## Transportation Electrification Plan Stakeholder Meeting #1















PacifiCorp Transportation Electrification Stakeholder Meeting #1 July 7, 2022, 9:30–11:30 a.m. PDT

## **Ground Rules**

We strive to create a respectful, inclusive environment that embraces diverse perspectives

- 1. Be present
- 2. Keep an open mind
- 3. Share your insights
- 4. Work with us toward a shared solution

Please hold any program-specific questions until the end

## **Recommendations & Requests for Meeting Participants**

- Use Gallery View (icon at top right) when in group discussion
- For technical support, click the Chat icon (in tool bar at bottom), toggle to "Tag Galvin-Darnieder / E Source" as recipient, and send your message
- Please use the chat at any time to engage in the conversation or ask questions
- To raise your virtual hand to speak, click on "Reactions" in the tool bar and select "Raise Hand."
- Please keep your camera on during the meeting (icon at bottom left), though remain muted unless speaking
- E Source facilitators will change PacifiCorp, E Source, and Transportation Electrification stakeholder member participant names to first name, last initial, affiliation

## Stakeholder Engagement Overview



To develop a robust, equitable, innovative, iterative, and customer-centric transportation electrification plan (TEP)

## **Objectives**

- Engage underserved communities throughout our service area to support the development of an equitable TEP
- ➤ Identify localized market barriers and strategies related to advancing TE within our service area
- ➤ Identify and prioritize TE program initiatives that are supported by our stakeholders and will be integrated into the TEP

## Today's Objectives

- Revisit current EV adoption and infrastructure within PacifiCorp's service area
- Inform current program offerings and stakeholder engagement strategy
- Discuss and obtain feedback on methodology and approach for mapping underserved communities



## Agenda



Welcome | 9:30 a.m. PDT

Objectives | 9:30-9:40 a.m.

Current State of Electric Vehicle Adoption & Charging Infrastructure | 9:40–10:00 a.m.

PacifiCorp Current Program Offerings | 10:00-10:25 a.m.

Identifying Underserved Communities | 10:25–11:10 a.m.

Next Steps and Questions | 11:10–11:30 a.m.

## Presenters



Kate Hawley
EV Senior Product Manager,
Customer Solutions,
PacifiCorp



Steven Alaman,
Transportation Electrification
Customer Programs Manager,
PacifiCorp



Eli Morris

Managing Director,

Applied Energy Group



Rob Strange Product Manager Applied Energy Group

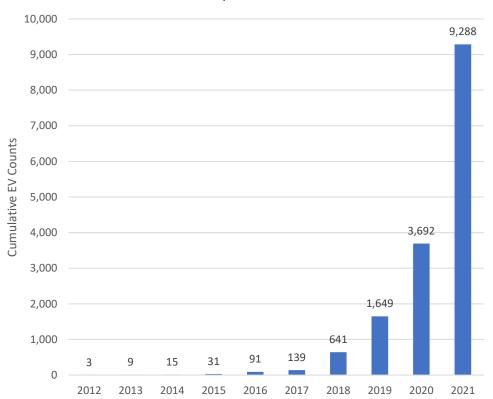
# Current State of Electric Vehicle Adoption & Charging Infrastructure



