



OREGON
DEPARTMENT OF
ENERGY



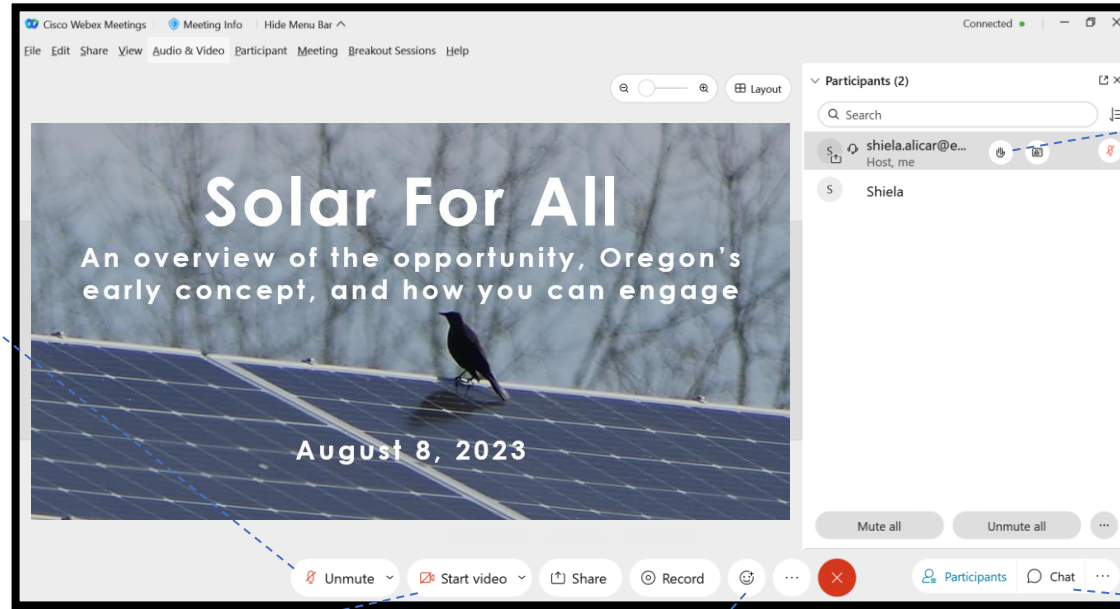
BONNEVILLE
ENVIRONMENTAL
FOUNDATION

Solar For All

An overview of the opportunity, Oregon's
early concept, and how you can engage

August 8, 2023

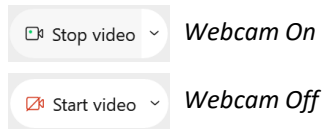
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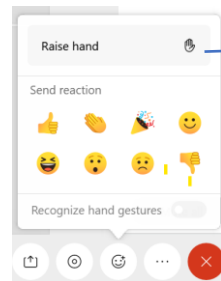
Audio Options



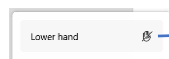
Video Options



Reactions



Click to Raise your hand.



Click on Lower hand when you are done.

Second Raise Hand Option

You can also click on the hand next to your name in the Participant list to raise your hand.

Click on Lower hand when you are done.

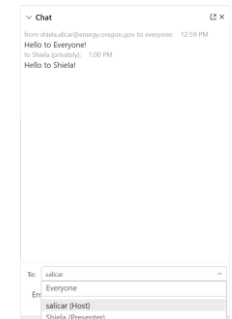


Chat

You can chat to Everyone in the meeting.



You can send a private message to the Host or Presenter (or all Panelists when there is a Panel).



AGENDA

- Welcome & Introductions
- Background on Federal Funding Opportunities
- Overview Solar for All Grant Competition
- Oregon's early concept
- Connect with us!

- ✓ **Share latest information**
- ✓ **Hear your questions**
- ✓ **Answer what we can!**



OREGON DEPARTMENT OF ENERGY

Leading Oregon to a safe, equitable, clean, and sustainable energy future.

Our Mission

The Oregon Department of Energy helps Oregonians make informed decisions and maintain a resilient and affordable energy system. We advance solutions to shape an equitable clean energy transition, protect the environment and public health, and responsibly balance energy needs and impacts for current and future generations.

What We Do

On behalf of Oregonians across the state, the Oregon Department of Energy achieves its mission by providing:

- A Central Repository of Energy Data, Information, and Analysis
- A Venue for Problem-Solving Oregon's Energy Challenges
- Energy Education and Technical Assistance
- Regulation and Oversight
- Energy Programs and Activities

Introductions



Please type in chat:

- Name
- Organization
- Email Address



BACKGROUND

Infrastructure Investment and Jobs Act and Inflation Reduction Act

During the summer and fall of 2021, Congress was negotiating on two pieces of legislation:

Infrastructure Investment and Jobs Act of 2021 (IIJA)

- Passed the House and Senate with bipartisan support
- Signed into law by President Biden on November 15, 2021
- Provides funding to support infrastructure across more than 380 distinct federal programs

