

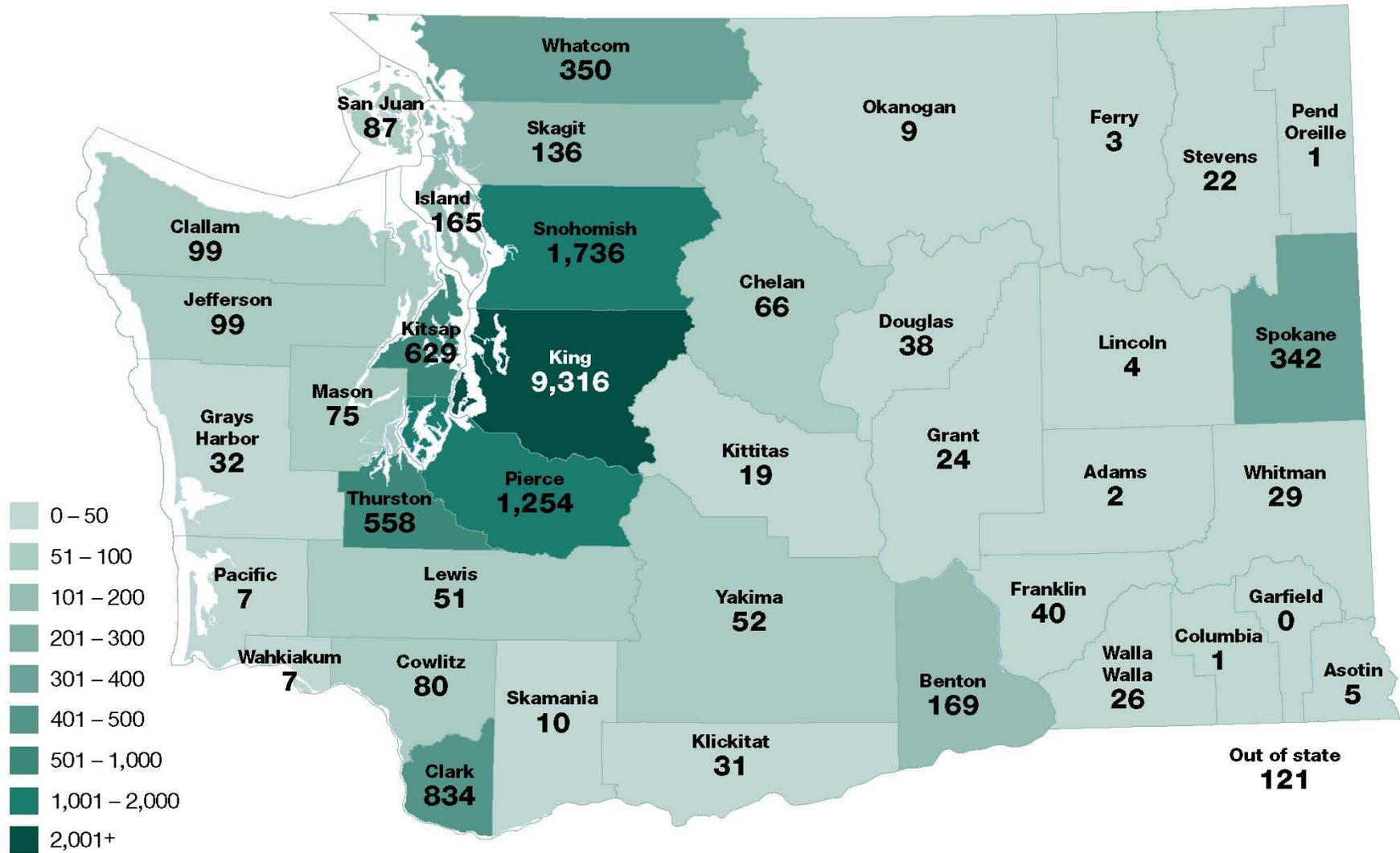
# Electric Vehicles: Expanding the Pathways



