

Investments in Electric Vehicle Charging Corridor Infrastructure

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Today's Highlights

- Advancing Electric Vehicles in Washington State
- Multi-State Collaboration—West Coast Electric Highway
- National EV Infrastructure (NEVI) Deployment Program
- ZEV Mapping and Forecasting Tool



Washington Gov. Inslee aims to “Electrify Everything that Moves”



- Cars and Trucks
- State Fleet vehicles
- Transit Buses
- School Buses
- Ferry Vessels
- Electric Freight
- Forklifts
- Port and Airport Equipment

100,000+ EVs are registered in Washington, Department of Licensing <https://data.wa.gov>

West Coast Electric Highway



- Accelerating EV adoption by promoting robust electric vehicle fast charging corridors
- Connecting communities and enabling long distance travel
- Seamless EV driver experience
 - Equipment specifications
 - Highway signs
 - Branding and marketing
- Interstate 5, State Route 99, US 101, and other major highway corridors
- Common vision, patchwork of funding sources
- Opened for public in 2012

www.westcoastgreenhighway.com

WSDOT Electrification Programs

- Green Transportation Capital grant program for zero emission transit buses and infrastructure
- First Mile/Last Mile Grants
- ZAP (Zero-Emissions Assistance Pilot) ZEV carsharing for communities of low income
- ZEVIP (Zero Emission Vehicle Infrastructure Partnerships) grants for highway corridors
- WSDOT passenger fleet transition to EVs
- WSF ferry vessel conversion and charging at ferry terminals

www.wsdot.wa.gov



Washington State EV Council

Move Ahead Washington, [SB 5974](#), Sections 427-429 directs creation of an Interagency EV Coordinating Council (IEVCC), responsible for coordinating the state's transportation electrification efforts to ensure the state is leveraging state and federal resources to the best extent possible and to ensure zero emissions incentives, infrastructure, and opportunities are available and accessible to all Washingtonians.

Participating Agencies:

1. Commerce (co-lead)
2. Transportation (co-lead)
3. Financial Management
4. Ecology
5. Enterprise Services
6. SEEP
7. Agriculture
8. Health
9. Utilities
10. OSPI student transportation

IEVCC Responsibilities include:

- a) Development of a statewide transportation electrification plan to meet the Clean Cars 2030 target
- b) Identification of all electric vehicle infrastructure grants related including state, federal, and other funds;
- c) Coordination of grant funding criteria across agency grant programs
- d) Development of a robust outreach plan
- e) Creation of an industry EV advisory committee;
- f) Ensuring the statewide transportation electrification strategy, grant distribution, programs, and transportation electrification activities benefit vulnerable and overburdened communities.

National EV Infrastructure (NEVI)

\$5B FHWA formula funds to state DOTs for deployment of Electric Vehicle Charging Infrastructure to:

- Put the U.S. on the path to a network of 500,000 EV chargers.
- Accelerate the adoption of EVs.
- Ensure convenient, reliable, affordable, and equitable charging experience for all.
- Increase charging access in rural, underserved & overburdened communities.
- Build out [alternative fuel corridors](#).



National EV Infrastructure (NEVI)

Requirements: Minimum four 150kW CCS DCFC per site, power capability 600 kW+ 50 miles apart along Alternative Fuel Corridors, within 1 mile of highway

Eligible Activities:

- Acquisition or installation of EV charging infrastructure.
 - Operating assistance (not to exceed 5 years)
 - Installation of traffic control devices & signs
 - Development phase activities
 - Mapping and analysis activities
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- Rules and standards under development
 - Complements \$2.5 billion in federal grants for Charging and Fueling Infrastructure
 - U.S. Joint Office of Energy and Transportation <https://driveelectric.gov>

Goals of Washington's NEVI Plan

1. **Continuity:** Fill gaps in the EV infrastructure network.
2. **Alternative Fuel Corridors:** Certify existing and identify future roadways
3. **Equitable Charging Infrastructure:** Prioritize economically disadvantaged and rural communities.
4. **Equity and Innovation in Contracting:** Contracting will be conducted in away to ensure resources are expended equitably and to award innovative approaches to implementation.
5. **Plan support:** Prioritize and build in collaboration with public organizations, in support of local/regional plans.
6. **Resiliency & Reliability:** Where possible, provide multiple charging options, with capacity to meet future demand for EV infrastructure. Establish plans for operations, maintenance, and emergency response.
7. **Accessibility:** Easy to locate and use EV infrastructure at any point along the corridor. ADA and Universal Design considerations.
8. **EV Adoption:** Reach 500,000 electric vehicle registrations by 2027.