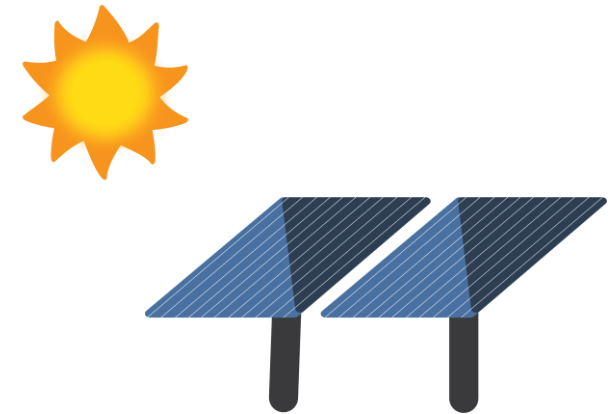
Inflation Reduction Act of 2022 (IRA)

- Passed through the House and Senate through a partisan budget reconciliation process
- Signed into law by President Biden on August 16, 2022
- Funds programs related to health, energy, and climate change using various tax measures and grants



SOLAR FOR ALL

- The Solar for All competition was authorized under the Greenhouse Gas Reduction Fund (Section 60103 of the Inflation Reduction Act of 2022).
- In late April 2023, the US EPA released a framework for the Greenhouse Gas Reduction fund, including three grant opportunities:
 - National Clean Investment Fund
 - Clean Communities Investment Accelerator
 - Solar for All



 This is the only part of the Greenhouse Gas Reduction Fund for which **states are eligible to directly apply.**

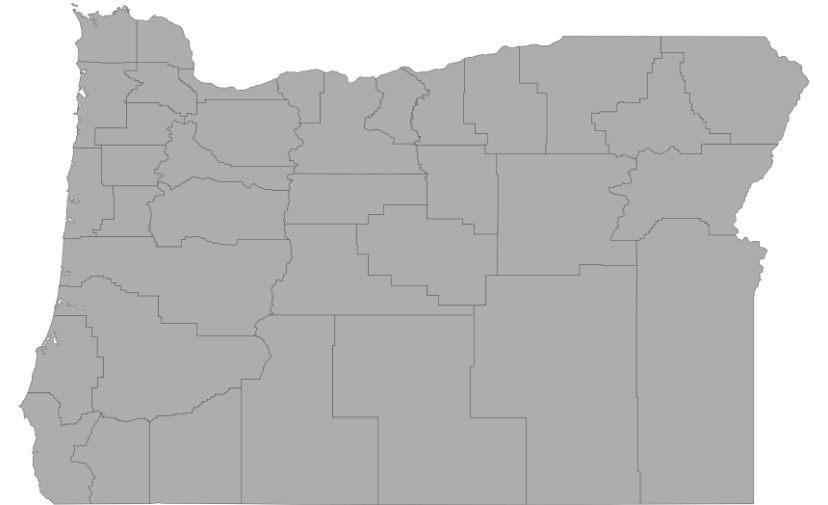
 \$7 billion in awards nationally

JUSTICE40 INITIATIVE

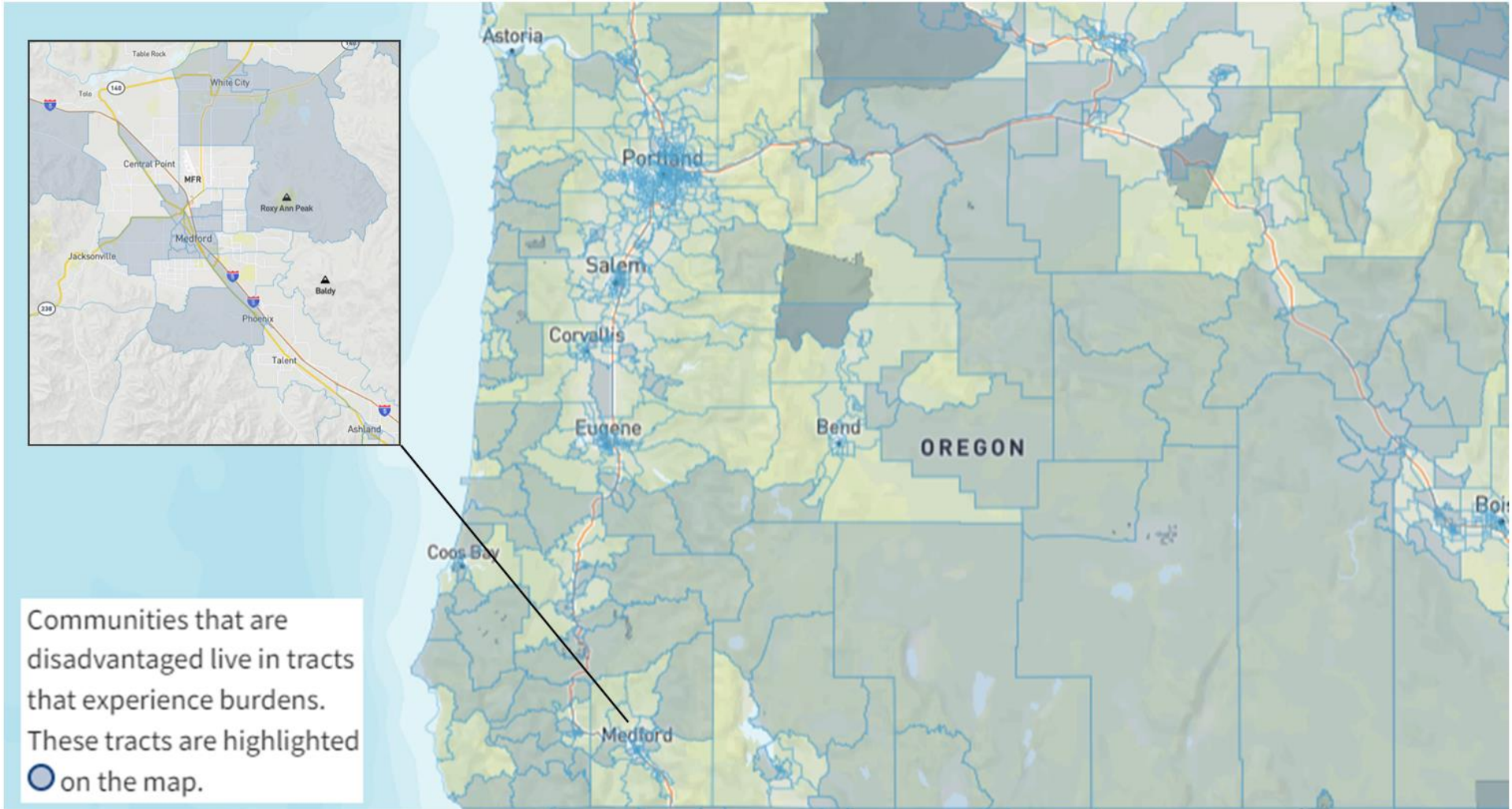
Executive Order 13985 – Advancing Racial Equity and Support for Underserved Communities Through the Federal Government

