



# **Electric Vehicle Charging Network**

**Presentation to the  
Governor's Alternative Fuel Infrastructure  
Working Group**

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## Electric Vehicles (EVs) in Oregon

- There are currently only about **400** all-electric vehicles (EVs) registered in Oregon
- Mostly low speed, “Neighborhood Electrics”
- A new generation of highway-speed, safety-certified EVs will enter the marketplace in the next 18-24 months
- Within a decade, plug-in cars could account for as much as 20% of new vehicles sold in Oregon



# EVs Are Coming in Different Shapes and Sizes



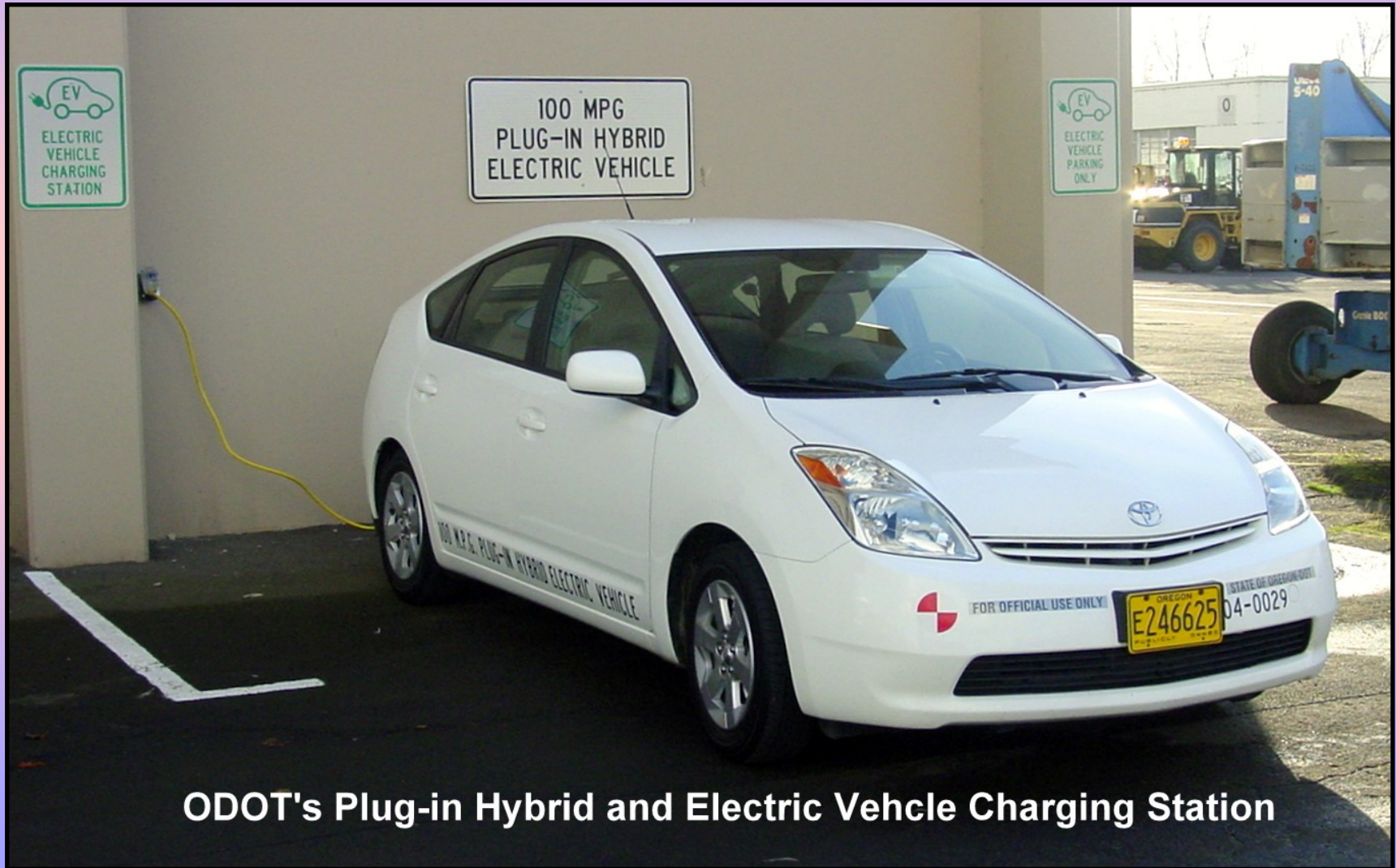


## Why Oregon is Developing Charging Infrastructure Infrastructure

- The biggest limitation for drivers thinking about transitioning to an EV is the *RANGE* of the vehicles
- ODOT is in a unique position to provide leadership in deploying EV Charging Stations around Oregon
- A consistent network of EV Charging Stations will provide reliability and certainty to EV drivers
- It will also encourage people to invest in new EV technologies