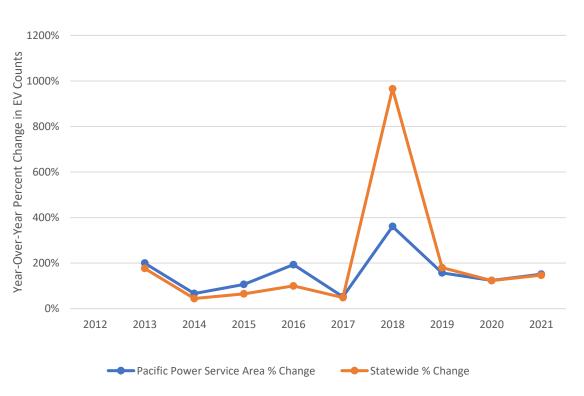


## **Electric Vehicle Adoption**

Electric Vehicle Adoption Curve PacifiCorp Service Area

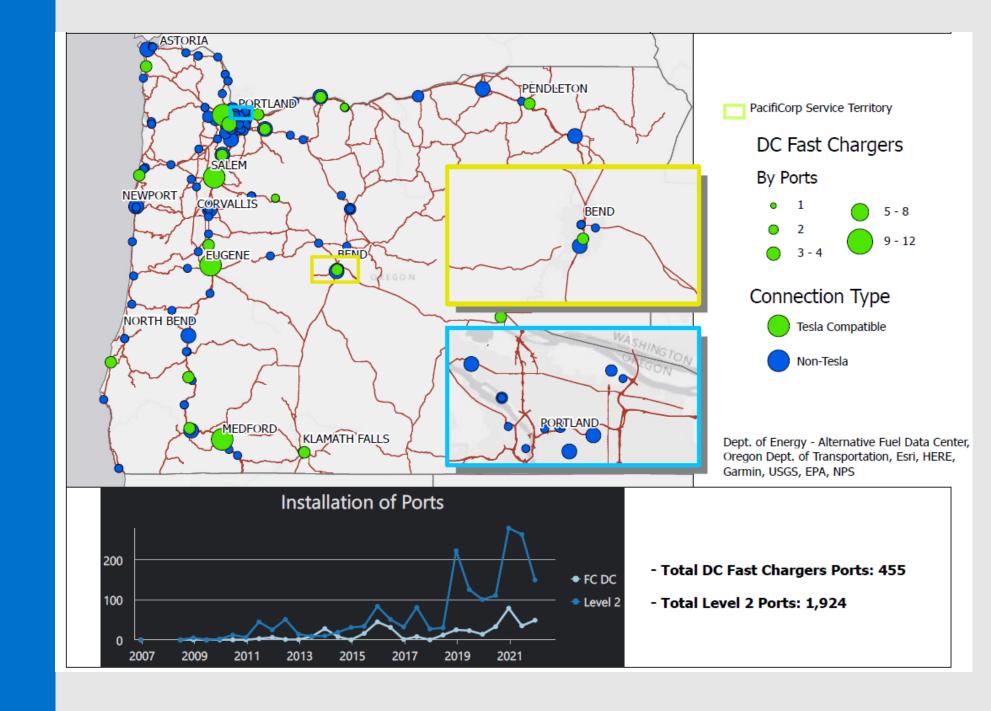


PacifiCorp Service Area % Change Compared to % Change Statewide

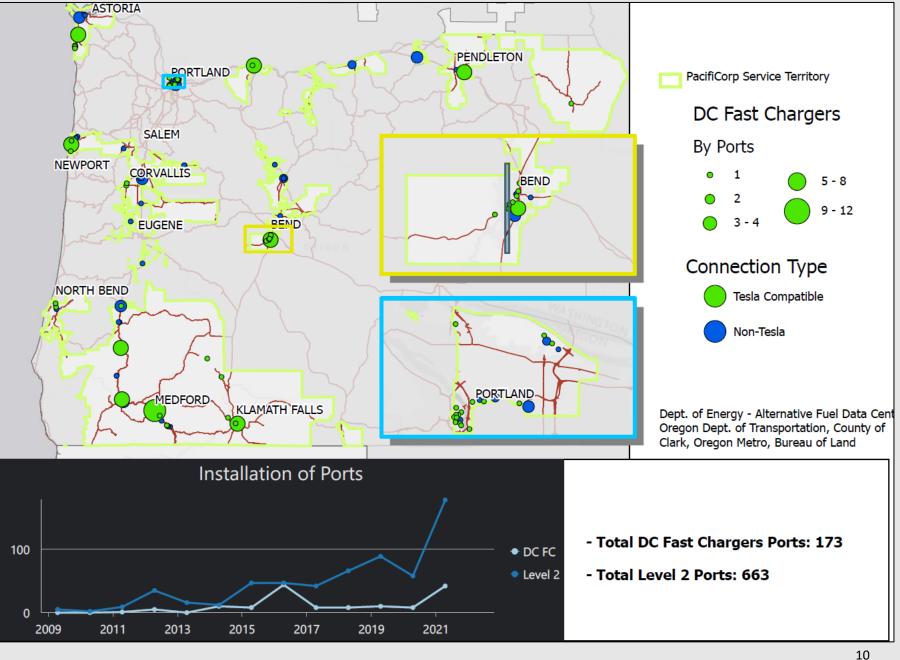


Source: Oregon Department of Energy. (2022, June 20). Oregon Electric Vehicle Dashboard. Oregon.gov. <a href="https://www.oregon.gov/energy/Data-and-Reports/Pages/Oregon-Electric-Vehicle-Dashboard.aspx">https://www.oregon.gov/energy/Data-and-Reports/Pages/Oregon-Electric-Vehicle-Dashboard.aspx</a>.

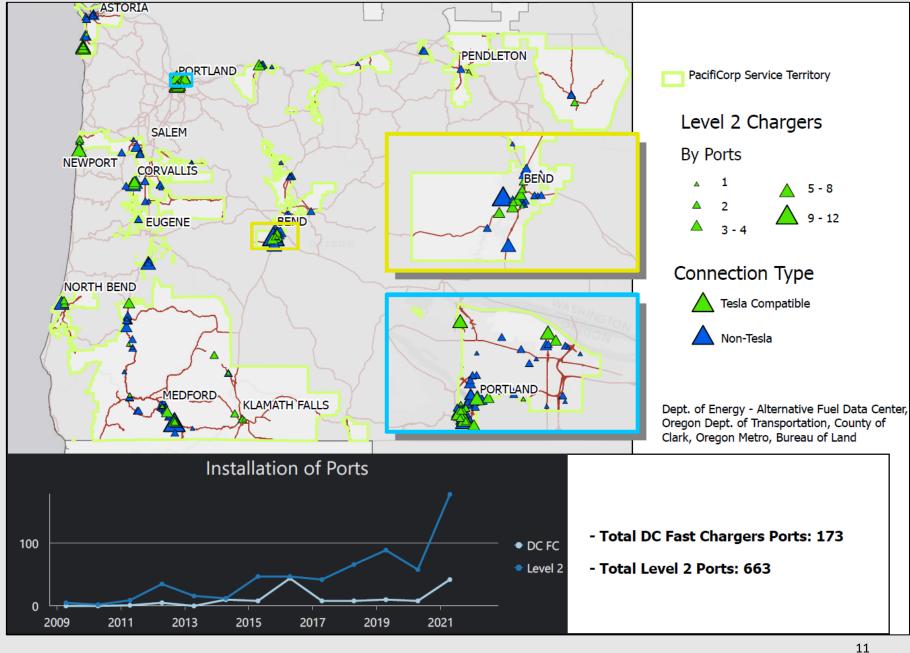
# DC Fast Charging Infrastructure: Oregon Statewide



## DC Fast Charging Infrastructure: **PacifiCorp** Service Area



## Level 2 Charging Infrastructure: PacifiCorp Service Area





## Oregon Transportation Electrification Portfolio

**Pilot Programs** 

**Clean Fuel Credit Programs** (Program Renews Each Year)

Other Key Initiatives

Phase I: Ended 2021

**Public Charging** Stations

Infrastructure Grant

Outreach and Education

Outreach and Activation

Communication and

**Enhanced Outreach** 

**Electric Mobility** Grants

Supporting Tariff Design

Demand charge

Expansion of line

extension

allowance

Tier flattening

**Planning** Studies

**PacifiCorp Stations** 

Fast-charging stations in Bend, Klamath Falls, Madras, Mill City, and Otis

**Competitive EVSE** Grants

All funding awarded

- Wattplan online tool
- · Ride and drives
- Beacon deployment
- Technical assistance

