



CA Governor's ZEV Summit 2014

"ZEVs in Other States" Plenary

March 7, 2014

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California Energy Commission

DOCKETED

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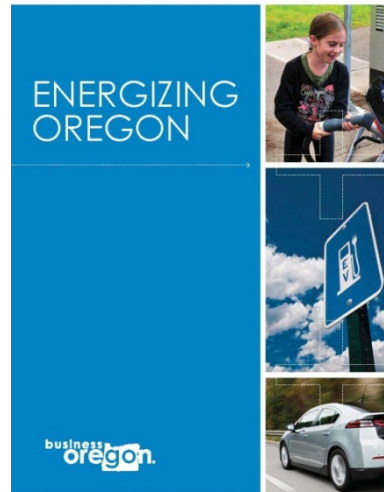


WEST COAST
**ELECTRIC
HIGHWAY**

Drive cleaner. Drive smarter. Drive electric
and save!

Oregon: What's driven EV adoption?

- *West Coast Electric Highway*
- *Oregon Electric Byways*
- Statewide EV Action Plan ("Energizing Oregon")
- Energize Oregon Coalition
- Oregon Auto Dealers Association Collaboration
- Clean Cities Collaboration
- Clean Tech Industry & Environmental Leadership
- Leadership structure around EVs in State Government
- City & County Leadership
- High Visibility





WEST COAST ELECTRIC HIGHWAY

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\$915,000

U.S. Department of Energy
ARRA funds ODOE granted to ODOT.

TIGER \$3.34 million

U.S. Department of Transportation TIGER II
funds awarded to ODOT.



43

ODOT AeroVironment fast-chargers installed throughout Western Oregon along the Columbia River Gorge, the entire Oregon Coastline, the Cascades, Mt. Hood, Willamette Valley, and beyond.



Electric Highway Map



Washington AeroVironment EV Station* Locations

Bellevue
Bellevue Station
222 1st Ave
Bellevue, WA 98004

Blaine
Cable Southbound
Salem Area
Blaine, WA 98225

Burlington
The Old Shoppe
at Burlington
688 1st Ave
Burlington, WA 98223

Castle Rock
Cascades Southbound
2nd Ave Southbound
Castle Rock, WA 98011

Centralia
Altoona
217 1st Ave
Centralia, WA 98513

Cle Elum
Summit Road
Cle Elum, WA 98922

Leavenworth
City Hall
700 US Highway 2
Leavenworth, WA 98825

Redmond
Redmond Station
1315 Pioneer Street
Redmond, WA 99082

Skamania
145 1st Street North
Skamania, WA 98611

Snoqualmie
The Old Shoppe
at Snoqualmie
521 1st Ave
Snoqualmie, WA 98066

Sultan
Sultan Station
1st Avenue Center
Sultan, WA 98588

Tumwater
East Station & 1st Ave
111 1st Ave SE
Tumwater, WA 98511

Vancouver**
Glen Creek Supercharger
Safety Best Area
Vancouver, WA 98642

Wenatchee
Wenatchee Convention Center
400 North Columbia Street
Wenatchee, WA 98801