# Several State Agencies Now Have Plug-ins



**ODOT's Plug-in Hybrid and Electric Vehicle Charging Station**



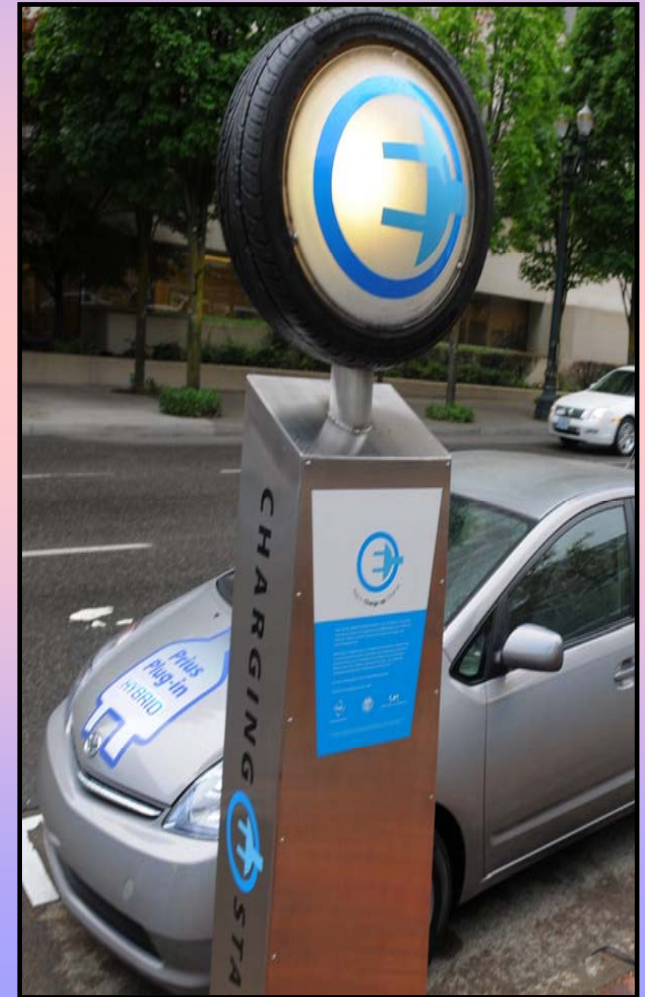
## EV Charging Network Project Goals

- Bring together local partners and private industry
- Allow access to centralized purchase agreements for EV charging equipment
- Establish Oregon standards for EV charging stations including appearance, performance and safety
- Encourage development of renewable energy and “smart metering”



## Why There is a Need for a Common “Brand”

- Oregon Innovative Partnership Program (OIPP) can help increase public awareness and acceptance through uniformity





## OIPP Has Unique Procurement Authority

- Exempted from most public procurement requirements allowing OIPP to design an RFP to fit the project
- EV Charging public/private partnerships will be governed by negotiated price agreements
- Our statute defines “transportation project” as “any undertaking that facilitates any mode of transportation”
- → *EV charging clearly fits!*



# Need for Consistent EV Signage

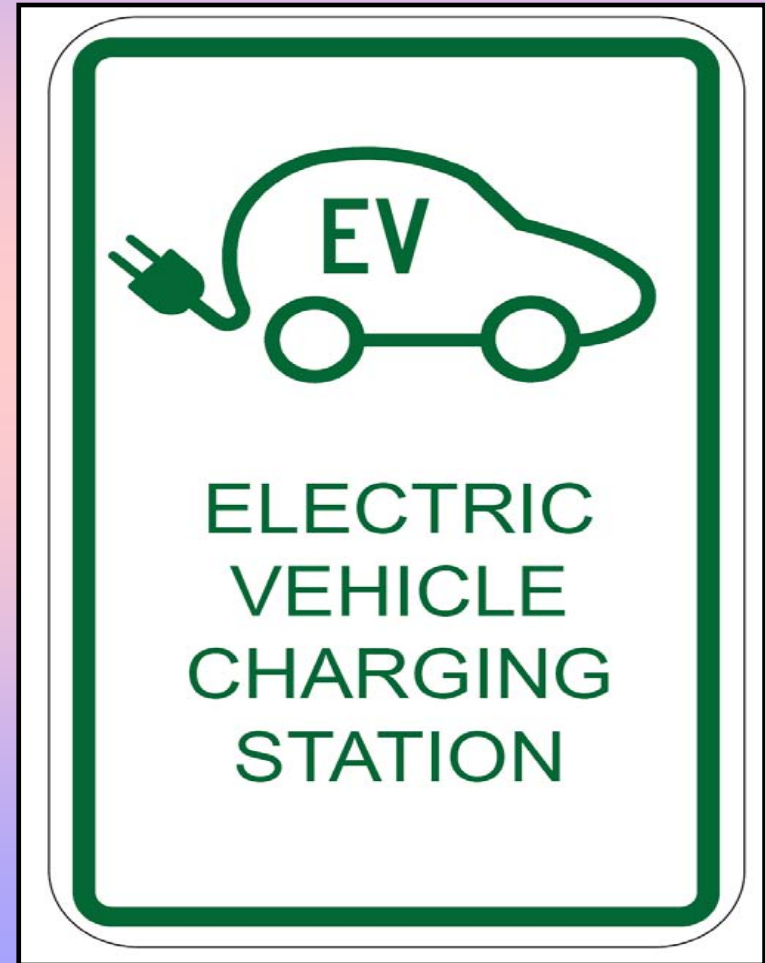
- Here is a sample of EV Charging Signs used in other places





## New ODOT Adopted Sign

- ODOT has adopted a standard sign which has been deployed in several communities
- Another way to get the public to recognize and accept the new technology





## Other Features of the Project

- EV Charging systems will accommodate vehicles from *all manufacturers*
- They must comply with all applicable safety regulations and industry standards
- There is a strong need for more public educational to gain familiarity and confidence in EVs



## Partnership With Nissan, Others

- On 11/19/08, the Governor and Chairman of Nissan announced an MOU at the LA Auto Show
- Early introduction of their new EV in 2010
- Other manufacturers have visited the state as well!





*Website for  
Oregon Innovative  
Partnerships Program*

More information available at:

**[www.oregon.gov/ODOT/HWY/OIPP/innovative.shtml](http://www.oregon.gov/ODOT/HWY/OIPP/innovative.shtml)**

