

Advancing Transportation Electrification in Underserved Communities Through Utility Grant Programs









OUR MISSION

To optimize the use and impact of energy to enhance the quality of life in the Southeast.

OUR VISION

All people in the Southeast live and work in healthy and resilient buildings, utilize clean and affordable transportation, and thrive in a robust and equitable economy.

OUR VALUES



Take Initiative

We take responsibility for realizing a better quality of life in the Southeast.

Value Others

We seek, respect, and promote diverse perspectives.

S Earn

Earn Trust

We pursue our work with benevolence, competence, and reliability.



Pursue Equitable Solutions

We recognize, acknowledge, and account for a history of prejudice and inequality in Southeastern communities.

Introductions





Kelly Helfrich Vice President, EV Practice



PACIFIC POWER

POWERING YOUR GREATNESS

Berit Kling Grant Program Manager



Stephanie Starr Solutions Delivery and Pro

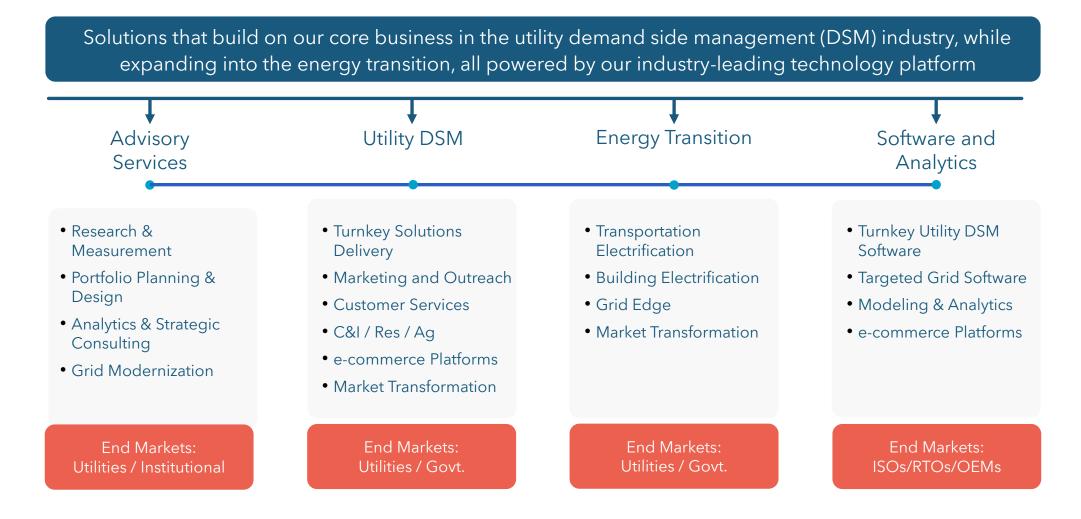
Solutions Delivery and Program Manager



Vanessa Perkins

Program Manager

RI offers a full suite of best-in-class solutions for the grid, utilities and their end customers



Broad geographic reach combined with deep client relationships

Advisory Services

- 25+ US and Canada customers
- Highly skilled team of experts
- End-to-end utility services

Utility DSM

- 90+ Utility Customers
- Geographically diversified customer base
- 99% Customer retention rate

Energy Transition

- Utility & Institutional Customers
- Key Strategic Partnerships Ecosystem
- Large strategic IOU / MUD clients

Software & Analytics

- 70+ Software Clients & Partners
- Strong Partner Channel deployed worldwide
- >95% Customer Retention

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International Grid Software & Analytics Customers



Three core TE business verticals to ensure intelligent ecosystem design and implementation

Community Electrification

The **Community Electrification**

vertical involves building & managing relationships and programs with utilities, site hosts, communities, local and state government agencies, & transportation authorities with the end goal of intelligent transportation electrification policies & programs.

Fleet Electrification

The Fleet Electrification product

is a one-stop shop for utilities looking to engage with & support commercial fleet owners who are:

(1) considering going electric, (2) slowly implementing EVs, or (3) already managing electric fleets.



Grid Optimization & Planning

The Grid Optimization & Planning

vertical engages w/ utilities & ISOs to deploy intelligence & management software needed to implement planning practices + dedicated EV & DER programs to optimize the growing EV population on the grid.