**Tonia Buell**  
Project Development Manager  
Innovative Partnerships

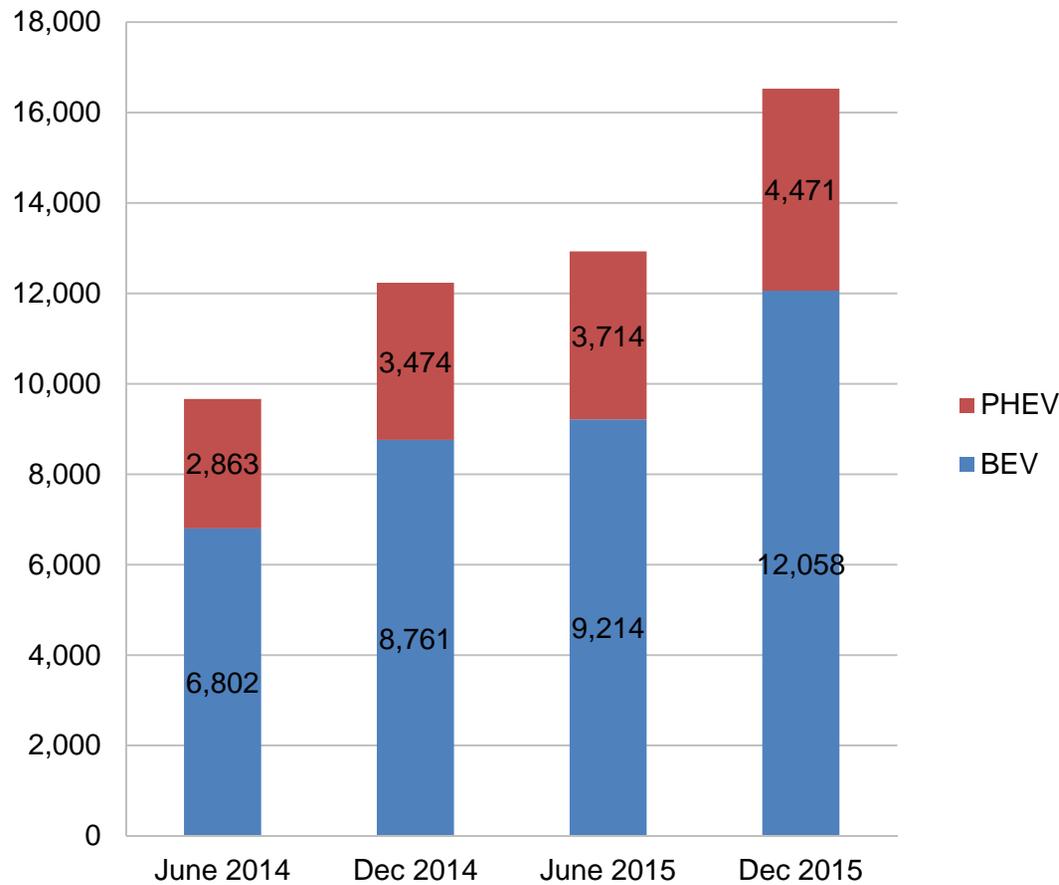
# 16,529 Plug In Electric Vehicles Registered in Washington