Executive Order 14008 – Tackling the Climate Crisis at Home and Abroad

- Targets 40% of overall benefits of federal investments to disadvantaged communities



CLIMATE AND ECONOMIC JUSTICE SCREENING TOOL




Three options for applications

Applicant, Award and Scope of Work information	Award Option #1 – State and Territory Programs	Award Option #2 – American Indian and Alaska Native Programs	Award Option #3 – Multi-state Programs
Eligible applicants including coalitions with a lead applicant that is an eligible recipient	States		
	Territories		
	Tribal governments	Tribal governments	Tribal governments
	Municipalities		Municipalities
	Eligible nonprofit recipients	Eligible nonprofit recipients	Eligible nonprofit recipients
Number of awards	Up to 56	Up to 5	Up to 10
Geographic Scope of work	Develop Solar for All programs that serve a specific state/territory	Develop Solar for All programs that serve American Indian and Alaska Native Communities	Develop Solar for All programs that serve similar communities in multiple states

Oregon Department of Energy-led Coalition

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ESTIMATED FUNDS AND SCHEDULE

- 
- The Notice of Intent was submitted **July 28, 2023**
 - An estimated \$100 million request
 - Application is due **September 26, 2023**
 - EPA anticipates awards agreements with successful applicants will be in place by **July 1, 2024**
 - The period of performance is five years, so estimated **July 1, 2024 - June 30, 2029**
 - Up to one year of the period of performance can be used for planning purposes.

PROGRAMMATIC OUTCOMES

Impact Assessment

- Total Number of households projected to benefit from the solar program
- Award funding requested per household (cost per household)
- Megawatts of solar capacity deployed
- Award funding per megawatts of solar capacity (cost per megawatt)
- Tons of CO₂ avoided
- Award funding per Tons of CO₂ avoided (cost per tons avoided)
- Household savings
- Award funding per household savings (cost per savings)

Meaningful Benefits Plan

- 20% household energy savings of the average household utility bill in the utility territory
- Increase low-income and disadvantaged households' access to solar through deployment options
- Deliver on energy resilience and grid benefits by creating capacity that can deliver electricity to low-income and disadvantaged communities in the event of a grid outage
- Maximize household and community ownership models

MAJOR ACTIVITIES REQUIRED OF APPLICANTS

- Distributed Solar Market Strategy
- Financial Assistance Strategy (75% of funding)
- Project Deployment Technical Assistance Strategy
- Equitable Access and Meaningful Involvement Plan