Transportation Electrification Solutions

Community Electrification

eMobility Community Funding

- Design & Administration for:
 - Grants
 - LCFS funds

Turnkey Rebate Programs

- New and Used Electric Vehicles
- Public, Fleet, and Residential Charging
- eBikes

E-Commerce & Installation Solutions

- E-Commerce for EV chargers (can be paired with VGI program)
- Product Advisor Plus

Education, Outreach & Awareness

- Benefication Lab
- Education / Marketing Support / TCO

Fleet Electrification

Turnkey Fleet Electrification

Customizable Solutions include but not limited to:

- Self Service Educational & Planning Tools
- Full Operational Analyses & Electrification Roadmaps
- EVSE & Charging Location Evaluation
- Engineering Drawings & Assessments
- Optional Additional Services

Grid Optimization & Planning

Vehicle Grid Integration (VGI) Programs

- Enrollment & Program Marketing
- Incentive Management, Customer Support
- Reporting / EM&V

Software & Data Platforms

- Grid Optimization Operations (Grid360)
- EV Charging Data Aggregation Platform (Geneva)

TE Advisory Services

- EV Adoption Forecasting & Market Simulation
- EV TOU Rate Analysis
- EM&V



Agenda

Today's Learning Objectives Program Overview 2 Program Examples 3 Lessons Applied to Program Design 4 Pacific Power: 2023 and Onward 5 Q&A 6





Today's Learning Objectives

Learning Objectives

Understand the background/context for Pacific Power's EV Grant Programs

Learn about case studies from e-mobility grant programs and their impacts on communities in Oregon

Identify the benefits to the utility from implementing equity-focused EV Grant Programs

Best practices for program design, informed by stakeholder feedback

Learn about Pacific Power's new grants and programs

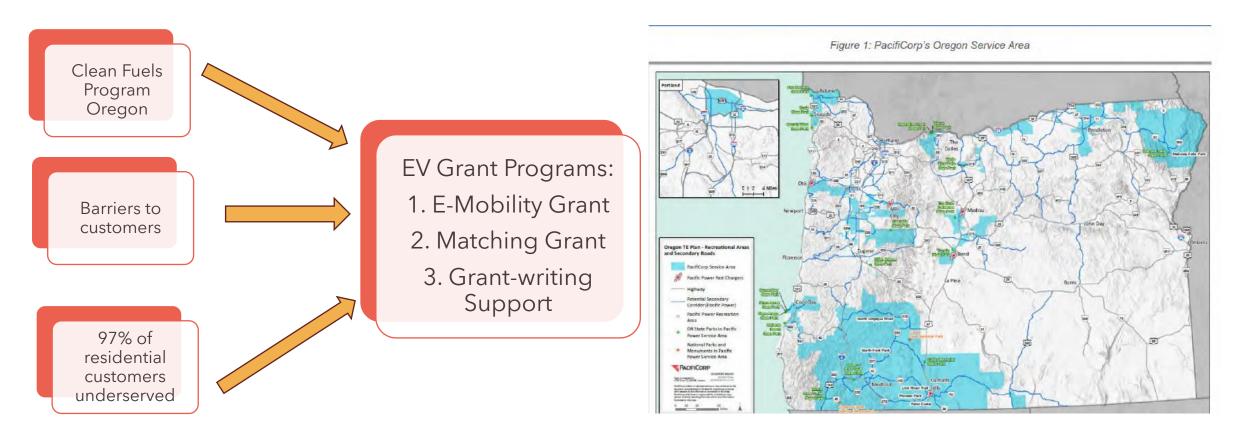




Overview



Pacific Power's Oregon Territory



600,000 electricity customers in 200 communities across Oregon ~21,000 square miles

EV Grant Program Evolution

From charger pilots to EV grant programs:

- E-mobility grant programs, grant matching, grant writing support
- Over \$5 million awarded to projects to further electric mobility
- Beyond cars and chargers

Name	Charging Infrastructure	Charging Infrastructure	E-Mobility Grant	E-Mobility Grant	E-Mobility Grant
Category	Pilot	Pilot	Program	Program	Program
Year	2018	2019	2020	2021	2022
Total Funding	\$252K	\$1.73M	\$1.35M	\$800K	\$2.05M
Projects	• Chargers/Infrastructure	• Chargers/Infrastructure	 Chargers E-tractor E-bikes E-school bus 	 Chargers Outreach/edu Shared-use EVs Fleet EVs Workforce dev 	 Chargers E-bikes Shared-use EVs Outreach/edu Workforce dev Ag EV research (ATV)



Similarities between Pac Power territory and the Southeast



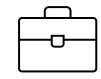
Mix of Urban & Rural



Aging Population



Income Disparities



Mix of Industries



Mountains & Elevation



Coastlines



Climate Variability

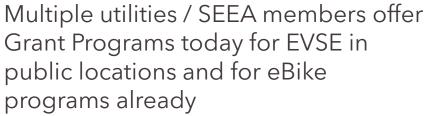


Agriculture



Grant programs in place today - SEEA Utilities









Georgia Power









Pacific Power eMobility Grant Overview

Who: Non-residential applicants

• Preference given to community-focused organizations

What: Transportation electrification-related projects are reviewed using a **scoring rubric**

