

# 22nd Central Oregon Green Building Tour Sat, Sept 28th 9:00-6:00



# **FREE Learning Summit & Tour of Green Buildings in Central Oregon**

Thank you to our presenting sponsor



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# **The 22nd Central Oregon Green Building Tour is Brought to You By**



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#### **Venue Sponsor**





# 22nd Central Oregon Green Building Tour Sat, Sept 28th 9:00-6:00

#### All day-of events are free and open to the public

Welcome to the 22nd Central Oregon Green Building Tour, hosted by The Environmental Center. Our mission is to embed sustainability into daily life right here in Central Oregon. Thank you for joining us!

You do not need to attend the morning Summit to visit sites on the Green Building Tour! Checkin stations will be open at each tour site.

#### **Morning Summit**

#### 9-9:30 Check-in, grab coffee/tea, snacks!

Visit booths in the Tykeson Hall lobby anytime during the morning sessions to network with local green building professionals, sustainability advocates, and more!

#### 9:30-10:10 Session 1

#### Room 109 - Buildings: Climate Impact + Action

With Greensavers + Energize Bend (Robert Hammerly and Lauren Frazer)

Buildings contribute almost 40% to global annual carbon emissions! Learn about the outsized climate impact of buildings locally and discover actionable strategies for improving energy efficiency to address this impact.

#### Room 111 - Civic Advocacy Toolkits for Better Buildings

With Bend YIMBY Chapter (David Welton and Ian Karasz)

Learn from seasoned Yes In My Backyard (YIMBY) advocates about tools for organizing community members to advocate for more sustainable building in Central Oregon.

10:10-10:25 Break

# Check out how each site connects to our FOUR THEMES

#### 10:25-11:05 Session 2

#### Room 109 - Sustainable Density Strategies

With Central Oregon LandWatch (Corrie Harlan and Kristin Reidelberger) Sustainable density - is it achievable? Join this discussion on strategies for fostering equitable, sustainable urban density in Bend, Oregon.

#### Room 111 - Citizen-Science Toolkits for Home Energy Assessment + Retrofit

With GreenSavers and The Environmental Center (Taylor Mays and Satya Austin-Opper) Building science-basics and guidance to assess the energy efficiency of building and take steps to improve this efficiency. Come see a blower door kit test and a thermal heat imaging camera demo.

#### 11:05-11:20 Break

#### 11:20-12:00 Session 3

#### Room 109 - Building: Life Cycle Analysis + Healthy Materials

With Tozer Design (Jacob Fritz)

Learn about the role of selecting healthy/sustainable building materials and overall building life cycle analysis in decarbonizing our buildings.

#### Room 111 - Greywater Systems for Water Resiliency in the High Desert

With LeapFrog Design (Adam DeHeer)

Greywater capture and reuse are increasingly critical in our drought-prone High Desert landscape. Learn about the benefits of greywater systems and how to bring more into our communities!

#### 12:00-1:00 Lunch Break

#### **Afternoon Green Building Tour**

#### 1:00-6:00

#### Go on tour!

See the map on page 6 & 7 to select which sites you would like to visit.

If you are interested in visiting Ray Hall at OSU Cascades, please return from 1-3pm for their presentation, Q&A, and tour. This will be the only time the Ray Hall site will be open on the tour - see site description on page 9 to learn more.

#### Tour by bike!

Meet in the Tykeson Hall parking lot at 1pm for a tour led by Bend Bikes. E-bikes are available to rent for free, thanks to Bend Electric Bikes! E-bikes must be requested in advance - please email greentour@envirocenter.org to reserve an e-bike.

#### Test Drive and EV

The Electric Vehicle Ride and Drive will be taking place during the open tour hours at site 2 - The Current apartments. See page 10 for more information.

#### Vote for your favorite!

Scan the QR code on page 17 to vote for the 2024 People's Choice Award.