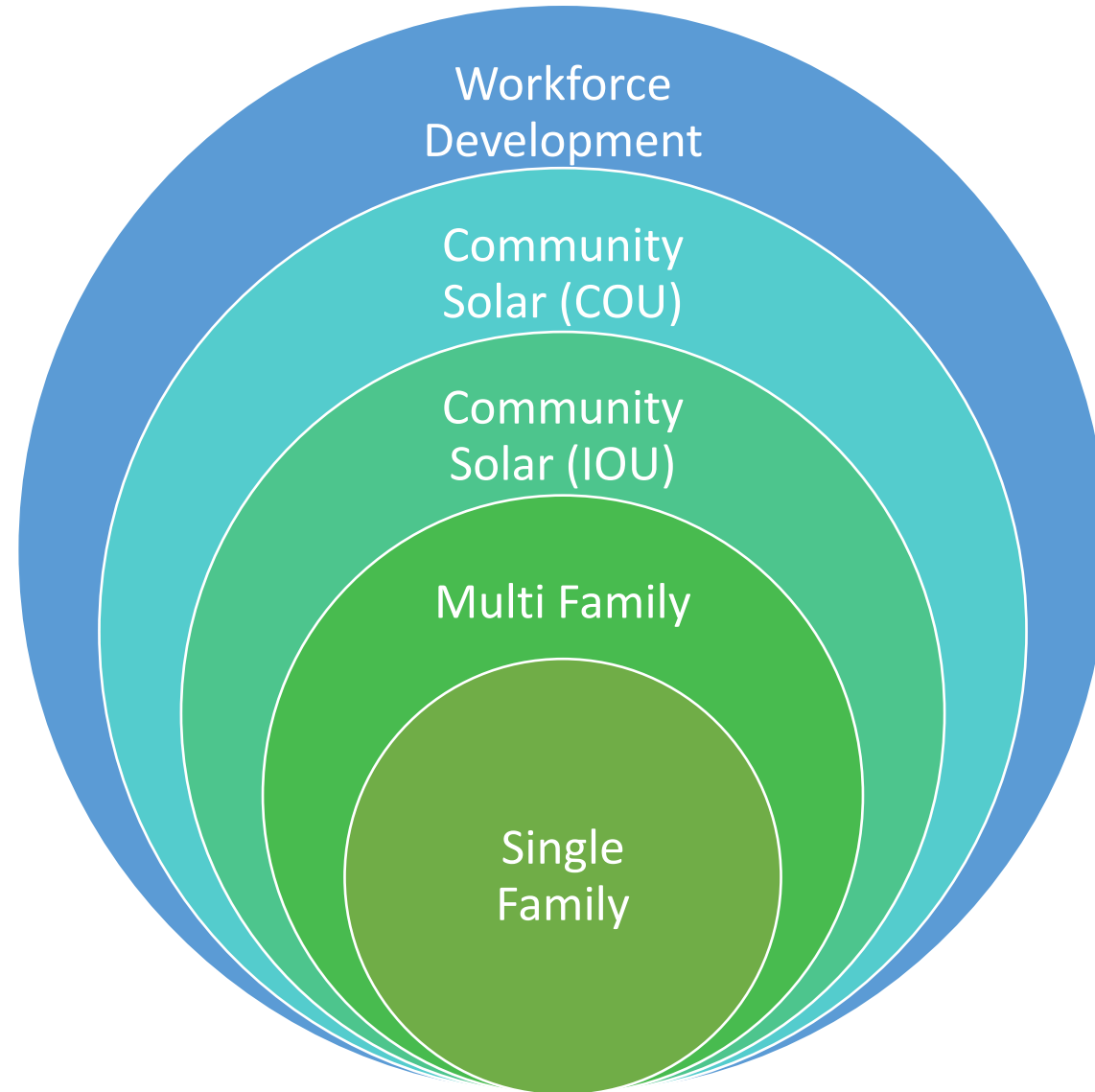


OREGON'S CONCEPT

Utilize federal funds to bring the benefits of solar installations to low-income and other disadvantaged communities in Oregon

- Work with community partners to reach disadvantaged communities.
- Increase incentives for single family, multifamily, and community solar projects that provide benefits to low-income participants.
- Develop long term strategies to support low-income participation in solar programs.
- Support workforce development in disadvantaged communities.

FIVE SOLAR FOR ALL PROGRAMS



SINGLE FAMILY

Objective: Support solar installations on low-income single-family households.

- Utilize federal funds to increase the incentive “stack” to cover high percentage of project cost.
- Leverage Energy Trust of Oregon programs and the Oregon Solar + Storage Rebate Program to minimize administrative burden.
- Coordinate with housing partners such as CAP agencies and Habitat for Humanity.
- Explore ways to extend federal funds and provide long term support for the market.

SINGLE FAMILY SOLAR INCENTIVES STACK

	Energy Trust Territory	COU Service Territories
System Size (kWdc)	5.00	5.00
Average Cost (\$ per Watt)	\$ 4.00	\$ 4.00
Project Cost	\$ 20,000	\$ 20,000
OSSRP Rebate	\$ 5,000	\$ 5,000
ETO Rebate (Solar Within Reach, Pac)	\$ 5,000	\$ -
Estimated Federal Tax Credit	\$ 4,500	\$ 6,000
Estimated Funding Gap	\$ 5,500	\$ 9,000

SINGLE FAMILY

Program Considerations

- Monetize the federal tax credit with third party partners
- Leverage additional funding partners to increase volume.
- Post-grant planning
- Support existing solar industry in Oregon

Questions:

- How can the Coalition reach low-income and disadvantaged communities?
- How can the Coalition serve residents in manufactured housing?
- Should a financing product be developed to increase volume?
- How can community organizations support and benefit from program offerings?