## **Competitive EV Partnership Grants**

To support projects that advance electric transportation in underserved areas

## **Matching Funds**

To organizations and communities applying for external grants

### **Grant Writing Support**

To organizations and communities in need of grant writing assistance

transitional rate Regional TOU pilot rates Coordination

> Customer Engagement

WestSmart 2.0 Grant

## Phase II: Active

**EVSE Residential** Rebate

Residential rebate for EVSE Level 2 charging, includes low-income adder

**EVSE Nonresidential** Rebate

Nonresidential rebate for EVSE Level 2 charging, includes multifamily adder

## Outreach and Education

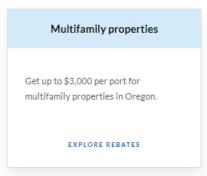
- Decision-making support
- High-quality EV experiences
- Planning and studies

July 2022

## Charge at Home/Charge at Work

## Level 2 charger rebates for Oregon homes and businesses

## Homes Get up to \$1,000 for home charging equipment in Oregon. SEE REBATES







- · Own or lease an EV or plug-in hybrid
- Will be automatically enrolled in Time of Use program
- Submit a rebate application within one year of the date of purchase
- Install a qualified charger

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Income qualified customers can receive up to \$1,000 (see below).



### Benefit the community and the environment

When housing providers invest in apportunities that benefit the community, the investments can also have big benefits for their bottom line.



### Charge at home rebates for multifamily housing

Get up to \$3,000 per port, not to exceed 75% of total costs

ELIGIBILITY REQUIREMENTS APPLY ONLINE

- Be a Pacific Fower nonresidential customer (owner or manager) of a multifamily residential building that includes three or more units.
- . Buy and install a qualified EV charger
- Installations must be hardwired
- . Submit a rebate application within one year of the date of purchase
- Max incentive is \$36,000 (total 12 ports)

1 Interested in becoming a qualified product vendor? Review the Information & Qualifications and EVSE Charging Equipment details.

## **Outreach & Education**

- Ride-and-drive events
- Go Forth Mobile
   Showcase outreach
- Sponsored EV promotional events

**Community Events** 



- Commercial EVSE feasibility studies
- Fleet EVSE feasibility studies
- Fleet market assessment

Technical Assistance



- PacifiCorp's EV website
- Social media EV promotion
- Bill onserts & inserts
- Press releases
- Radio advertisements
- Direct e-mail
- Dealership collateral

**Customer Communication** 



- Cost comparison calculator
- Tax credit & incentives
- Chargeway Beacon kiosks at dealerships
- Printed and digital educational materials

Self-Service Resources



## Clean Fuels Program Offerings

## **Grant Funding**

- E-Mobility Grant Fund
- Grant Matching Fund
- Grant Writing Assistance

## Outreach & Education

- Statewide Marketing Campaign
- Dealership Engagement
- Technical Assistance
- Quarterly Roundtables

## Line Extension Allowances

- Nonresidential applicants, for which 80% or greater of the estimated annual load of applicants' facilities will be dedicated to serving transportation charging infrastructure
- Two times the estimated annual revenue the applicant is expected to pay the Company in a year of normal operations under cost-based service
- The applicant must advance the costs exceeding the extension allowance
- Line extension allowance costs cover electrical costs (i.e., conductor, transformers, meters and other necessary equipment to provide electricity to the customer's service entrance panel

## **Key Supporting Initiatives**

## Supporting Tariff Changes

- Encouraging off-peak usage
- Facilitating charging station buildout in underserved areas through alternative rate structures
- Modernizing residential rates to improve charging economics

Planning Studies Regional Collaboration

Customer Engagement WestSmart 2.0



## Understanding PacifiCorp's Service Area Characteristics

## Objective:

 Understand how communities in PacifiCorp service area are serviced by current EVSE infrastructure