As of December 31, 2015



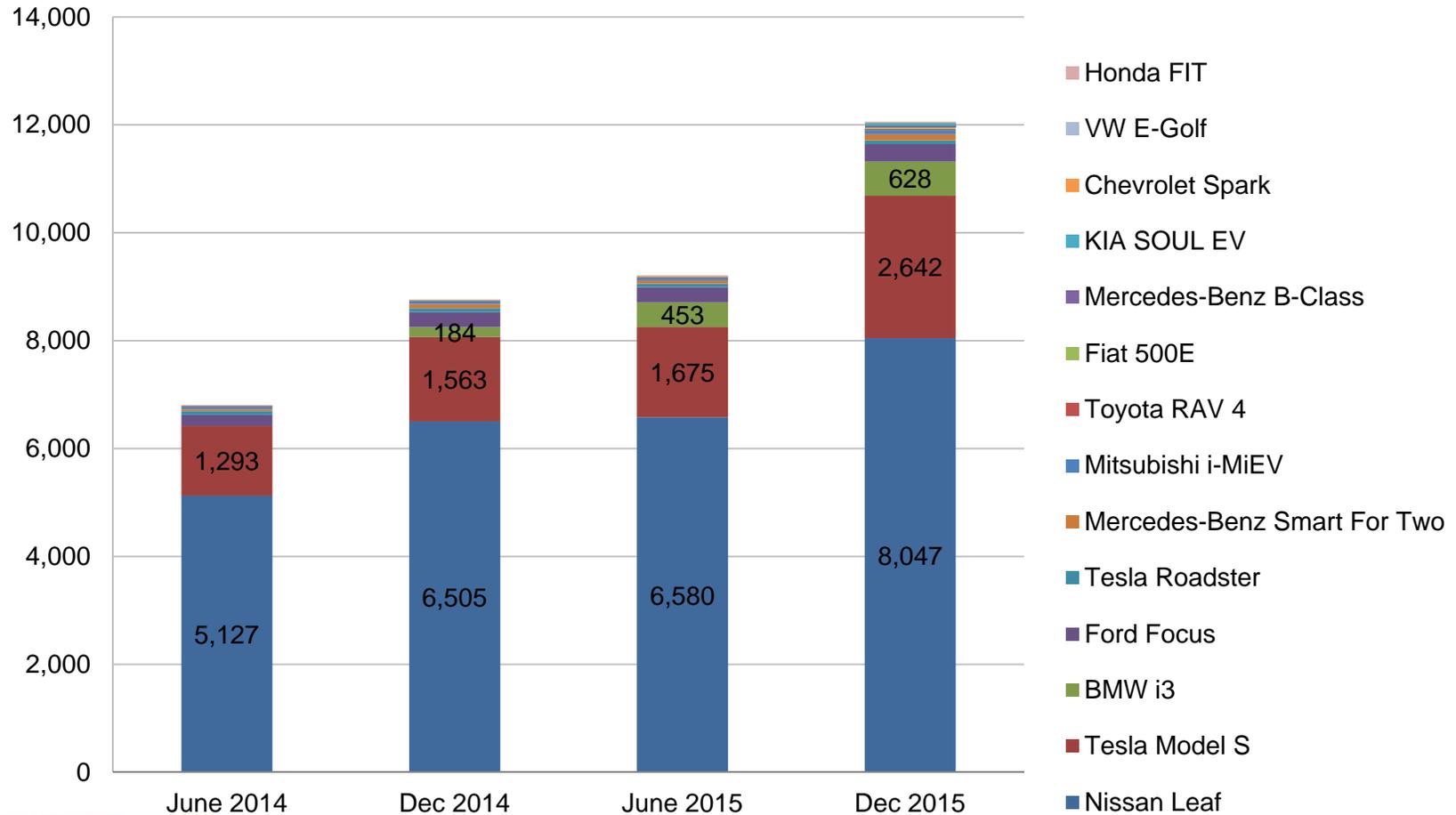
Map includes Electric Vehicles (EVs) produced by major automakers since about 2011. It does not include cars that were converted to EVs by their owners, neighborhood EVs or EV models from the 1990's that are still registered in Washington, or motorcycles. WSDOT created this map based on data provided by the Washington State Department of Licensing.

