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GREEN BUILDINGS

Portland State's campus is home to many buildings that serve as models of innovative sustainable design and construction, including eight buildings certified by the U.S. Green Building Council under the Leadership in Energy and Environmental Design (LEED®) rating system. Since 2004, it has been PSU's policy to follow LEED® guidelines for all new construction and major renovations on campus.



GEOTHERMAL & DISTRICT ENERGY

Four underground geothermal heat pumps (different than geothermal power) improve energy efficiency on campus by using the natural heat of the earth to warm or cool buildings. These pumps connect to PSU's Campus Loop, a district energy system that generates steam and chilled water from centralized plants and distributes it underground to 15 buildings. As a result, these buildings don't need their own boilers or air conditioners and the University benefits from greater reliability, efficiency and lower utility costs.



SOLAR PANELS

EFFICIENT HEATING AND COOLING LOOP



GREEN ROOF



RAIL TRANSIT LINES



GARDEN PROJECT



PORTLAND STATE UNIVERSITY

sustainability walking tour

Follow this self-guided tour to learn about green innovations at PSU

At Portland State, we strive to have everything we build teach us, and everything we learn help us create a better world. Our 50-acre urban campus is a vibrant, living laboratory for practicing sustainability, extending outside the classroom into offices, eateries, plazas, and gardens. In the coming decades, our goal is to be a model of sustainability not only for a university campus, but also for the surrounding neighborhood, city, region, and even the globe.



It all starts here. This self-guided tour will take you to many of the innovative, green features of our campus.

Welcome to PSU, part of the SoMa EcoDistrict!

PSU lies in the heart of the SoMa (South of Market) EcoDistrict, one of five pilot districts in Portland where opportunities are being explored to green not only buildings, but entire neighborhoods. EcoDistricts aim to capture, manage, and reuse a majority of energy, water, and waste on site; provide a range of transportation options; ensure a rich diversity of habitat and open space; and enhance community engagement and well-being.

1 Urban Plaza

SW MONTGOMERY BETWEEN SW 5TH AND 6TH

The Urban Plaza is a center of activity at Portland State. With the Streetcar passing diagonally through the plaza, numerous bus stops, and two MAX light rail lines originating here, the Urban Plaza is the busiest transit hub in Portland. More than 40 percent of all student trips to campus are made by transit.



2 Academic and Student Recreation Center (ASRC)

SW 6TH AND SW MONTGOMERY, IN THE URBAN PLAZA

Built in 2010, the ASRC is LEED® Gold certified and has many sustainable features. Exercise machines use ReRev technology to generate electricity for the building. Toilets flush with rainwater collected from the roof. All of the wood in the building is FSC certified, and the running track and climbing wall are made from recycled materials.

3 BikeHub

SW 6TH AND SW HARRISON

A bicycle repair shop for the PSU Community, the Bike Hub provides tools, resources, and instruction to promote and support bike commuting to campus. With membership at just \$30 a year, the Bike Hub currently serves over 1,500 members. Approximately 13 percent of all students rely on bicycling as their primary way of getting to and from campus.

4 Electric Avenue

SW MONTGOMERY BETWEEN BROADWAY AND 6TH

In 2011, seven electric vehicle (EV) charging stations—including one of the first 30-minute charging stations in the country—along with several outlets for electric bikes were installed at PSU in partnership with Portland General Electric (PGE) and the City of Portland. Visitors pay for parking, but the electricity is free. Oregon has been chosen as a test market for EVs, and drivers in Portland will help inform EV charging technologies around the country.



5 Montgomery Green Street

SW MONTGOMERY BETWEEN BROADWAY AND 6TH

PSU and the City of Portland are transforming Montgomery Street into a green pedestrian corridor that will demonstrate innovative ways of managing stormwater. Bioswales (open ground-level planters) allow rainwater to soak back into the soil and reduce the impact of run-off on the public sewer system. Students worked with PSU's Facilities and Planning department to install a garden next to Electric Avenue that features native plant species and permaculture design.

6 Smith Memorial Student Union

SW BROADWAY AND SW HARRISON

Smith is a hub of student activity and is also home to many sustainability innovations.

Green Screen

Located in the Smith lobby, this interactive dashboard allows visitors to see real-time water and energy use for the building. Additional "green screens" are slated for other buildings on campus to promote carbon awareness and resource stewardship.

