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## **Energy Trust of Oregon's Path to Net Zero Initiative: Supporting Projects and Creating a Community**

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We change the way  
people use energy™

- Introduction
  - Supporting projects
  - Creating a net zero community
  - Results
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## About Energy Trust of Oregon

- Independent nonprofit
- Serving 1.5 million customers of Portland General Electric, Pacific Power, NW Natural, and Cascade Natural Gas
- Providing access to affordable energy efficiency
- Generating homegrown, renewable power
- Building a stronger Oregon and SW Washington

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### Creating a path to net zero

Pictured: Hood River Middle School (photo courtesy of Energy Trust)

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## To get on the “Path”

- Set an EUI target aligned with 2030 Challenge or better
- Achieve the target through efficiency and renewables



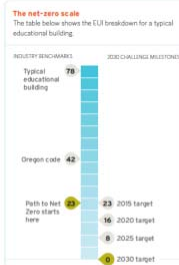
Image courtesy of Energy Trust

## DEFINE YOUR PATH TO NET ZERO

EUI TARGETING AND PLANNING WORKSHEET FOR EDUCATIONAL BUILDINGS

### THINK NET ZERO

The most important steps in designing and constructing a Path to Net Zero building occur during kick-off and planning. First, establish a clear, measurable goal by identifying the target Energy Use Intensity (EUI) of your building. As illustrated in the scale below, educational buildings used for technical or classroom instruction must set a minimum EUI of 23 to be eligible for Energy Trust of Oregon's Path to Net Zero. Doing so aligns with the Architecture 2030 Challenge missions for 2015, and is equivalent to approximately 80 percent savings beyond Oregon Energy Efficiency Specialty Code. Once you've established your target EUI, document your initial design approach for each building system on the next page. As you move through design and construction, your team can refer back to this worksheet to ensure your project stays on the Path to Net Zero.



**Target EUI**

Building name: \_\_\_\_\_

Location: \_\_\_\_\_

Owner contact: \_\_\_\_\_

EUI is a direct measure of a building's energy use, expressed as the energy use per square foot per year. For further information on EUI targets and the 2030 Challenge visit [www.energytrust.org/zero](http://www.energytrust.org/zero)



### DESIGN NET ZERO

Use the spaces below to document key design strategies for achieving your target EUI.

**HVAC**

**HOT WATER**

**LIGHTING**

**PROCESS LOADS**

**RENEWABLES**

**OTHER**

**Questions? Contact us**  
 Energy Trust outreach managers can offer input and feedback as you make energy-related decisions and assist you in completing this worksheet. If you have questions or need help getting started, contact the outreach manager listed here or visit [www.energytrust.org/zero](http://www.energytrust.org/zero)

Name: \_\_\_\_\_

Email: \_\_\_\_\_ Phone number: \_\_\_\_\_

Image courtesy of Energy Trust

## Project Incentives

- Early design: Up to \$10,000
  - EUI targeting tool
- Design development: 75% of cost of studies
  - Shoebox modeling, energy modeling, CFD, daylighting, Cx design review

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## Project Incentives

- Construction
  - Modeling: \$0.40/kWh and \$1.20/therm
  - “Very Best” in other offerings
- Post-construction
  - Commissioning
  - Metering
  - Certification

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### Creating a net zero building community

Pictured: ecoFLATS (photo courtesy of Energy Trust)

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## Creating a community

- Training and education
- Net zero fellowship
- Recognition

<http://energytrust.org/pathtonetzero/>

Pictured: Cowhom Winery  
(photo courtesy of Energy Trust)



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## Results – Supporting Projects

- Pilot results: 8 buildings
  - 7 were modeled to achieve targets
  - Evaluation: 3 out of 6 were still on target
- Current offering:
  - 40 projects so far (4 are complete)
  - Mix of building types and sizes
  - Varied locations throughout Oregon
  - Some going for NZ, many just trying to meet 2030 goals.

## Results – Creating a Community

- Training and education
  - Over 20 trainings and workshops delivered to over 600 practitioners in 2016.
    - Owners, architects, engineers, developers, green building consultants
  - Feedback has been very positive
    - Sharing of successes and challenges
    - Participants sharing with us anecdotally that they are able to integrate ideas from the trainings into their building projects
    - Participants appreciate the focus on process as well as technology

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Thank you

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