Oregon AeroVironment EV Station* Locations

Astoria
Astoria Station
100 1st Ave
Astoria, OR 97103

Beaverton
Beaverton Station
100 1st Ave
Beaverton, OR 97005

Bend
Bend Station
100 1st Ave
Bend, OR 97701

Brookings
Brookings Station
100 1st Ave
Brookings, OR 97513

Cannon Beach
Cannon Beach Station
100 1st Ave
Cannon Beach, OR 97102

Corvallis
Corvallis Station
100 1st Ave
Corvallis, OR 97331

Ellensburg
Ellensburg Station
100 1st Ave
Ellensburg, OR 98926

Emeryville
Emeryville Station
100 1st Ave
Emeryville, CA 94608

Enterprise
Enterprise Station
100 1st Ave
Enterprise, OR 97122

Forest Grove
Forest Grove Station
100 1st Ave
Forest Grove, OR 97116

Gresham
Gresham Station
100 1st Ave
Gresham, OR 97030

Grout
Grout Station
100 1st Ave
Grout, OR 97114

Heppner
Heppner Station
100 1st Ave
Heppner, OR 97112

Home
Home Station
100 1st Ave
Home, OR 97110

Independence
Independence Station
100 1st Ave
Independence, OR 97131

La Grange
La Grange Station
100 1st Ave
La Grange, OR 97111

Medford
Medford Station
100 1st Ave
Medford, OR 97504

Meridian
Meridian Station
100 1st Ave
Meridian, OR 97136

Mountain View
Mountain View Station
100 1st Ave
Mountain View, CA 94039

North Bend
North Bend Station
100 1st Ave
North Bend, OR 97149

Redmond
Redmond Station
100 1st Ave
Redmond, OR 97454

Seaside
Seaside Station
100 1st Ave
Seaside, OR 97138

Shoreline
Shoreline Station
100 1st Ave
Shoreline, WA 98148

Springfield
Springfield Station
100 1st Ave
Springfield, OR 97132

Stirling
Stirling Station
100 1st Ave
Stirling, OR 97144

Tillamook
Tillamook Station
100 1st Ave
Tillamook, OR 97141

Union
Union Station
100 1st Ave
Union, OR 97146

Walla Walla
Walla Walla Station
100 1st Ave
Walla Walla, WA 99156

Wendouville
Wendouville Station
100 1st Ave
Wendouville, WA 98081

Yreka
Yreka Station
100 1st Ave
Yreka, CA 96097

* EV Station: West Coast Electric Highway EV Station
** AeroVironment Level 2 only

Tesla Model S Supercharger Network for ORWA

Grants Pass, OR
Grants Pass Station
100 1st Ave
Grants Pass, OR 97126

Springfield, OR
Springfield Station
100 1st Ave
Springfield, OR 97132

Medford, OR
Medford Station
100 1st Ave
Medford, OR 97504

Wendouville, WA
Wendouville Station
100 1st Ave
Wendouville, WA 98081

Centralia, WA
Centralia Station
100 1st Ave
Centralia, WA 98513

Ellensburg, WA
Ellensburg Station
100 1st Ave
Ellensburg, WA 98926

Burlington, WA
Burlington Station
100 1st Ave
Burlington, WA 98223



Tweet @ West Coast Electric Highway Stations with #WCEH or #WestCoastElectricHighway
Let us know how we're doing, rate the stations on your smartphone charging station locator apps & mention #WCEH!
If you are an EV Ambassador, include #EVAmbassador

Oregon Lessons Learned: Infrastructure Deployment

- **Determine single point of contact**
- **Agree upon cohesive EV Network “Brand”**
- **Establish parameters for site placement**
- **Involve host sites, community, and beyond to gain support & “champions” throughout state**
- **Install both CHAdeMO & SAE**
- **Collaborate with Dealers on awareness of network**

Oregon Lessons Learned: Infrastructure Deployment

- Co-locate & leverage funding (+ visibility)
- Conduct an assessment of existing traffic patterns
- Install more than one charger at high traffic sites
- At a minimum, prepare the site with power infrastructure (A.K.A. "Make Ready")
- Install accompanying Level 2 (+ Level 1 if could be used for workplace charging)

Oregon Electric Byways and Other EV Tourism Initiatives



Oregon Department of Transportation





WEST COAST ELECTRIC HIGHWAY

Drive cleaner. Drive smarter. Drive electric
and save!

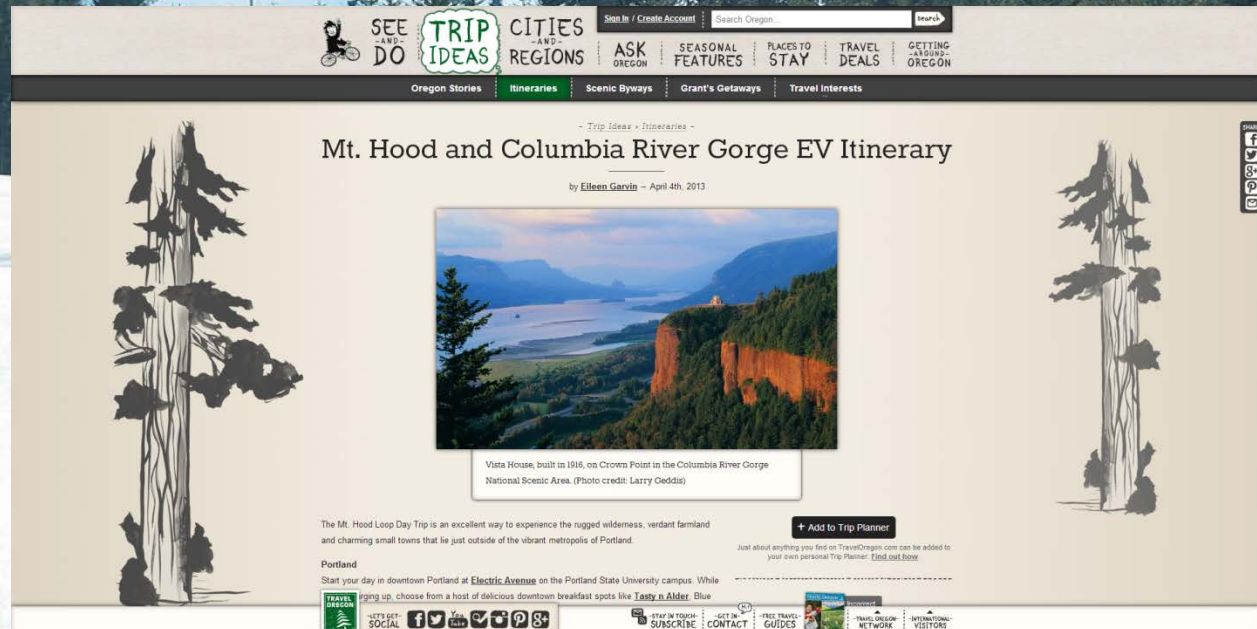
Oregon Electric Byways: Itineraries based on the West Coast Electric Highway that take EV drivers on curated trips to experience a more thorough view of the state.