Electrification

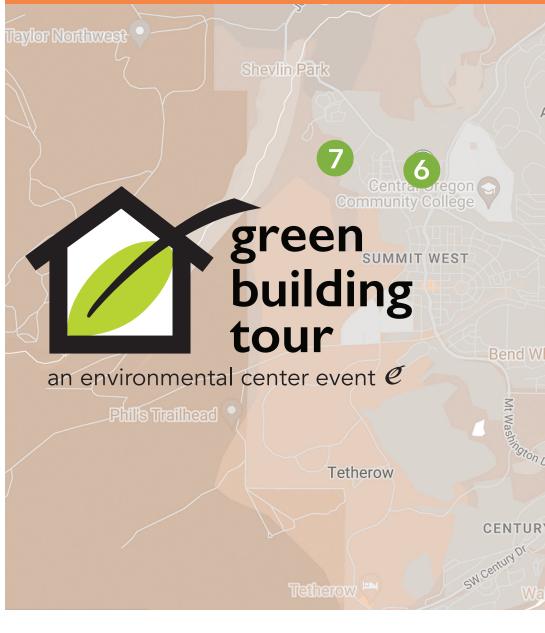


Water Resiliency in the High Desert



Materials Life Cycle Analysis (LCA)

# **22nd Central Oregon Green Building Tour**



1 Learning to Build Better

#### Ray Hall at OSU

Free coffee/tea, snacks, and tour guide pick up. Bike Tour meets here 1500 SW Chandler Ave., Bend 2 A Big Win for Above-Code Multifamily

#### The Current

Electric Vehicle Ride & Drive event here 954 SW Emkay Dr., Bend

3 Greywater Is a Go! Nature-Based Greywater Systems

**The Pitney Residence** 61639 Summer Shade Dr., Bend

# Sat, Sept 28th 9:00-6:00 30yd Acres Ra WBREY BUTTE Blockbuster MOUNTAIN ORCHARD VIEW DISTRICT RIVER WEST Bend OLD BEND nitewater Park BUS 97 LARKSPUR SE Reed Market Rd SE Reed Market Rd Y WEST 97 OLD FARM DISTRICT

- 4 Fossil Fuel Free Affordability **Woodhaven Estates** 61647 Daly Estates, Unit #3, Dr., Bend
- 5 The Chameleon Net-Zero Density in **Bend's Historic District** 199 Northwest Harriman St., Bend
- 6 Decarbonized DIY ADU The Green Residence 2325 NW Torsway St. Unit 2., Bend
- **Watts & Water Resiliency** The Kimball Residence 62655 Huntsman Loop, Bend







# Earn rebates for EV chargers

Join Oregon businesses that are embracing clean transportation. Install level 2 EV chargers at your business or multifamily property. Businesses can earn **up to \$6,000** in rebates per project and multifamily properties **can earn \$54,000** in rebates per project. We also provide **free technical assistance** to help you get started.

For more details and to apply, visit PacificPower.net/EV.



# SITE Ray Hall at OSU



#### 1500 SW Chandler Ave., Bend

Designer: SRG+Cannon **Builder:** Swinerton Construction Landscape Architect: Swift Company Structural Design: Catena Consulting Engineers **Energy Systems Commissioning:** 

Systems West Engineers

#### Learning to Build Better







Opened in 2021 as part of the OSU-Cascades campus expansion, Ray Hall is a striking educational space showcasing forward-thinking energy security and environmentally-minded planning. Built on a 46-acre remediated pumice mine, the building is net-zero energy ready and integrated into a campus District Energy System (DES). A DES is a centralized energy system that produces and distributes heating, cooling, and electricity to multiple buildings within a district or community. By using shared resources, DESs are more efficient than individual systems for each building. The design of Ray Hall features regionally sourced, sustainably harvested mass timber, that serves both structural and aesthetic roles, while also sequestering carbon, significantly lowering the building's embodied energy.

SPECIAL PROGRAMMING: (please note that this site is capped at 150 participants) Learn about this site's innovative design, mass timber construction and geothermal energyfueled heating and cooling in a presentation with Jarrod Penttila, OSU-Cascades' associate director of capital planning, before exploring the building's four levels, with views of the campus land remediation underway for future buildings.