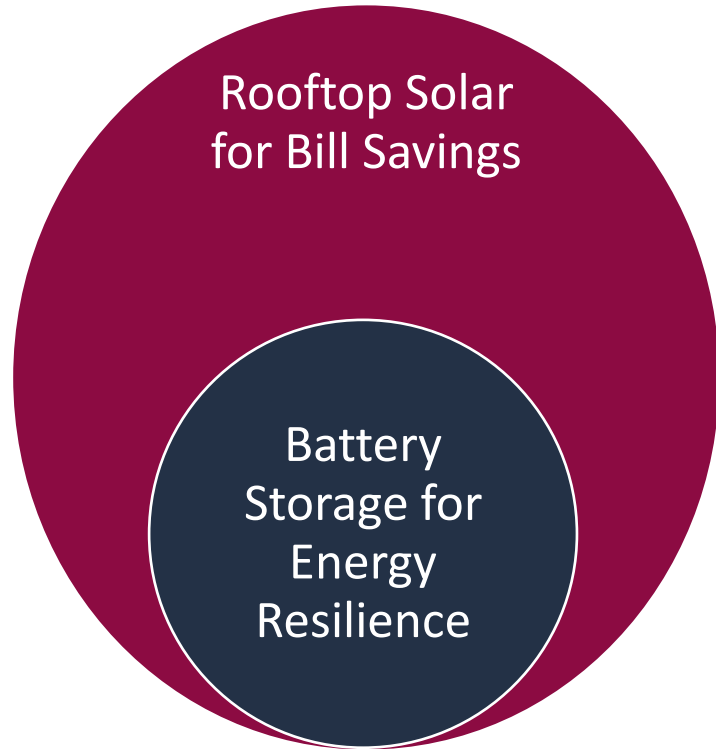
MULTI-FAMILY

Objective: Support solar installations for low-income households in multi-family housing.

- Utilize federal funds to increase the incentive “stack” to cover high percentage of project cost.
- Leverage Energy Trust of Oregon programs and the Oregon Solar + Storage Rebate Program to minimize administrative burden.
- Support storage installations for backup power systems.



MULTI-FAMILY



Questions:

- How can the Coalition ensure benefits are passed on to the residents?
- How can the Coalition reach low-income and disadvantaged communities?
- Should a financing product be developed to increase volume?
- How can community organizations support and benefit from program offerings?

TWO COMMUNITY SOLAR PROGRAMS

Objective: Support projects in the Oregon Community Solar Program with a high percentage of low-income subscribers.

- Partner with Energy Trust to develop and manage the program.
- Utilize federal funds to provide financial assistance to qualifying community solar projects.
- Leverage the existing Oregon Community Solar Program.

Objective: Support community solar projects in consumer owned utility service territories that serve low-income participants and disadvantaged communities.

- Partner with Bonneville Environmental Foundation to develop and manage the program.
- Utilize federal funds to provide financial assistance to qualifying community solar projects.
- Bonneville Environmental Foundation may work with partners in other northwest states to develop sister programs.



Solar For All - IOU Community Solar Concepts

Energy Trust of Oregon

August 8th, 2023



Agenda

- Quick intro to Energy Trust of Oregon
- About Oregon's Community Solar Program in IOU Territory
- IOU Community Solar Concepts
 - Strategy 1: Incentives for Carveout Projects
 - Strategy 2: CSP Matchmaking Service
- Feedback we would like

About us

Independent
nonprofit

Serving 2.4 million customers of
Portland General Electric,
Pacific Power, NW Natural,
Cascade Natural Gas and Avista

Providing
access to
affordable
energy

Generating
homegrown,
renewable
power

Building a
stronger Oregon
and SW
Washington



Oregon Community Solar Program (ORCSP)

Serves PGE, Pacific Power and Idaho Power

General details:

- Projects sized from 25 kW to 3 MW
- 10% must serve low-income customers
- Low-income subscribers receive 40% energy discount
- Low-income Facilitator recruits and enrolls low-income customers

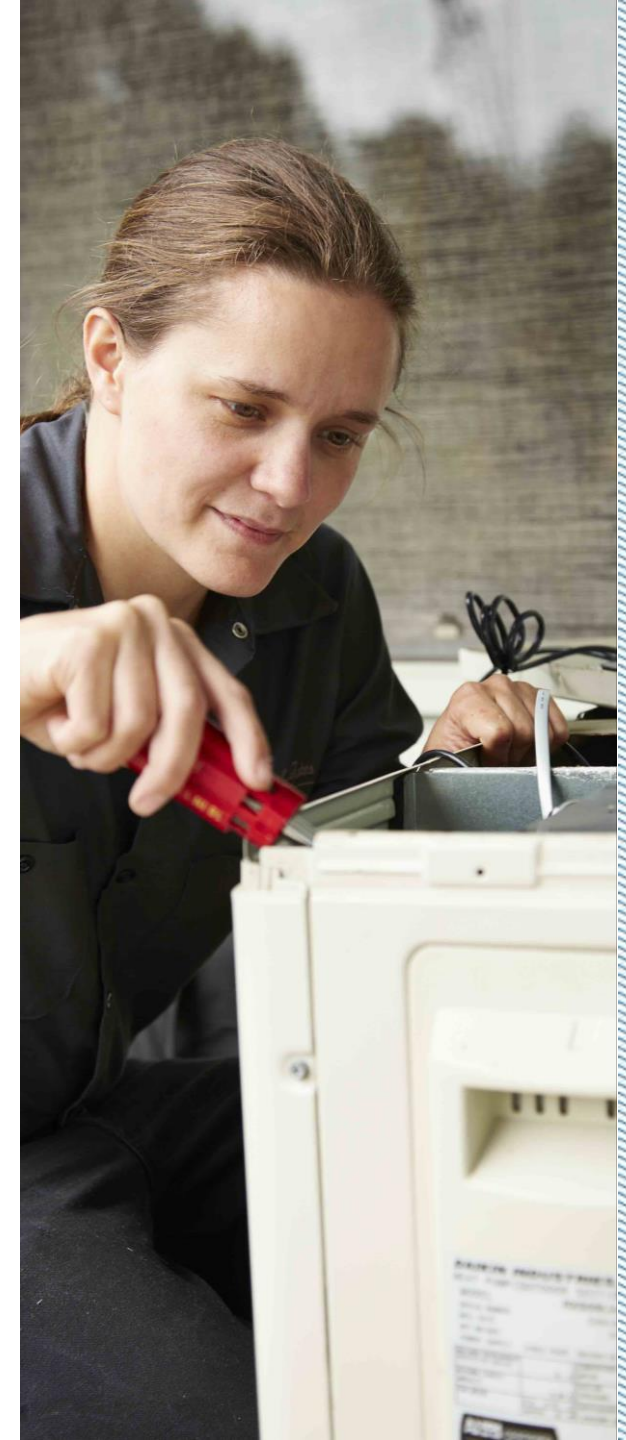
Carveout projects deliver more community benefit