## Process:

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- Map EVSE locations by Tesla and non-Tesla
- Create composite index to create a single factor to represent HB 2165 "Underserved Communities"
- Overlay current infrastructure, driving considerations and underserved communities to develop an index of need



## House Bill 2165 Underserved Community Definitions

Residents of Communities of **Rental Housing** Multifamily Color Housing Communities **Experiencing Lower Tribal Communities Rural Communities** Income **Communities** Frontier Coastal **Adversely Harmed** Communities by Environmental Communities or Health Hazards

Source: UM 2165, Public Utility Commission of Oregon Staff Report Special Public Meeting December 14, 2021, December 7, 2021; https://edocs.puc.state.or.us/efdocs/HAU/um2165hau181610.pdf

## **Underserved Community Identification**

## Pollution Burden

Environmental exposures weighted more heavily

## **Environmental Exposures:**

- Diesel
- ◆ Ozone
- ◆ Particulate matter 2.5
- Traffic density

## **Environmental Effects:**

- Lead risk and exposure
- ◆ Proximity to hazardous waste facilities
- Proximity to superfund sites
- Wastewater discharge
- ◆ Risk management plan (RMP) facility proximity

## **Population Characteristics**

**Equal weighting** 

## Demographic Factors:

- ◆ Residents of rental housing
- Residents of multifamily housing
- Communities of color
- ◆ Communities experiencing lower incomes

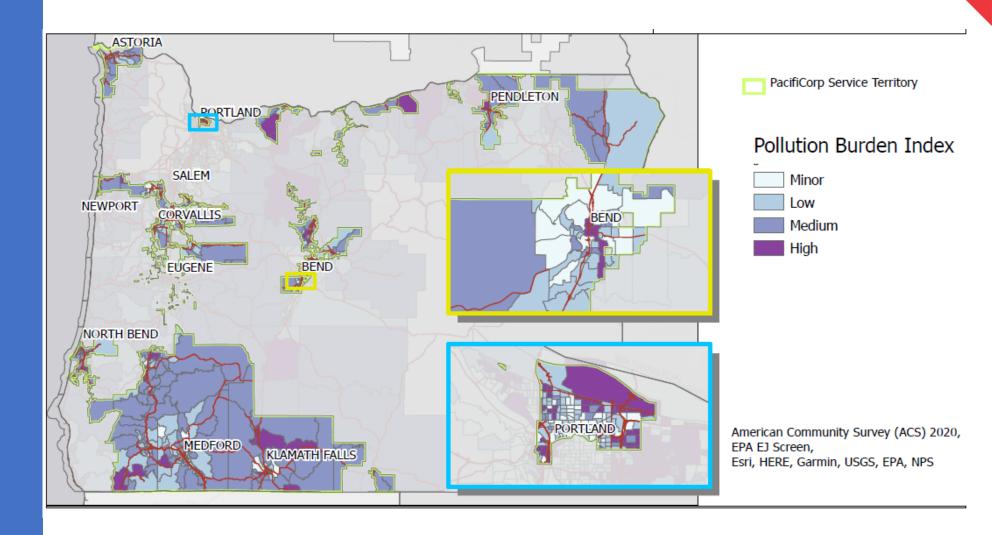
## Geographic Factors:

- Tribal communities
- Rural communities
- Frontier communities
- Coastal communities