Presentation and Tour: 1-3 p.m. (registration required - please select this ticket option when signing up)

1:00-1:30 p.m. Presentation by Jarrod Penttila, Associate Director of Capital Planning and Construction - Ray Hall Atrium

1:30-2:00 p.m. Q&A - Ray Hall Atrium

2:00-3:00 p.m. Self-tour of building. Stations on each of 4 floors will be staffed by OSU-Cascades representatives.

## SITE 2 The Current



#### 954 SW Emkay Dr., Bend

Developer: HRA

Architect: SAJ Architecture

Energy Modeling + Electrical engineer:

SÄZÄN Group

Landscaping: SZABO Landscape Architecture

**LEED certification:** Earth Advantage **General contractor:** CS Construction **Solar design and installation:** Sunlight Solar

#### A Big Win for Above-Code Multifamily



Getting multifamily buildings developed in our community is no small feat, especially those that exceed the bare-minimum energy performance standards set by building and energy codes. The Current is an example of this that we're excited to celebrate! Pursuing LEED Gold certification, this building features a 90 KW roof top solar array, along with a self-adhered air-barrier membrane and heat pump hot water heater technology. Additionally, the project provides residents with EV charging – we'll be hosting our EV test drive event there on the day of the tour! These features contribute to an estimated annual energy savings of 230,605 kWh per year – 15% better than new construction code and using 60% less energy than similar existing apartments.

#### SPECIAL PROGRAMMING:

**Free EV Test Drive** - Try out a new EV with a free test drive of electric vehicles parked at this site's EV charging stations!

**Sunlight Solar Expert Booth** - Speak with the company behind The Current's 90 KW solar array to find out how they approached the inclusion of solar on a building project of this scale!



## **SITE** 3 The Pitney Residence



#### 61639 SW Summer Shade Dr., Bend

Designer: M.O. Daby Design **Builder:** Solaire Homebuilders Greywater Systems Design: LeapFrog Design

#### **Greywater Is a Go! Nature-Based Greywater Systems**



Two years ago this site was featured as a passive house - now you'll be able to explore the full build-out of their new innovative greywater system! Greywater systems are a surprisingly uncommon form of water resiliency infrastructure in our community - unexpected, given that we live in a desert with varying degrees of annual water scarcity. That's why we were excited to showcase Bend company LeapFrog Design's innovative Estuary™ design- a nature-based greywater recycling system which repurposes and miniaturizes a natural wetlands' processes to clean and reuse household greywater. This system treats safe greywater from showers, laundry, and sinks with plants and microbes so that it can be re-used for irrigation, toilet flushing and other non-potable water needs. Such plant-based systems are more efficient, more affordable, and more beautiful than systems powered by chemicals or mechanical methods.

#### SPECIAL PROGRAMMING:

Please note that only the outdoor landscape and greywater system will be open for tour at this project.

Expert on Site - Learn from the greywater design specialists at LeapFrog Design about their company's work in our community to build water resiliency, and how they approached the intricacies of this particular project!



#### 61647 Daly Estates, Unit #3, Dr., Bend

**Designer:** DP Design Professionals **Builder:** Hive Development

**Energy Modeling + Verification:** 

Earth Advantage

Material Supply: Builders 1st Source +

**Building Solutions** 

Landscape: Organiscapes

#### **Fossil Fuel Free Affordability**









Woodhaven Estates is a multifamily "gentle density" development that adds 133 new duplex units to Central Oregon, all permanently affordable through the Thistle & Nest affordable housing land trust. Accessible to those earning 80-120% of the area's Average Median Income (AMI), the entire development is all-electric and gas free, in addition to being landscaped with water-resilient native plants. Each home is third-party energy certified Earth Advantage Platinum, built with a ready-frame system to reduce wood waste, in addition to triple-pane windows, and professional air-sealing for a building envelope that is energy-efficient. These features ensure residents enjoy both the financial and environmental benefits of green building practices for a low-carbon lifestyle.