# Washington's PEV Registration Growth



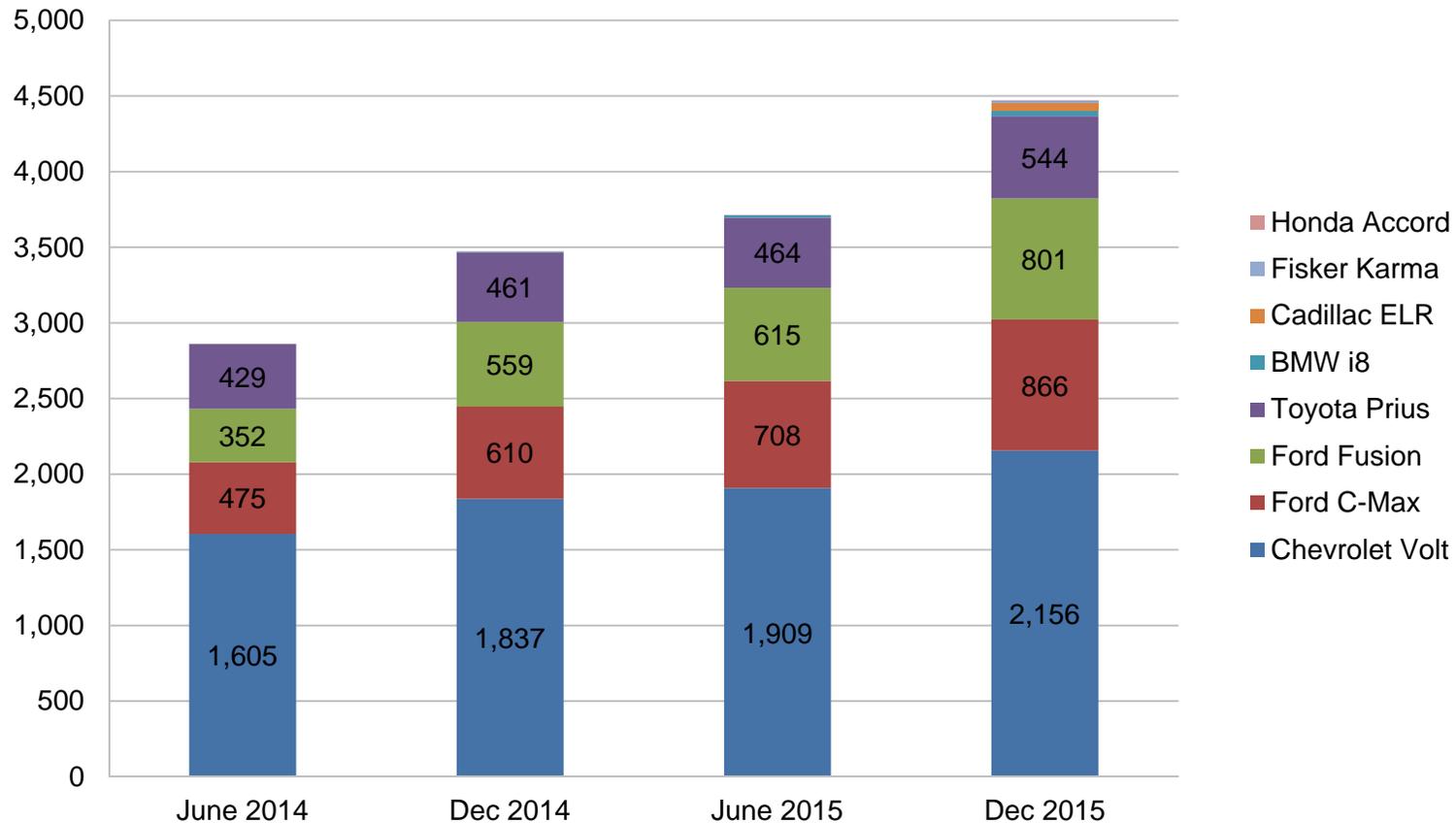
# Washington's PEV Registration Growth

## Battery Electric Vehicle Registrations by Model



# Washington's PEV Registration Growth

## Plug-In Hybrid Electric Vehicle Registrations by Model



# West Coast Electric Highway



## Unique EV Driving Experience from BC to BC

- Equipment Specifications
- Highway Signs
- Branding and Marketing

## Fast-Charge Site Criteria:

- Within ½ mile of highway interchange
- Safe and convenient access
- Parking spaces
- Restrooms and drinking water
- Shelter and lighting
- 480V 3-phase electric power supply
- Customer amenities (food, traveler info)





# DC Fast Charging for California's Corridors



- Complete the West Coast Electric Highway.
- Awarded \$8.8m in state funds to fund DC fast chargers on north-south portions of I-5, SR 99 and US 101.
- Coordinate with regional planning councils as California is complex:
  - 482 Municipalities
  - 58 Counties
  - 170,000 miles of roadways
- Regions have unique EV micro-climates and topography that require region-specific infrastructure plans.
- Regions have varied land-uses, unique driver characteristics, travel patterns, and objectives for PEV policies.