Food for Thought Café and Student Green Space

Tucked in the basement of Smith is Food for Thought Café, one of the only student-run, sustainability-focused campus cafés in the nation. The café offers local, organic, vegan, and vegetarian cuisine, and locally-roasted, direct-trade, organic coffee. They also serve food on reusable dishware and compost. In the Greenspace next door, student groups such as the Environmental Club and Take Back the Tap gather to share ideas.

Hydration Stations

Help PSU "Take Back the Tap" by refilling your reusable water bottle at one of more than 20 hydration stations on campus (look for one in the Smith lobby). Initiated by a student campaign, these filtered water stations are helping to reduce plastic waste from disposable water bottles.

Composting Station - Viking Food Court

PSU's commitment to diverting food waste from landfills is exemplified through this creative recycling station. It features a mural painted by a senior capstone class from the art department, which depicts the underground world of soil and organisms that food composting helps nourish.

7 Stott Community Field

SW 10TH AND HALL

It may look like an ordinary turf field, but the Stott Community Recreation Field is made of 150,000 recycled athletic shoes! The shoes were collected in the Nike Reuse-A-Shoe program, which has donated over 120 recycled fields around the world.

8 Epler Hall and Splash Boxes

SW 12TH AND SW MONTGOMERY

Stephen Epler Residence Hall was Portland's first mixed-use LEED® Silver certified building, containing classrooms, offices, and student housing. The building features passive heating and cooling systems and energy efficient lighting. Rainwater flows from the roof to several river-rock filled "splash boxes" in the public plaza, then through channels between the brick pavers to planter boxes that filter the water as it drains into an underground UV-treated storage tank. This tank supplies water

to the building's toilets and irrigation system, reducing the building's need for water by approximately 110,000 gallons each year.

9 Bike Garage with Living Roof

SW 11TH AND SW MONTGOMERY

One of four secure bike parking facilities on campus, the Montgomery Bike Garage was created through a partnership between Metro, the Portland Bureau of Environmental Services, and Portland State. The garage stores up to 75 bikes on two-tiered bike parking racks, and also features a green roof.

10 South Park Blocks

SW PARK AVENUE

The grassy, tree-lined area that bisects the western portion of campus has been a defining feature of Portland's downtown since the mid-nineteenth century. Hundreds of elm, oak, and maple trees line the park blocks, providing shade, absorbing carbon dioxide, and reducing pollutants. Approximately 200 energy efficient street lamps also line the park blocks.

11 PSU ReUse Room

CRAMER HALL ROOM 180, SW MILL AND SW PARK

The PSU ReUse Room is a student volunteer-run store that facilitates the donation and distribution of used office and school supplies. Students, faculty, and staff come to the ReUse Room for free binders, notebooks, folders, and other supplies, helping to reduce waste while saving cash-strapped students money.



12 Lincoln Hall

SW BROADWAY AND SW MILL

In 2011, Lincoln Hall became PSU's first LEED® Platinum certified building. Originally built in 1911, Lincoln Hall is a shining example of greening a building while preserving its historic features. Renovations completed in 2010 include major seismic upgrades, a high-efficiency heating and cooling system, and double-paned energy efficient windows, which were custom-built by Oregon company JELD-WEN to match existing architecture. Plus, the building features a photovoltaic solar array on the roof—providing free energy from the sun.

13 Broadway Cycle Track

SW BROADWAY AND MILL

PSU's in-road bike lanes help separate cyclists from auto traffic. Along Broadway, a "cycle track" provides even more separation by locating the bike lane between parked cars and the sidewalk. Green "bike boxes" give cyclists a visible and safe location to wait at intersections. In 2011, PSU received a Bike Friendly University rating of Silver from the League of American Bicyclists.

14 Planned Oregon Sustainability Center (OSC)

SW 4TH AND SW HARRISON

The tallest *living* building in the world is planned for this location in the heart of the SoMa EcoDistrict. When complete, the OSC will meet the Cascadia Region Green Building Council's Living Building Challenge to surpass all existing green building certifications and be completely carbon-neutral. The OSC will collect and reuse all of its own water, generate all of its own energy, process all of its own waste, and serve as a collaborative hub for government, academic, and private sector innovation.

This tour brought to you by:

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