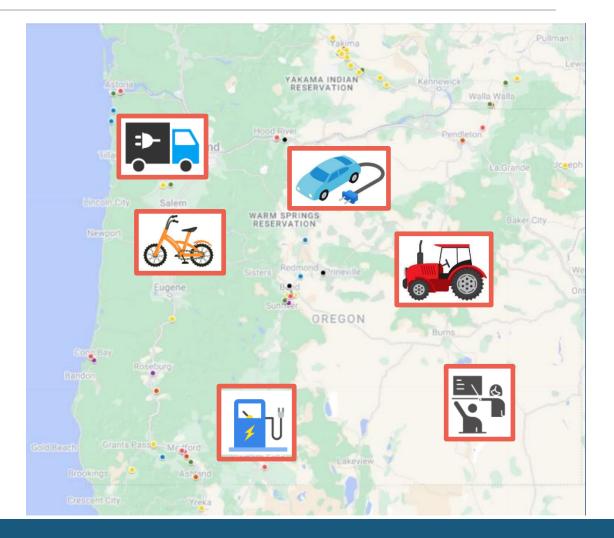
Where: Projects serve residential customers;

• Preference given to projects supporting underserved communities (HB 2165)

When: May-Aug 1X/year.

• Projects should complete in 18 months

How: Online portal or PDF app







What are some project examples that have resulted from Pacific Power's equity-centered eMobility Grant Program?

Constructing Careers





Organization: Blueprint Foundation - 501C3 that supports BIPOC workforce development green economy

Project: Procure e-cargo van and charger for student pick up and field trips

Community served: BIPOC youth and adults

Project Award Cycle: 2020

Original project timeline: June 2022 completion



- Project management
- Heat pump installation
- Home energy assessing and
- Weatherization
- Solar panel installation
- Outreach and marketing

JOB SHADOW energy efficiency professionals and solar installers.

ASSIST in making homes more energy efficient.

> EDUCATE your community to save money on bills while creating a healthier home.

EARN \$18/hr as an energy efficiency intern

CONTACT Jason Stroman to apply or request more information.

jason@theblueprintfoundation.org



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Constructing Careers 🔃 🐲 🚏

Snapshot:

- Timeline doubled
 - Awarded grant January 2021
 - Supply chain delays pivot to plug-in hybrid
- Adjusted project completion timeline: March 2023

Impact to date:

- First summer camps for green economy curriculum
- Closes mobility gap for youth participants while letting students engage directly with EV technology
- Information sharing and community engagement impacts recruitment



Summer Camp Workforce training for green careers





Circles of Care

Snapshot:

- EV costs rose after grant award (\$15k> MSRP)
 - Vehicle was recalled
- Project administration changed hands
- Adjusted project timeline: April 2023

Impact to date:

- >5k miles transporting seniors since Oct 2022
- Positive feedback from patients closes mobility gap
- Tracking and sharing data conferences, foundations, peer orgs
- On-site charger still in progress



Quality of Life

50 patients served since October 2022





Organization: Hood River Adult Center is a non-profit that enhances the lives of Hood River seniors

Project: Procure EV to enable Circles of Care program to removes mobility barriers for patients' medical needs

Community served: Low-income, senior, disabled, and veteran residents of Hood River

Project Award Cycle: 2021

Original project timeline: May 2022 completion





Organization: Crook County in partnership with various non-profits in central Oregon

Project: E-tractor share program for farmers, study, and awareness campaign

Community served: Farmers borrowing tractor and other rural residents participating in field tours

Cohort: 2020

Original project timeline: June 2021





Crook County Fairgrounds 父 💱 🔂

Snapshot:

- Vehicle cost rose after grant award ~\$8k
 - Changed vendors, delivery delays
- Adjusted project timeline: July 2023

Impact to date:

- Chargers for public (and tractor) used weekly
- Collecting data and tracking to publish
- Educational events and farm field days for hands on engagement



NCAT Small Farm Tools Field Day

E-tractor ride and drive as part of showcase for small farms.









Organization: Corvallis Benton County Economic Development Office in partnership with local bike shops

Project: Instant rebate pilot for low-income families in Benton County – 60 e-bikes

Community served: Low-income residents of Benton County and local small businesses

Cohort: 2020

Initial project timeline: June 2022







Corvallis E-bike Program [

Snapshot:

- Multiple rounds with high participation
- Minimal supply chain delays, completed May 2022
- 4 bike shops participated

Impact to date:

- 117 total interested applicants, 2 rounds, 48 instant rebates awarded (lottery)
- Provided economic opportunity more affordable to own than a car
- Seeking to scale into larger program