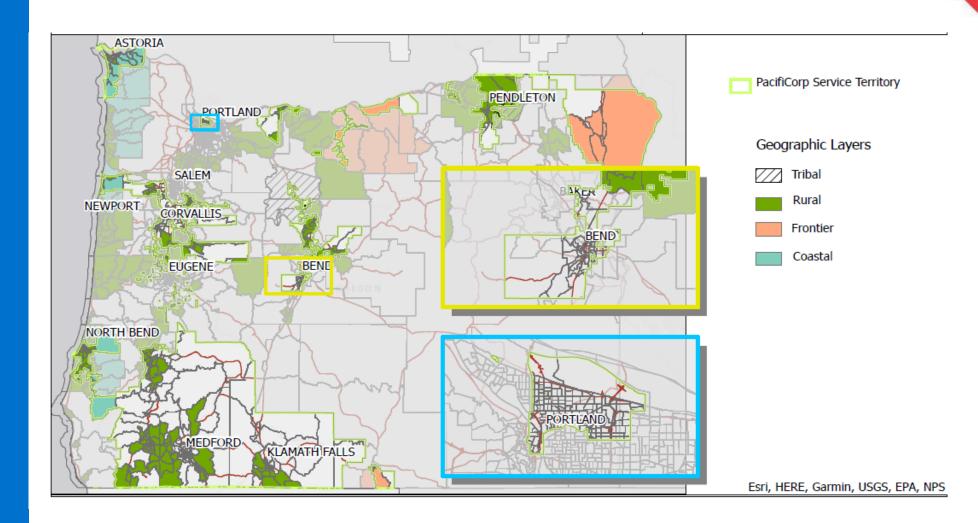
## Composite Underserved Community Score

Combination of pollution burden and population characteristics (equal weighting)