Carve-out Projects

- 50% for low-income Subscribers
- Managed by a nonprofit or cooperative org
- Must partner with community-based org on outreach

ORCSP is not infinitely large

- 25% set aside for carveout projects
- Majority of remaining capacity for projects is for carveout projects





Key strategies

Goals

- More community-led CSP projects get built
- More low-income Subscriptions available to people

Strategies

- 1) Address financial barrier with strong, **stable incentives for carveout projects**
- 2) Address non-financial barriers for communities through **project matchmaking**

Strategy 1: Stable Incentives for Carveout Projects

PROBLEM: Carveout projects require extra funding and past incentives have been inconsistent / unreliable

SOLUTION: Provide a stable incentive to carveout projects that meets these projects' financial needs

- Incentives would fill resulting project revenue gap
- Mix of small and large projects

Eligibility

- 50%+ low-income participation
- Delivers mandatory bill discount (40%)



Strategy 2: Matchmaking service to overcome non-financial barriers

PROBLEMS:

- ORCSP is complex
- Community orgs have limited capacity
- Project development is a specialized skill and carries risk

SOLUTION: matchmaking service that connects projects and community organizations

How a Matchmaking Service Might Work

Energy Trust would:

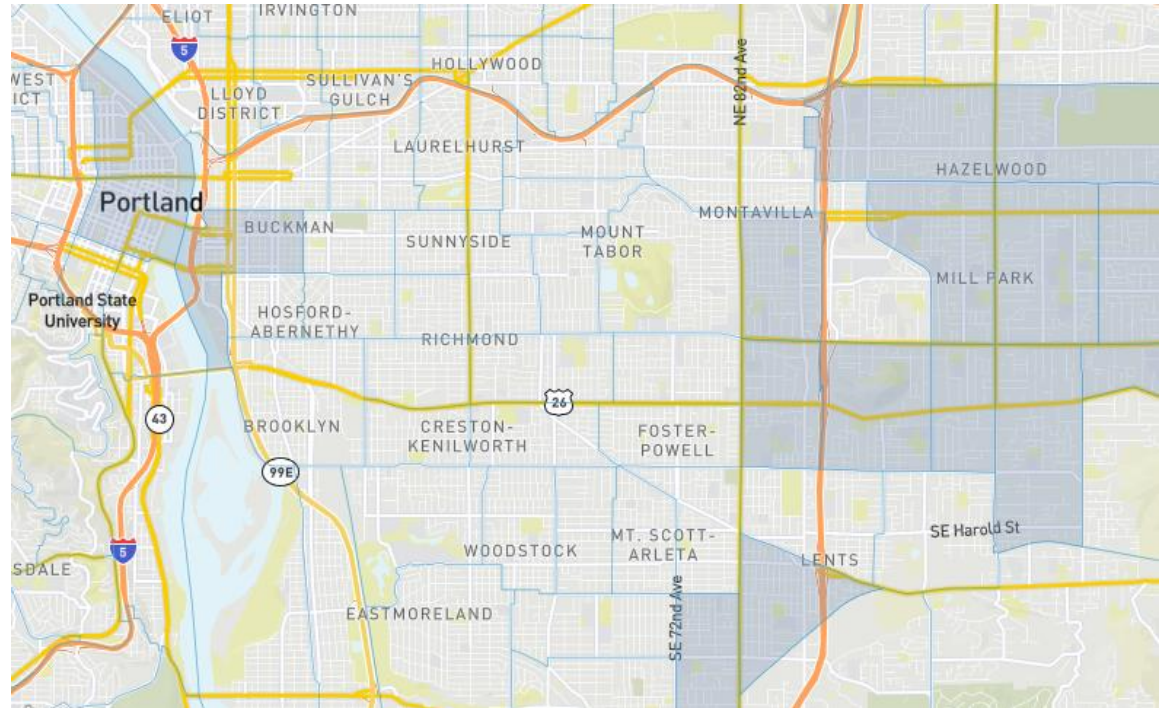
1. Establish partnerships with community orgs who want CSP for their communities
2. Procure CSP projects developed by local trade ally contractor
3. Procure Project Manager services to manage the projects long-term

The community organization would support customer enrollment



The requirements of Solar for All will need to be navigated

- Different income criteria between ORCSP and Solar for All
- Geographic requirements of Justice40
 - 40% of total spending must benefit customers in designated Justice40 areas
 - Especially tricky for PGE
- Integrating storage
 - Supported by Solar for All but ORCSP not designed for S+S





We would love your feedback

- Is the incentive concept viable?
- Is the matchmaking concept needed and viable?
- How can we further address nonfinancial barriers to small-scale CSP projects?
- What other ideas and suggestions do you have?



