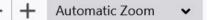
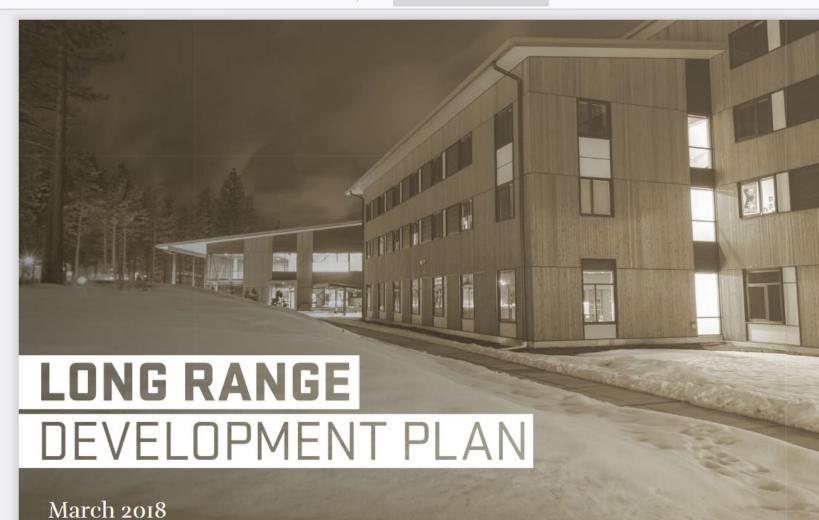
Climate Resilience and Sustainability Strategies at OSU-Cascades



Dregon State Universi Cascades





"University goals for net zero energy, water, and waste will be addressed with creative solutions to campus infrastructure that will minimize dependency on precious resources.

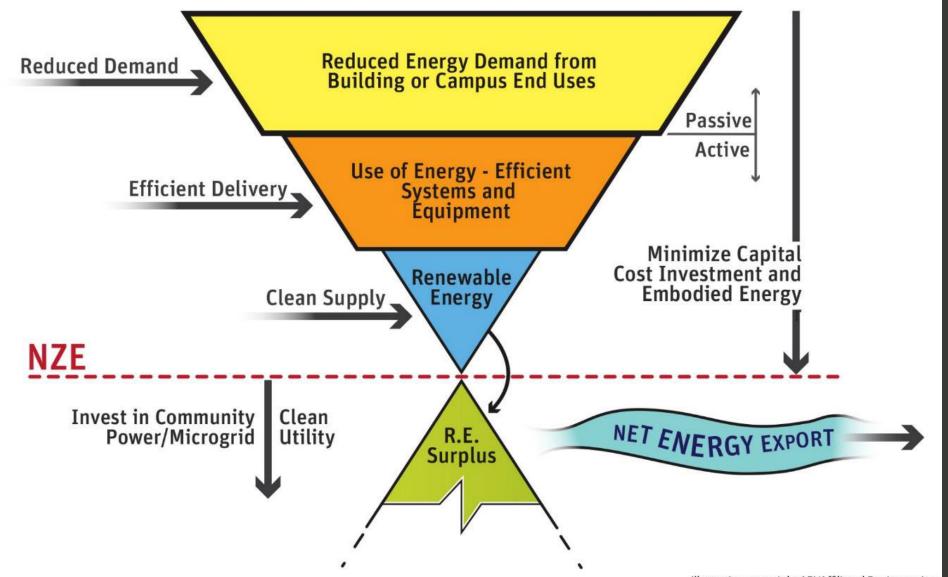
OSU-Cascades will establish itself as a leader in resilient design, providing a model for other university campuses and the surrounding Central Oregon community in sustainable development for arid climates."

Oregon State University – Cascades Bend, Oregon





Analysis: Net-ZERO





Buildings

Tykeson Hall

- upgraded shell and windows
- passive solar orientation
- solar ready
- LED light conversion in 2020



11 Oregon State University Cascades

Residence Hall

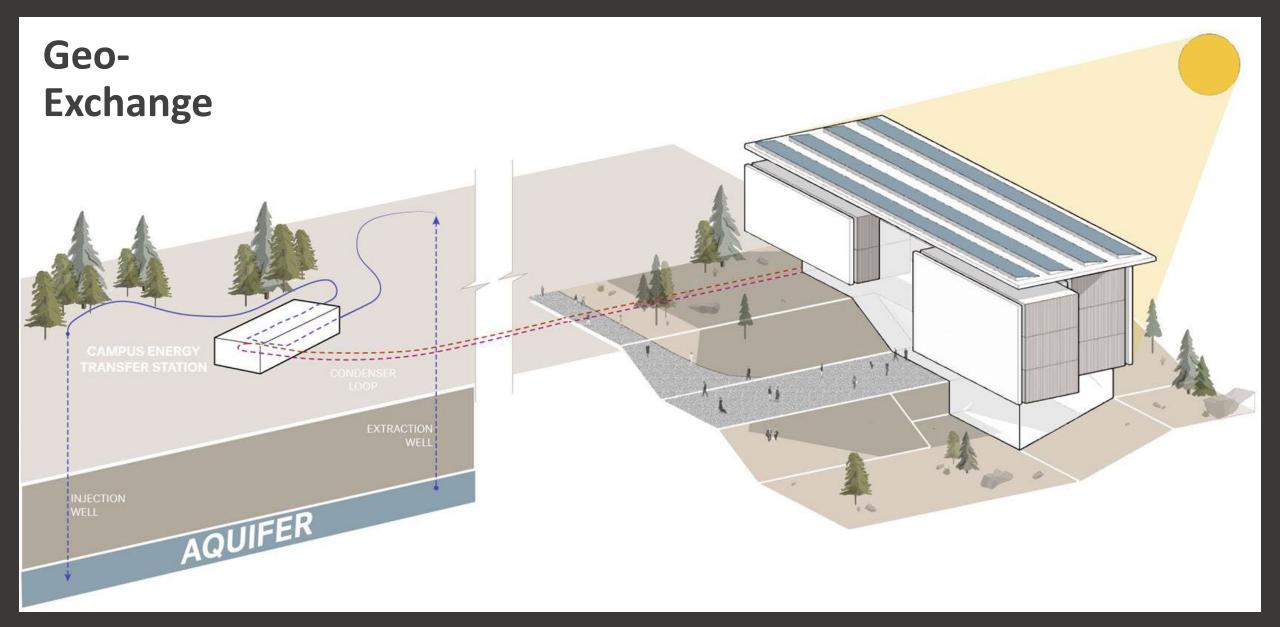
- Heat recovery ventilation system
- passive solar orientation
- solar ready
- LED light conversion in 2020
- Real-time energy display

Obsidian Hall

- Upgraded windows
- Solar ready
- LED conversion in 2020

Ray Hall

- Mass Timber
- Net Zero ready
- Open-loop groundwater geo exchange
- High efficiency heating and cooling units





Landscaping

- Native plants
- Plant salvage
- Novel ecosystems^{bian} Hall
- Learning lab

Transportation

- Incentive programs
- Paid parking
- Free carpool parking
- Carpooling app
- Free bus passes
- Past efforts (bike share, Zip Cars, on-demand transit pilot study



Moving Forward

- Energy Systems
- Water recovery/re-use
- Waste