Affordable and Healthy

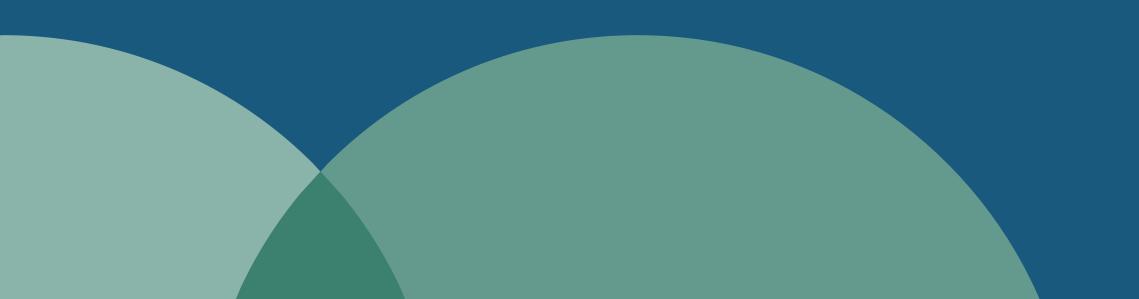
Awardees enjoyed economic and health benefits from new e-bike ownership





Who benefits from EV grant projects?

Not just the community!



Two-Way Street

Benefits Utility

- Keep a pulse on community needs and tech trends
- Critical stakeholder feedback tool
- Leverage for education/awareness of EV technology and other programs
- Testbed to foresee future program needs, infrastructure needs, pilot new tech, etc. (e.g. Corvallis)
- Low-cost administration (10-12%)



Benefits Customers

- Independent from ratepayer support
- Variety of possible funding sources and project types to allow them to be tailored to community needs
- Reduces risk for trying new clean transportation technology
- Distributes EV tech benefits to underserved communities
- Decarbonizes state transportation sector





So - what did we learn?



Lessons Learned



Lesson 1: Flexibility

- Change requests, extensions, and contingency funds processes in place
- Up-front funding option and rules revisited annually (e.g., add O&M costs, language availability, etc.)
- Consider partial funding awards

Lesson 2: Feedback and networking

- Peer roundtable and annual program review/improvement process
- Participant, applicant, and customer surveys
- Utility account manager in-person project kickoffs



Lesson 3: Rubric and Evaluation Process

- Update annually based on grant winners' project hurdles
- Re-assess weighted categories on rubric annually for equity impact
- Prioritize project readiness while understanding there are many unknowns

Lesson 4: Application support

- Customer service and accessibility
- Easy online application portal with optional downloadable PDF
- Coaching and transparency while remaining unbiased







2023 and Onward

Pacific Power: 2023 and beyond (OR)

	Y1	Y2	Y3		
		Residential EVSE Rebate Pilot Program			
Residential		Residential Time-of-Use Rate			
	+	Residential Managed Charging	Pilot Program		
	Commercial & Multifamily Technical Assistance Program				
Commercial		Non-residential EVSE Rebate Program			
&		Commercial Time-of-Use Rate			
Multifamily	+	Public Infrastructure Utility-Owr	ned Program		
		Support EV Code R	eady Enhancement		
Fleet &		Fleet Technical Assistance Program			
Medium/	+	Fleet Make-Ready Pilot Pr	ogram		
Heavy Duty	+	Public Infrastructure Utility-Owr	ned Program		
		E-Mobility Grant Program			
Grant		Matching Grant Program			
Initiatives		Grant Writing Microgrants			
		Hunicipal and Com	munity Grant Program		
Outreach		Outreach & Education Pilot Program			

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New Activity



Time for Questions

Thank you!



THANK YOU!



We want to hear from you! Please **take the survey** before you sign off.



Want to get in on the action? Learn more about SEEA's membership and sponsorship offerings at <u>seealliance.org/membership</u>.





Sign up to receive SEEA news and announcements at **seealliance.org/updates**. We promise to keep it brief and meaningful.



A special thank you to our partners and members who made today's webinar possible!



Poll / Questions

Questions throughout from beginning to end (insert slide numbers for poll questions)

- What are you most interested in gaining from today? after slide 8
 - Open ended
- Poll: Please tell us what sector you're from utility, consulting, private sector, non-profit, technology, government, other **after slide 10**
- How does your organization pursue grants? after slide 12
 - Grantor
 - Grantee
 - Partner
 - Administrator
 - We do not pursue grants at this time
- What topic are you most interested in learning more about regarding RI's TE services? After slide 27
 - Community Electrification grant administration, ecommerce, rebates
 - Fleet Electrification turnkey fleet electrification programs
 - Grid Optimization forecasting, rate analysis, vehicle grid programs

Seeded Questions SEEA can ask:

- Does Pacific Power require any sort of annual uptime reporting for grant projects that include EV charging stations?
- Can you combine PP grant funding with other grants such as federal or other utility grant funds?
- What is the pool of money available to grant applicants?
- How do you help underserved communities plan their project or provide the resources to help plan their projects to submit an application? SS