# EV Fast Charging Network I-5 Corridor

(Regional Commuter)



Bellingham, Exit 252  
**Sehome Village**



Tumwater, Exit 102  
**Shell Station and Deli Mart**



Centralia, Exit 82  
**Wendy's**



Burlington, Exit 229  
**Outlet Shoppes at Burlington**



Castle Rock, Exit 49  
**Cascade Select Market**



Ridgefield, Exit 14  
**Country Café**

# EV Fast Charging Along US 2, I-90 Corridors



(EV Tourist)



**Sultan Visitor Information Center**



**Skykomish Sky Deli**



**Snoqualmie Pass Chevron**



**Leavenworth City Hall**



**Wenatchee Convention Center**



**Cle Elum Suncadia Resort**

# Media Relations and Partnership Building



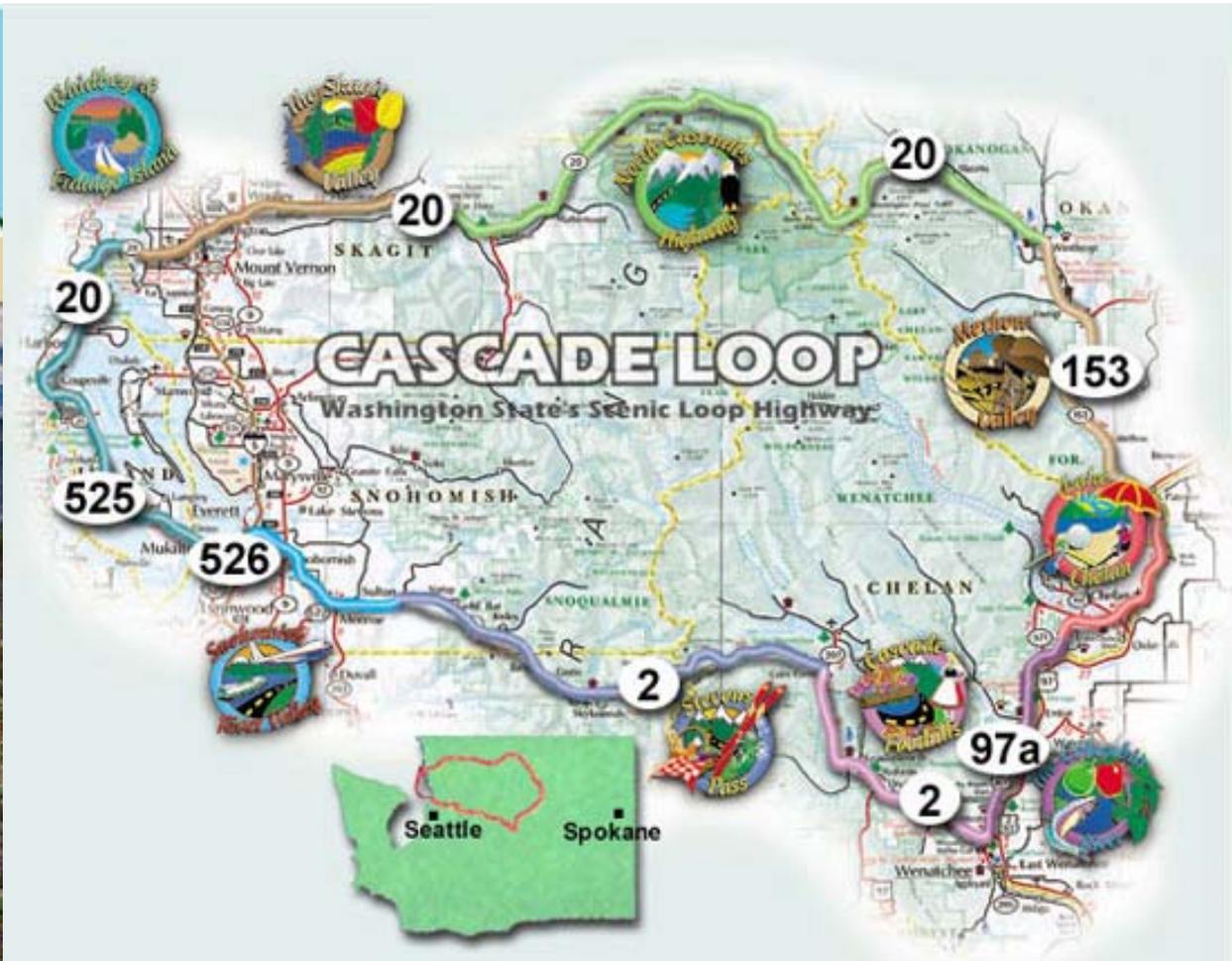
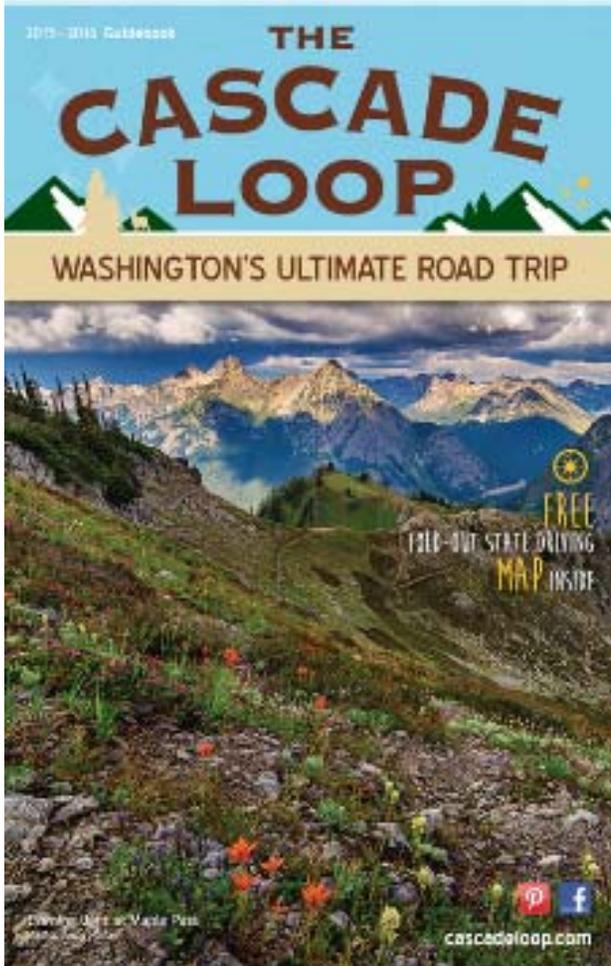
# Special Events and Outreach