Oregon Electric Byways.

Explore Electric Oregon. Take in its beauty and bounty, gasoline-free.



Oregon Electric Byways: Destination Charging Changes the “EV Story”



The screenshot displays the Oregon Electric Byways website. The header features navigation links: SEE AND DO, TRIP IDEAS, CITIES AND REGIONS, ASK OREGON, SEASONAL FEATURES, PLACES TO STAY, TRAVEL DEALS, and GETTING AROUND OREGON. Below the header, the main content area is titled "Mt. Hood and Columbia River Gorge EV Itinerary" by Eileen Garvin, dated April 4th, 2013. A central image shows a scenic view of the Columbia River Gorge with a red cliff face. Below the image, a caption reads: "Vista House, built in 1916, on Crown Point in the Columbia River Gorge National Scenic Area. (Photo credit: Larry Geddis)". The text describes the Mt. Hood Loop Day Trip as an excellent way to experience the rugged wilderness and charming small towns just outside of Portland. It mentions starting the day in downtown Portland at Electric Avenue on the Portland State University campus, where visitors can enjoy breakfast spots like Tasty n' Alder. The footer includes social media links, a subscribe button, and a contact link.

SEE AND DO TRIP IDEAS CITIES AND REGIONS ASK OREGON SEASONAL FEATURES PLACES TO STAY TRAVEL DEALS GETTING AROUND OREGON


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~ Trip Ideas ~ Itineraries ~

Mt. Hood and Columbia River Gorge EV Itinerary

by Eileen Garvin - April 4th, 2013



Vista House, built in 1916, on Crown Point in the Columbia River Gorge National Scenic Area. (Photo credit: Larry Geddis)

The Mt. Hood Loop Day Trip is an excellent way to experience the rugged wilderness, verdant farmland and charming small towns that lie just outside of the vibrant metropolis of Portland.

[+ Add to Trip Planner](#)

Just about anything you find on TravelOregon.com can be added to your own personal Trip Planner. [Find out how.](#)

Portland
Start your day in downtown Portland at **Electric Avenue** on the Portland State University campus. While going up, choose from a host of delicious downtown breakfast spots like **Tasty n' Alder**. Blue

TRAVEL OREGON

STAY IN TOWN SUBSCRIBE CITY IN TOUCH CONTACT FREE TRAVEL GUIDES

TRAVEL OREGON NETWORK INTERNATIONAL VISITORS





What's Next for Oregon?

- 
- A man in a light blue button-down shirt and dark pants stands next to a white Nissan Leaf electric car, giving a thumbs up with both hands. The car is parked on a dirt shoulder next to a road. In the background, a large green sign with a white outline of Oregon reads "OREGON THANKS YOU FOR COME BACK SOON". The sign is mounted on two metal poles. The background shows a clear blue sky and distant mountains.
1. **ZEV MOU Action Plan Implementation**
 2. **Expand EV Tourism Initiative**
 3. **More fast chargers**
 4. **Workplace Charging & Employer Programs**
 5. **ZEVs in Fleets**
 6. **Dealer & Other Outreach Programs**
 7. **Coordinate with CA on West Coast Electric Highway's expansion**

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