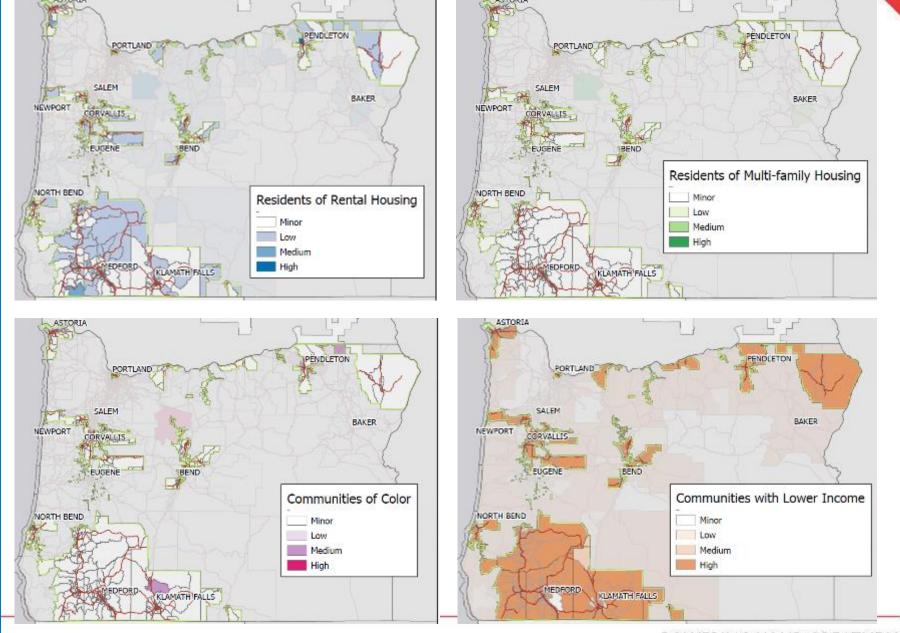
## Pollution Burden: Composite Score



## Underserved Communities: Geographic Layers



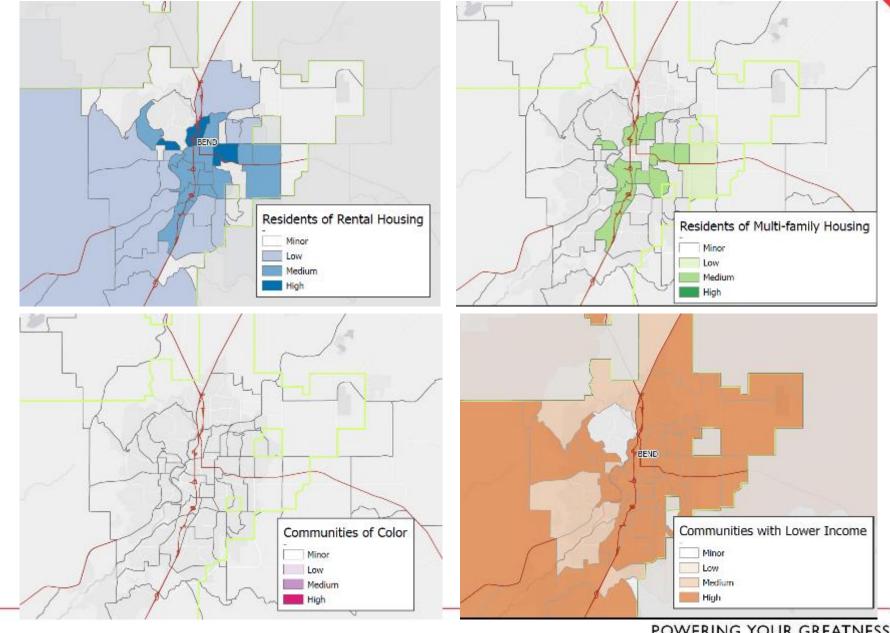
## Demographic Layers: PacifiCorp Service Area



## Demographic Layers: Portland Area

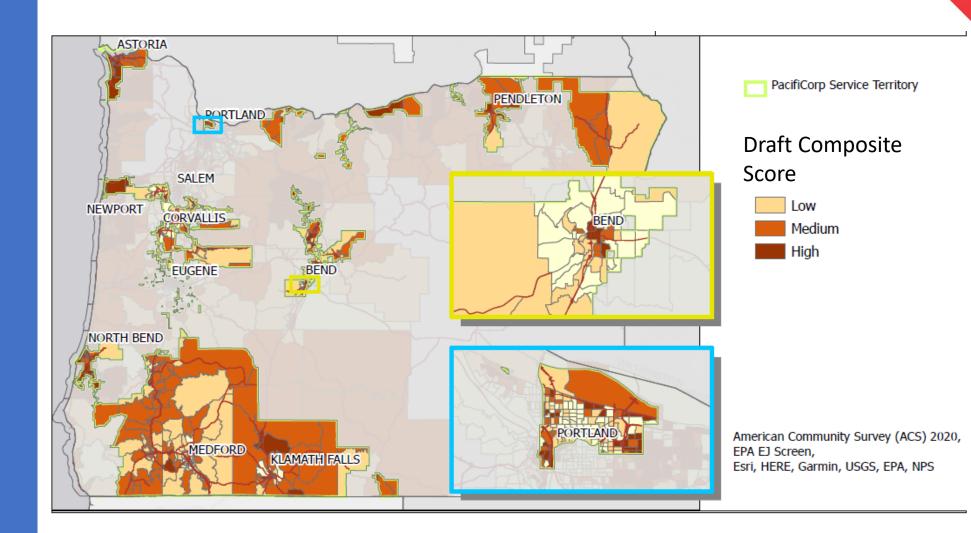


## Demographic Layers: **Bend Area**



**POWERING YOUR GREATNESS** 

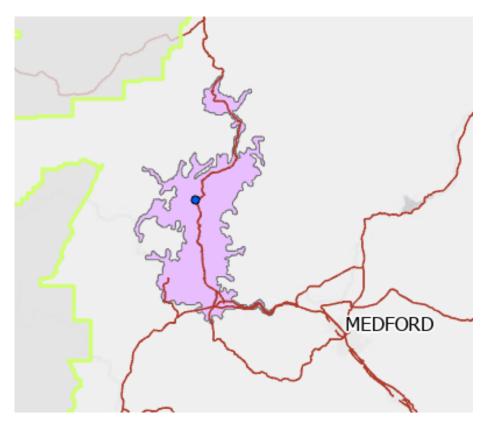
Underserved
Communities:
High-Level
Initial
Composite Index
For Discussion