# International All Electric Road Rally



# Eco Tourism



# Consistent Highway and On-Site Signage

## Roadway Directional Signs

State Highways, Local Roads, City Streets



D9-11b (alternate) EV Charging Station Symbol

## Regulatory Signs & Striping

"No Parking Except Electric Vehicle Charging"



British Columbia



Washington state law "de-ICEing bill" (SB 5849)

[www.westcoastgreenhighway.com/evsigns.htm](http://www.westcoastgreenhighway.com/evsigns.htm)

# Joint Transportation Committee Study on EV Charging Business Models

Findings: Need to strengthen and expand the state highway DC fast charging network, fill infrastructure gaps, and encourage private investment through government intervention in the short-term.



*EV Travel to and within Ocean Shores*



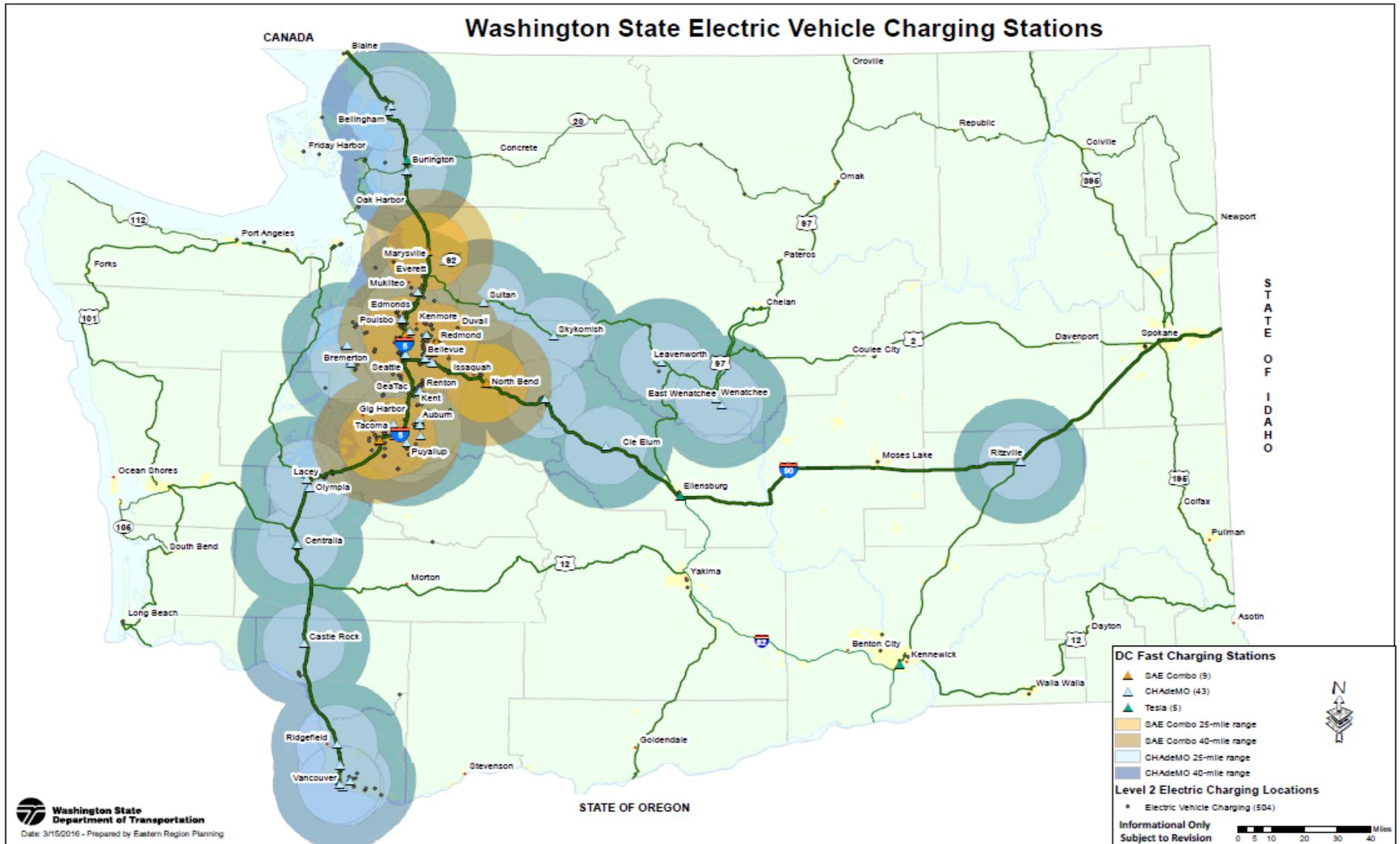
*Interregional EV Travel on Interstate 90*



*EV Travel to and within Tri-Cities and Walla Walla*

# Pilot Program to Expand Public EV Charging

Starting with \$1m from new \$50 annual EV registration fee



# EV Infrastructure Pilot Program

## Draft Rules

### **468-602-010 Authority and purpose.**

[RCW 47.04.350](#) directs WSDOT to develop a pilot program to support the deployment of electric vehicle (EV) quick charging infrastructure along highway corridors that is supported by private financing.

### **468-602-020 Definitions.**

- Lead applicants: Local government such as cities, counties, tribes, and transit

### **468-602-030 Priority corridors.**

- I-5, I-90, U.S. 2, and U.S. 101, Bidders may propose other corridors.

