the economic transition to create and support inclusive, living-wage jobs

Electricity

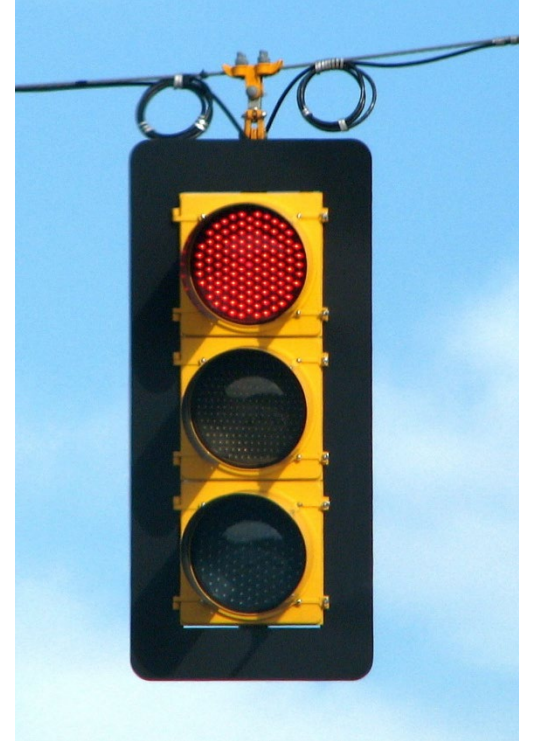
- Accelerate investment in clean generating resources



Biennial Energy Report

The purpose of this update is to communicate prioritized actions to the Legislature, interested stakeholders and the public more broadly.

- Report to Legislature in December 2022
- Highlights ongoing state agency work across sector chapters
- Highlights opportunities for state agencies to be part of the broader state energy strategy





Governor Q&A



Closing Remarks



THANK YOU FOR ATTENDING TODAY!

PLEASE TAKE A MOMENT TO
COMPLETE OUR BRIEF SURVEY

YOU CAN VIEW THE RECORDING OF
TODAY'S MEETING AT:

[HTTPS://RESULTS.WA.GOV/MEASURING-
PROGRESS/PUBLIC-PERFORMANCE-REVIEWS](https://results.wa.gov/measuring-progress/public-performance-reviews)