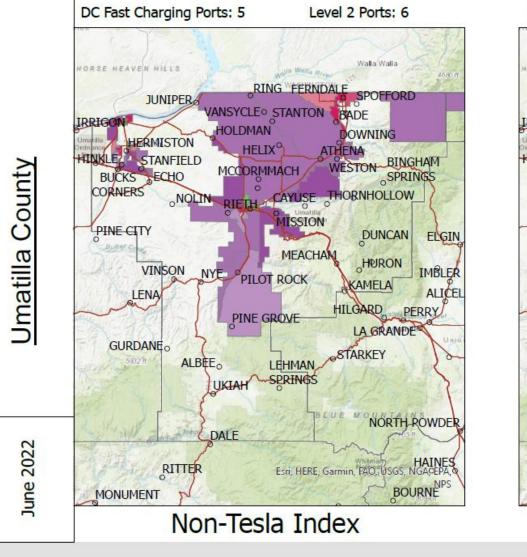
## **Next Steps**

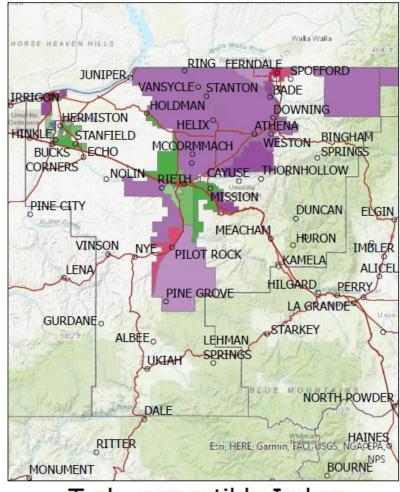
- Continue to refine composite underserved community index incorporating parts a, b, and c from HB 2165 Section 2(c)
  - Use pollution and population factors presented above
  - Incorporate access to public charging stations
- How to define areas with a low density of public charging stations?
  - Access to Level 2, DC fast chargers, or both?
  - Drive time to charging stations
    - What is a reasonable radius?
    - Is having access to a single charging station sufficient?

Example isochrone map – 45-minute drive time from DC fast charger



Draft
Relationship
Map: Umatilla
County





Level 2 Ports: 0

DC Fast Charging Ports: 8

## Tesla-compatible Index

Underserved Communities by EVSE



Underserved Communities w/ High EVSE



Not Underserved Communities w/ High EVSE Coverage

Underserved Communities w/ Low EVSE Coverage



## Stakeholder Engagement Overview

- Series of virtual workshops
- National audience
- Led by PacifiCorp

Large Forums



- In-person
   workshops in
   PacifiCorp service
   area
- Led by Forth

Localized Engagement



## Localized Engagement

- PacifiCorp has hired the nonprofit Forth to facilitate six in-person local engagement sessions
- Engagement sessions will take place in rural or underserved communities throughout PacifiCorp's service area
- The goal of these in-person sessions will be to take a deeper dive to identify any TE barriers facing rural and underserved communities that may not be as easily identified in the larger stakeholder sessions

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## Draft Engagement Calendar



## PacifiCorp Requests Your Feedback

- PacifiCorp is actively soliciting your feedback on what has been presented and discussed today
- PacifiCorp is particularly interested in feedback on the mapping exercise to identify underserved communities
  - Does equal weighting of factors make sense?
  - If not, how should weighting of factors be done?
  - More broadly, how can we improve our layered map to better identify and understand areas that are lacking infrastructure coverage?



If you have feedback, recommendations for who we should reach out to, or additional resources, email us at kate.hawley@pacificorp.com

## **Next Forum Discussions**

## August 11

9:30-11:30 a.m. PDT

- Roadmap Discussion
- Goals & Objectives
- Portfolio Guardrails
- Future Revenue Projections

## September 23

10:30 a.m.-12:30 p.m. PDT

- Program Portfolio
- Budget Forecasts
- Timelines