### **468-602-040 Project requirements.**

- Bidders must have private sector partners contributing to the Project such as motor vehicle manufacturers, retail stores, or tourism stakeholders
- Projects must be valuable to EV drivers, address a gap in the state's network, and be profitable and sustainable for the owner-operator and private sector partner

### **468-602-050 Selection process.**

- Competitive

# EV Infrastructure Pilot Program

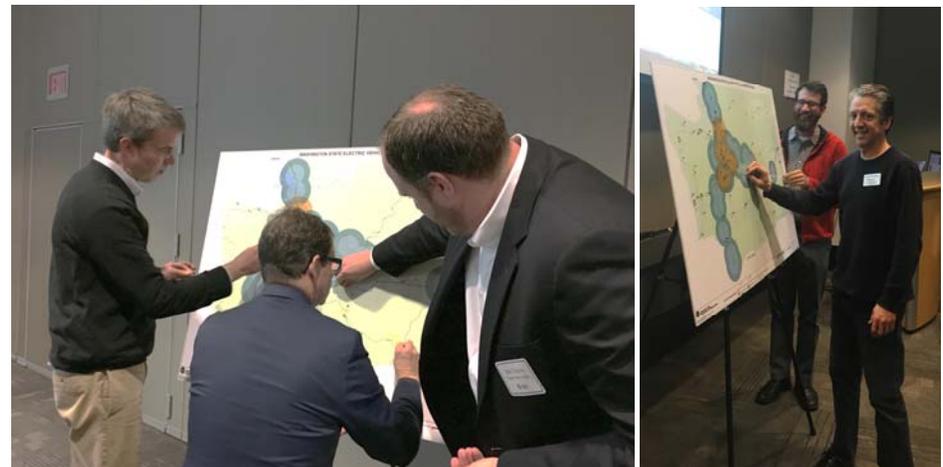
## Gathering Stakeholder Feedback

- Car dealers and manufacturers
- Citizens
- Elected officials
- EV drivers & Associations
- EV Charging equipment providers
- Cities, counties, transit, tribes
- Utilities
- Universities



## Public Outreach

- March 16<sup>th</sup> Workshop and Public Meeting at SeaTac Airport
- April 20<sup>th</sup> Public Meeting at SGL/BMW plant in Moses Lake



# EV Infrastructure Pilot Program

## Next Steps:

- Take public comment on rules (May)
- Hold public hearing on rules (June)
- Develop criteria, grant application, and solicitation process (spring)
- Request solicitation of proposals (summer)
- Award grants and start projects (fall)
- Evaluate pilot program and report on progress (winter)
- Plan for 2017-19 program rollout (spring)



# For more information, contact:



## **Tonia Buell**

Project Development Manager

Innovative Partnerships

Washington State Department of Transportation

(360) 705-7439

[Tonia.buell@wsdot.wa.gov](mailto:Tonia.buell@wsdot.wa.gov)

[www.westcoastelectrichighway.com](http://www.westcoastelectrichighway.com)

# New Legislation: Alt Fuel & Electric Vehicles

## **2ESHB 2778: Retail sales and use tax exemption criteria for clean alternative fuel vehicles (powered by electricity, natural gas, propane or hydrogen)**

- Amends [RCW 82.08.809](#) to increase cap from \$35,000 to \$42,500 starting July 1.
- Reduces applicable exemption to a max of \$32,000 of vehicle's selling price.
- Expands incentive to leased vehicles.
- Now includes vehicles able to travel at least 30 miles on a battery charge.
- Expires after 7,500 vehicles qualify.

## **SHB 2884: Modifying the business and occupation tax credits and public utility tax credits for alternative fuel commercial vehicles**

- Expands tax credit incentive to include leased vehicles.

## **SHB 2357: Concerning the authority of the pollution liability insurance agency**

- Establishes a revolving loan and grant program for retrofitting underground storage tank facilities. Includes monetary incentive for installing EV charging stations.

## **HB2317: Expanding the use of neighborhood and medium-speed EVs**

- Allows medium-speed electric vehicles to operate on state highway segments with a posted speed limit under 35 miles per hour.