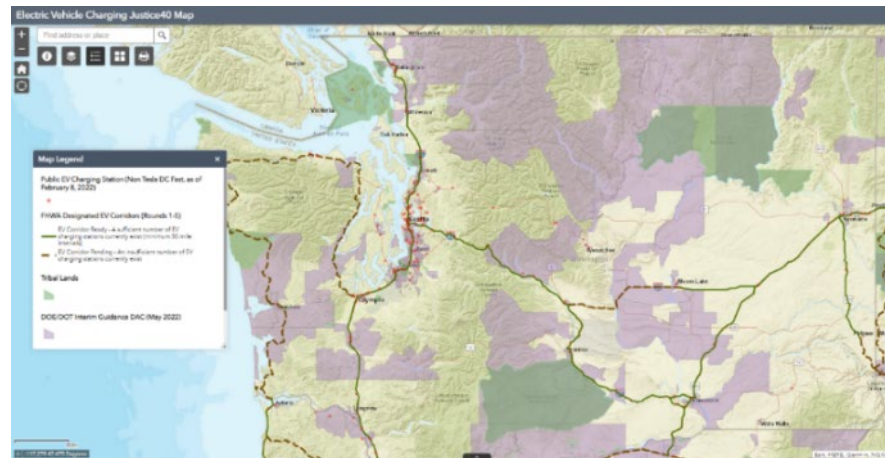
Equity Considerations–Justice40

Justice40 Initiative aims to deliver 40 percent of the overall benefits of federal investments in climate and clean energy, including sustainable transportation, to disadvantaged communities.

Identify Disadvantaged Communities (DACs)

- Transportation access disadvantage
- Health disadvantage
- Environmental disadvantage
- Economic disadvantage
- Resilience disadvantage
- Equity disadvantage

Measure benefits DACs



<https://www.transportation.gov/equity-Justice40>

Equity Objectives

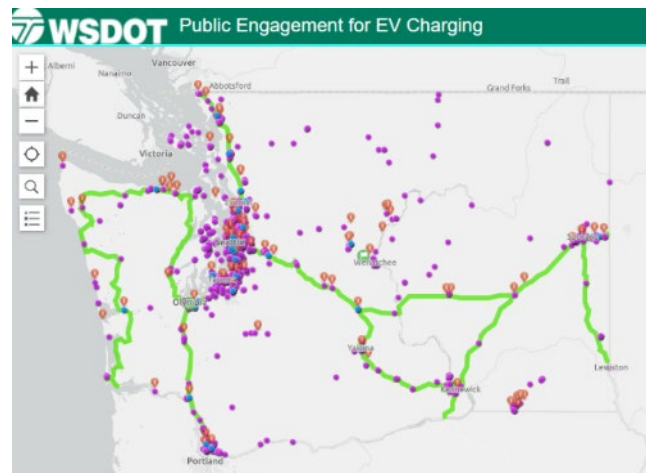
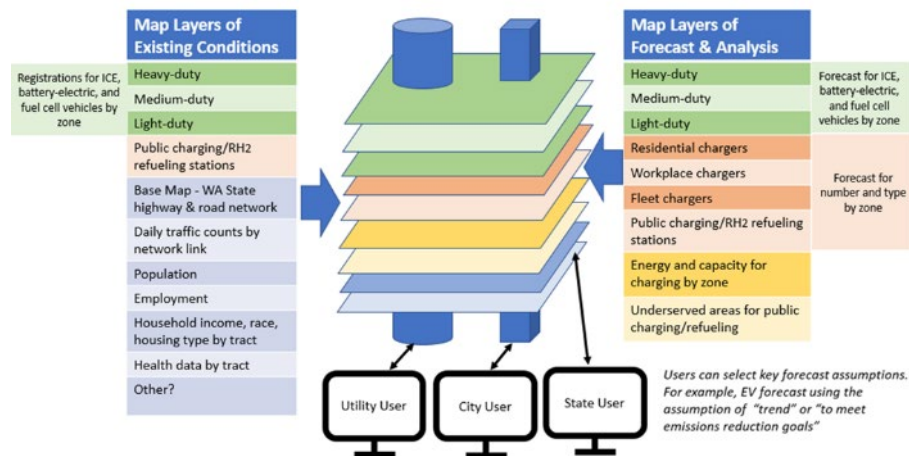
- Accelerate equitable adoption of EVs, including for those who cannot charge at home.
- Implement the Justice40 goal that 40% of overall benefits flow to DACs (Federal).
- Identify priority census tracts that benefit nearby EEJ underserved communities.
- Decarbonize the transportation sector that operates in EEJ underserved communities.
- Increase diversity in science, technology, engineering, and mathematics (STEM) jobs through EV charger placement.
- Increase workforce development opportunities for EEJ underserved communities through EV charger placement.
- Abide by Healthy Environment for All (HEAL) Act.



ZEV Mapping & Forecasting Tool

HB 1287 Zero-Emission Vehicles - Preparedness for a Zero Emissions Transportation Future

WSDOT, in consultation with Ecology, Commerce, and the office of Equity, must develop and maintain a publicly-available mapping and forecasting tool that provides locations and essential information of charging and refueling infrastructure to support forecasted levels of EV adoption, travel, and usage across Washington.



Funded at \$8.5 million through the Commerce Operating Budget.

WSDOT's IT/GIS team is securing an IT business analyst to develop the detailed vendor specifications and data management plan.

Thank you

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NEVI Plan: <https://wsdot.wa.gov/construction-planning/statewide-plans/washington-state-plan-electric-vehicle-infrastructure-deployment>