Energy Trust of Oregon

NET ZERO FELLOWSHIP RESEARCH

Check Out Our Innovative Resources, Tools and On-Demand Trainings

Recipients of the Net Zero Fellowship use grant funding to research net-zero building practices, address potential barriers and help us all build a more sustainable future. Energy Trust of Oregon invites you to check out their discoveries.

ROB ROY
PACIFIC CREST AFFORDABLE HOUSING

Making and Saving Energy on the Path to Net Zero:
Best Practices and Tools for Affordable Multifamily Housing

Rob's research sought to strengthen the business case for net-zero affordable housing developments. He evaluated the efficacy and replicability of Pacific Crest's financial model, which considered the long-term monetary impact of implementing various energy efficiency measures and renewable energy systems. He analyzed the energy performance of three completed projects; the findings informed the development of a tool and template that is available to other affordable-housing developers.

ANYELEY HALLOVÁ
ADRE

The Williams & Russell Project:
District Systems for Equity-Centered Development

Anyeley, working with her team at Adre, explored opportunities for district energy, water and waste systems to bring resiliency as well as economic and environmental benefits to historically underinvested communities. Williams & Russell will provide housing, homeownership and a hub for Black businesses in the North Albina neighborhood. The research includes analysis of multiple strategies, including a microgrid, with lessons learned for other district-scale projects and buildings.

JEAN VON BARGEN ROOT
MWA ARCHITECTS

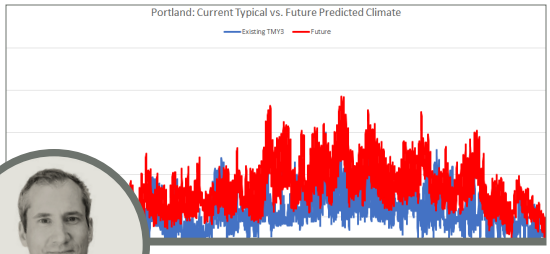
Removing Barriers to Net Zero Commercial-Industrial Development

Jean evaluated current and future climate conditions, assessing how local codes, standards and policies help or hinder net-zero performance in commercial-industrial developments. The study looks at the three fastest-growing regions in Oregon where commercial-industrial development patterns have the greatest impact on energy consumption: Willamette Valley, Rogue Valley and High Desert.

JESSY LEDESMA
HOMEWORK DEVELOPMENT

A Prototype for Affordable, Resilient, Low-Energy Cottage Cluster Housing

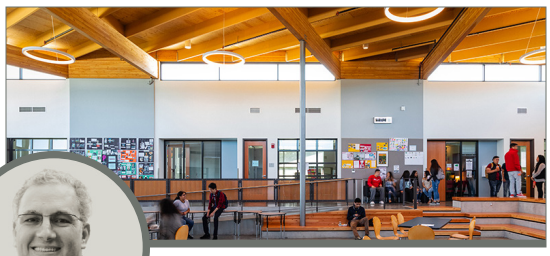
Jessy explored energy efficiency in affordable housing and the impact of clustering units, using mass plywood panels, centralizing mechanical and hot water systems, and optimizing development scale for solar microgrids. The analysis focuses on the Milwaukie Courtyard Housing Project, which seeks to prototype this type of housing to meet community energy, affordability and resiliency goals.



JOEL GOOD
RWDI

Passively Building for Resiliency

Joel's research looks at passive design strategies that create resiliency and prepare new buildings for a changing climate. He examined Oregon's future climate conditions and offers a standardized method, as well as future climate files for two different climate zones (Portland and Bend) to assess the resiliency of proposed developments in Oregon.



DR. IHAB ELZEYADI
UNIVERSITY OF OREGON

Net-Zero Schools From Process to Impact

Ihab offers a database of net-zero schools in the U.S. after evaluating them based on six major categories: design process, design strategies, site performance, building performance, envelope performance and indoor environmental quality/occupant performance. Out of 41 verified net-zero school buildings, the project focused on seven that are relevant to the Oregon climate.

Scan to access this research and more from our Net Zero Fellows, or visit **www.energytrust.org/net-zero-fellowship**.

Energy Trust of Oregon 421 SW Oak St., Suite 300, Portland, OR 97204 1.866.368.7878 **energytrust.org**