Thank you

Ryan Cook

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Energy Trust of Oregon

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**BONNEVILLE
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**Oregon Solar for All
Consumer Owned Utilities
August 2023**

Evan Ramsey, Sr. Director



Consumer Owned Utility Community Solar:

- BEF overview
- Community Solar Barriers
- Community Solar Opportunities
- Discussion
 - We want utility input on program design!





BEF Focus Areas



WATER
STRATEGIES &
RESTORATION



EDUCATION
PROGRAMS &
ACTIVATIONS



RENEWABLES
SOLUTIONS & SERVICES



ENVIRONMENTAL PRODUCTS
RECs, OFFSETS & WRCs

Renewables Program



UTILITIES

CONSULTING & PROJECT DEVELOPMENT



ELECTRIC VEHICLES

PROGRAM DEVELOPMENT



TRIBAL ENERGY

PROJECT DEVELOPMENT & FUNDING



LOW INCOME SOLAR

THOUGHT LEADERSHIP & DEVELOPMENT



Renewables Program



*We are dedicated to providing the **economic and environmental benefits** of renewable energy to communities throughout the Pacific Northwest.*

*We **build partnerships** that develop renewable energy projects and deliver positive impacts and cost savings to communities.*

Who we work with	What we provide
<ul style="list-style-type: none">• Tribes• Local governments• Affordable housing providers• Community groups• Nonprofits• Consumer-owned utilities• Community Development Corporations• School districts• Businesses	<ul style="list-style-type: none">• Capacity building• Site Analysis• Feasibility studies• Grant writing support• RFP development• Financial modeling• Workforce development facilitation• Project funding• Contractor selection• System monitoring• Community education





Community Partners



CHRISMAN
DEVELOPMENT
INCORPORATED



Dignity Village



Multifamily Solar Pilot Projects



**ELKHORN VILLAGE
APTS**
99.4kW
Baker City, OR

**1st Solar on USDA
Affordable Apartments**



**JIM AND SALLE'S
PLACE APTS**
48 kW
Portland ,OR

**1st to Utilize DOE
Weatherization Funds**



**SAGINAW MOBILE
HOME PARK**
103 kW
Cottage Grove, OR

**1st to Benefit
Residents Directly**



Blackfeet Nation Community Solar Project



- **Partnership**
 - Blackfeet Community College, Heart Butte High School, GRID Alternatives, Glacier Electric Cooperative, BEF
- **Workforce training**
 - Hands-on install experience and professional training for Blackfeet community members, led by GRID Alternatives
- **An estimated \$17,983 in energy savings**
 - 20 households subscribed each year, saving \$120-330/year
- **Teacher training**
 - BEF's CE Program worked with Shelby Jones, Heart Butte STEM educator to develop renewable energy curriculum



Barriers



- BPA Contracts
- Staff capacity
- Siting
- Payback
- Billing systems
- Meaningful benefits
- Equitable participation
- Customization
- Scale

Opportunities



- BPA Contract Changes
- Leveraged funding opportunities
 - USDA
 - ODOE C-REP
 - ITC – 30%
 - Low-income adder – 20%
 - Oregon Climate Protection Program
- Solar for All Technical Assistance



Innovation:

- Virtual bill crediting
- Securing grant funds maximize long term value
- Directing corporate donations to projects

Community Engagement:

- Capacitating partners
- Co-creating projects
- Patience, consistency, and longevity
- Realizing meaningful benefits and wealth building





Resources

- [American Public Power Association - The Municipal Utility Community Solar Workbook](#)
- [Achieving Cooperative Community Equitable Solar Sources \(ACCESS\)](#)
- Rural Financing Resource:
<https://www.nrucfc.coop/content/nrucfc/en/about-cfc.html>



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WORKFORCE DEVELOPMENT AND QUALITY JOBS



Meaningful benefits under Solar for All include "investing in high-quality jobs and businesses in low-income and disadvantaged communities by supporting prevailing wages, investing in effective workforce training programs for underserved populations (e.g., pre-apprenticeship and registered apprenticeship programs), and prioritizing equitable economic opportunities for women and minority-owned businesses and contractors"

Examples of programs that Solar for All may include:

- Workforce training programs that enable underserved communities to participate in opportunities presented by the energy transition.
- Wrap-around supportive services, case management, and on-the-job support and mentorship.
- Project labor and/or community benefits agreements.