Expert on Site - Stop by to speak with Thistle & Nest and Hive Development about the unique affordable housing land trust model that this project is a part of, in addition to their design and build choices specific to building all electric affordable housing!



# SITE 5 The Chameleon



#### 199 Northwest Harriman St., Bend

Developer + Builder: Roost Development Landscape: LOCI studios

Architect: Full Circle Design Energy Modeling & Verification: Earth Advantage

#### **Net-Zero Density in Bend's Historic District**

Walking though Bend's historic district, you'll notice a particular aesthetic - the iconic craftsman bungalow. The City of Bend has worked hard to preserve the historical architectural character of this area, but many of these existing homes are drafty and inefficient! This project demonstrates how building energy-efficiently and densely does not need to be mutually exclusive from preserving the character of local historical architecture. These Earth Advantage Platinum Certified duplexes, which comply with the Bend Historical District aesthetic, are all-electric, with heat pump heating/cooling, and use an innovative prefabricated Structural Insulated Panel (SIP) wall system, with an insulated foam core sandwiched between two structural facings (usually oriented strand board - OSB). This design eliminates thermal bridges and creates a continuous insulation barrier, significantly enhancing energy efficiency and reducing heating and cooling costs. Roost is an example of a local developer that has committed to only build net-zero buildings in our community due to their benefits.



# SITE 6 The Green Residence



#### 2325 NW Torsway St., Unit 2, Bend

Design: Will Green Build: Will Green

Material Supply: 475 High Performance Building

#### **Decarbonized DIY ADU**







"The biggest piece of advice I can offer is to stay curious and flexible. There are countless innovative ways to achieve the goals of a green, energy-efficient, and comfortable home that don't rely solely on expensive foreign materials and vapor barriers."

This backyard ADU is more than just a cozy retreat-it's a cutting-edge model for green construction. Designed by local Will Green, the project features a low-carbon pier-and-beam foundation, which reduces the amount of concrete used in the project (a material with high embodied carbon - attend Jacob Fritz's speaker-session to learn more!). Its high-performance, ductless ventilation system is the Lunos e2 Heat Recovery Ventilator (HRV), which both reduces the energy that is often lost through ducts, and also recovers heat from outgoing stale air and transfers it to incoming fresh air, thus saving energy. This is paired with natural materials like fire-resistant charred Sugi Ban siding, and wool insulation, which not only boost the structure's climate-resiliency, durability and thermal efficiency, but also positively impact the health and comfort experience for occupants.

Expert on Site - Speak with Will Green about his experience building this project alongside Ian Nimmo, with 475 High Performance Building Supply.



# SITE The Kimball Residence

#### 62655 Huntsman Loop, Bend

Architect: Karen Smuland **Builder:** Timberline Construction HVAC: Moore Heating and Cooling

Energy Modeling + Verification: Earth Advantage Landscape Design: Szabo Landscape Architecture

#### **Watts & Water Resiliency**



"We care about the future of life on this Earth and about our children having a healthy livable environment." Kristi Kimball

When the Kimball's realized the environmental toll of conventional building practices, they decided to take action to address the impact of the space they spend the most time in - their home. This all-electric building features above code-building practices such as staggeredstud walls which create a robust thermal building envelope (head to the Building Science Toolkits workshop to learn more!), and a ductless heat pump mini-split system which reduces energy losses associated with ductwork, and lowers utility costs. Their compact Hydra Loop greywater system treats and recycles greywater from showers, baths and washing machines for non-potable uses such as toilets, and irrigation. This reduces water consumption by up to 45%! The site also features a variety of conscious material choices, such as recycled concrete (lowers the embodied carbon of the project), formaldehydefree cabinets and green drywall, which are better for indoor air-quality, occupant health and the health of workers who manufacture these products.



# BUILT BETTER

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## **FOR YOU FAVORITE**

Vote for your favorite! Scan the QR code to find the voting form on our website. Cast your vote for the winner of the People's Choice Award- announced at the post-event celebration!

envirocenter.org/ peopleschoiceaward

















WEATHERIZATION









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#### GREEN BUILDING DIRECTORY

Green Building Connections: ○ Sponsor ○ Summit Program Site involvement Tour Alum Staff Pick

#### DESIGN

#### Audrey Allen Design

Phone: 541-420-2942

Email: aadesign@bendbroadband.com

Web: aahomedesign.com

#### Cheryl Heinrichs Architecture

Phone: 541-382-8914

Email: cheryl@charchitecture.com Web: charchitecture.com

#### Full Circle Design

Phone: 541-241-0010 Email: glen@fullcircledb.com Web: fullcircledb.com

#### Fuse Design & Build

Phone: 541-410-0625

Email: tom@fusedesignbuild.com Web: fusedesignbuild.com

#### Hennebery-Eddy Architecture

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#### Karen Smuland Architect

Phone: 541-788-4357

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#### Ryan Starr Designs & Architecture LLC

Phone: 805-801-6840 Email: ryan@starrdna.com Web: starrdna.com

#### Saj Architecture

Phone: 541-330-6506 Email: info@saj-arch.com saj-architecture.com Web:

#### ScaleHouse + Bend Design Conference

Phone: 541-640-2186 Email: info@scalehouse.org Web: scalehouse.org

#### **Shelter Studio**

Phone: 541-306-4270

Email: jason@theshelterstudio.com Web: theshelterstudio.com

#### Stemach Design + Architecture

Phone: 541-647-5661

Email: stacey@stemachdesign.com Web: stemachdesign.com

#### Tozer Design

Phone: 541-383-9015 Email: at@tozerdesign.com Web: tozerdesign.com

#### **ENERGY EFFICIENCY ORGANIZATIONS**

#### Central Electric Cooperative

Phone: 541-312-7742 Email: telzinga@cec.coop

Web: cec.coop

#### Elemental Green

Email: info@elemental.green Web: elemental.green

#### Energy Trust of Oregon

Phone: 503-493-8888 Email: info@energytrust.org

Web: energytrust.org

#### **Environmental Center Free Home Energy Assessments**

Email: satya@envirocenter.org Web: envirocenter.org.hea

#### **Neighbor Impact**

Phone: 541-548-2380 Web: neighborimpact.org

#### Pacific Power

Phone: 1-888-221-7070

Email: wattsmart@pacificpower.net

Web: pacificpower.net

#### **ENERGY PERFORMANCE MODELING & TESTING**

#### DHP Energy

Phone: 541-460-2662

Email: dhpenergyllc@gmail.com

Web: dhpenergyllc.com

#### **Earth Advantage**

Phone: 503-968-7160

Email: mdouglas@earthadvantage.org

Web: earthadvantage.org

#### **GREEN COMMUNITY PARTNERS**

#### Alpenglow Agency

Phone: 503-933-4333 Web: alpenglowagency.com

#### Strictly Organic

Phone: 541-330-6061

Email: coffee@strictlyorganic.com Web: strictlyorganic.com

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#### Mountain Burger

Phone: 503-874-4014

Web: mountainburgerbend.com

#### **HOUSING + BUILDERS**

#### Brooks Resources

Phone: 541-382-1662 Web: brooksresources.com

#### NorthWest AeroBarrier

Phone: 541-728-3634 Email: info@nw-ab.com

Web: northwestaerobarrier.com

#### CS Construction

Phone: 541-617-9190

Email: joshuah@csconstruction.com

Web: csconstruction.com

#### Perennial Building

Phone: 843-997-2310

Email: karen@perennialbuilding.com perennialbuilding.com

#### Copperline Homes

Phone: 541-330-8700

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#### Roost Development

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#### Dream Home Building & Design

Phone: 310-938-2754

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#### **Rooted Homes**

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Email: jackie@rootedhomes.org Web: rootedhomes.org