WORKFORCE DEVELOPMENT AND QUALITY JOBS

Initial thoughts on workforce training investments:

- Leverage existing programs and organizations while expanding their capacity and reach.
- Extend current and emerging opportunities from Portland metro area to other regions of the state.
- Areas of focus:
 - Expand efforts to expose potential workers to the industry
 - Expand pre-apprenticeship opportunities
 - Provide support for training in rural areas and wraparound services for trainees
 - Expand contractor training and capacity-building efforts



WORKFORCE DEVELOPMENT AND QUALITY JOBS



Applicants will be evaluated on:

- Plans to work with partners that are committed to “high road” labor practices: Jobs providing benefits, predictable work schedules, retirement contributions, choice to join a union, safe and healthy working conditions

(See U.S. Department of Labor [Good Jobs Principles](#))

- Plans to expand workforce opportunities for communities facing disproportionate barriers to training and employment

WORKFORCE DEVELOPMENT AND QUALITY JOBS



What should be the workforce development priorities under Solar for All in order to reach members of low-income and disadvantaged communities?

- For example: Exposure to the industry for students and potential workers; training entry level workers; providing support to help trainees complete training programs; expanding training programs to rural and coastal communities; connecting businesses and skilled workers



What do small and aspiring contractors need to be able to take advantage of the increased opportunities under Solar for All?

- For example: Business skills like marketing, accounting, bidding on projects; technical skills like designing solar and solar plus storage systems; mentorships or other support



How should the Solar for All program encourage the creation of high-quality jobs? What role should project labor and/or community benefits agreements play in the program?



HOW STAKEHOLDERS CAN ENGAGE

1. Provide feedback through our Portal for Solar for All

<https://odoe.powerappsportals.us/en-US/sfacomments/>



2. Provide a letter of support for our effort

3. Participate in future planning efforts, if application is successful

www.oregon.gov/energyIncentives/Pages/Solar-for-All.aspx



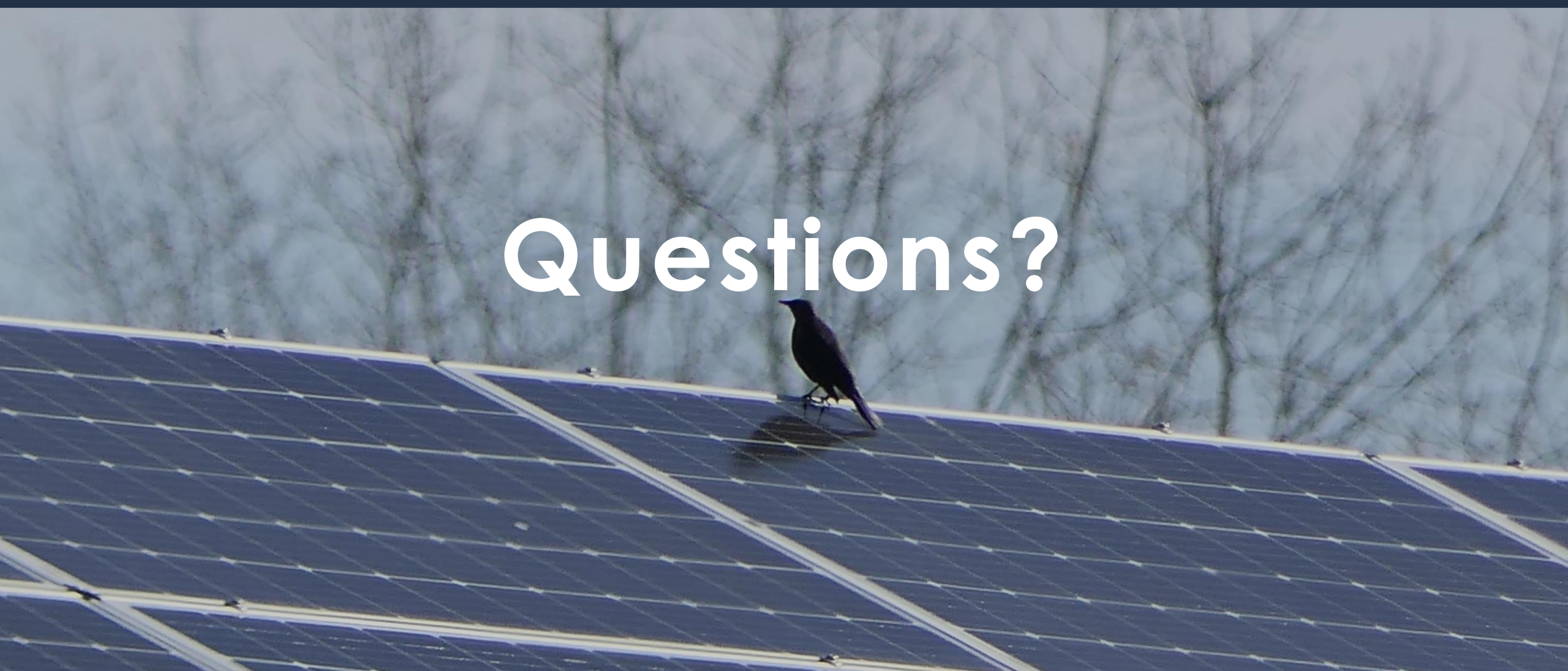


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Questions?





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Thank you for attending!

www.oregon.gov/energy/energy-oregon/Pages/IIJA.aspx

www.oregon.gov/energy/Incentives/Pages/Solar-for-All.aspx