#### GreenSavers

Phone: 541-640-5157

Email: hello@greensavers.com Web: greensavers.com

#### Solaire Homebuilders

Phone: 541-383-2140

Email: kate@solairehomebuilders.com Web: solairehomebuilders.com

#### Habitat for Humanity

#### **Bend-Redmond**

Phone: 541-385-5387 Email: info@brhabitat.org Web: bendredmondhabitat.org

#### Thistle & Nest / Hive Development

Phone: 541-330-8758

Email: amy@hivedevelopmentll.com

Web: thistleandnest.org

#### **Habitat for Humanity** Lapine-Sunriver

Phone: 541-593-5005

Email: info@habitatlapinesunriver.org Web: habitatlapinesunriver.org

#### Timber & Earth Construction

Phone: 570-239-2171

Email: jweaver@timber-earth.com

Web: timber-earth.com

#### **Hiatus Homes**

Phone: 458-256-8827 Web: hiatushomes.com



# who ride bikes



#### GREEN BUILDING DIRECTORY

#### **LANDSCAPE**

#### Bend Urban Gardens

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#### High Desert Horticulture Center

Phone: 541-548-5020

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#### Szabo Landscape Architecture

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#### Tangled Roots Restoration

Phone: 802-922-6410

Email: mattesons47@gmail.com

#### Wintercreek Nursery

Phone: 541-420-0083

Email: ben@wintercreeknursery.com Web: wintercreeknative.com

#### Your Garden Companion

Phone: 541-203-0734

Email: info@yourgardencompanion.com Web: yourgardencompanion.com

#### **MATERIALS SUPPLIERS**

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Phone: 888-916-1088 Email: info@475.supply Web: 475.supply

#### **Brilliant Environmental Building Products**

Phone: 541-317-0202

Email: info@brilliantmaterials.com Web: brilliantmaterials.com

#### **POLICY + ADVOCACY**

#### Bend Central District Initiative

Web: bcdinitiative.org

#### Energize Bend

Email: info@energizebend.org Web: energizebend.org

#### **Building a Better Bend**

Phone: 541-408-7043

Email: buildingabetterbend@gmail.com

Web: bcdinitiative.org

#### **Envision Bend**

Phone: 541-604-8429

Email: info@envisionbend.org Web: envisionbend.org

#### Building Resiliency Coalition

Email: info@buildingresiliencecoalition.org Web:

buildingresilience.org

#### Yes in My Backyard (YIMBY) - Bend Chapter

Email: hello@bendyimby.org Web: bendyimby.com

#### **Central Oregon Landwatch**

Email: info@colw.org

Web: centraloregonlandwatch.org

#### ZeroCoalition

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#### Jason Bradley

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#### Pro Property Photos

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#### **SOLAR**

#### E2 Solar

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e2.solar

#### Sunlight Solar

Phone: 541-322-1910

Email: joe.mazzarella@sunlightsolar.com

sunlightsolar.com

#### **TRANSPORTATION**

#### Bend Bikes

Email: info@bendbikes.org bendbikes.org Web:

Central Oregon Intergovernmental Council (COIC)

Phone: 541-548-8163 Web: coic.org

#### **Bend Electric Bikes**

Phone: 541-668-7252

Email: info@bendelectricbikes.com bendelectricbikes.com Web:

#### WATER RESILIENCE

#### LeapFrog Design

Email: info@leapfrog.design Web: Leapfrog.design

Green Building Connections: ○ Sponsor ○ Summit Program Site involvement Tour Alum Staff Pick

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:odav!



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#### Residence walkthrough

A home energy assessor from The Environmental Center will visit your home for a 30-60 minute walkthrough to learn how efficiently your home is using energy and identify areas for energy efficiency and comfort improvements.



#### Recommendations and incentives

Your home energy assessor will connect you to trusted contractors and help you navigate the process of installing recommended energy-saving home upgrades.



#### **Cost savings and comfort**

The Environmental Center will access Energy Trust of Oregon incentives to significantly lower, or potentially eliminate, the cost of your upgrades.

























# **Act now for solar savings!**



Your neighbors in Bend, Redmond and other parts of Deschutes County are going solar—you can too! Install solar to generate clean energy, live lighter on the planet and save on home energy bills! It's easy and more affordable during the Solarize Deschutes campaign. You can also add smart battery storage for essential backup power.

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