We’re all in this together

PORTLAND COMMUNITY COLLEGE
FACILITIES MANAGEMENT SERVICES & SUSTAINABILITY
PCC Sustainability Video

https://www.youtube.com/watch?t=1&v=XquchNiyUDM
Background

We are big!
• PCC has nearly 90,000 students and around 5,000 employees
• 4 campuses and 6 centers in Portland region
• 2.6 million square feet

Sustainability is at our core
• Core theme of college mission
• Strategic planning

President signed onto ACUPCC in 2006
• Formed Sustainability Leadership Council & Sustainability & Curriculum Council
• Began GHG inventorying

Students developed The Green Initiative Fund in 2008

Completed two Climate Action Plans: 2009 & 2013
Climate Action Plan

PCC’s Climate Action Plan is the college’s guiding document on sustainability.

Outlines GHG targets and other sustainability goals.

Reduce emissions from 2006 levels:

- 40% by 2030; and
- 80% by 2050

Highlights achievements & plans to meet future goals:

- Scope I – Natural Gas & Stationary Fuels
- Scope II - Electricity
- Scope III a - Transportation
- Scope III b – Consumption & Waste
- Outreach
- Education
Administration

Sustainability Manager housed within FMS
  • Responsible for integrating sustainability into all practices

Sustainability Leadership Council
  • FMS Director is co-chair
  • Sustainability Manager helps facilitate
  • Spearheads Climate Action Plan & sustainability initiatives

Practice what we preach
  • FMS District office is Green Office Certified at the Gold level
  • Sustainability in FMS Strategic Plan
LEED Buildings

LEED Silver minimum requirement
- Bond team strives for LEED Gold

Provides sustainable infrastructure

Downtown Center: LEED Gold

Willow Creek Center: LEED Platinum

Newberg Center: LEED Platinum & NET ZERO

RC Bldg 7 addition - LEED Gold

Current building projects all anticipate LEED Gold
Energy

Strategic Energy Management program – Rock Creek campus
- Identified mechanical & operational improvements
- Focus on engaging and educating building occupants

Solar
- 500 kW system- RC
- 100 kW system- Newberg
- 106 kW system- WC

Continual retrofits/upgrades
- 45% decrease in EUI
  - Condensed natural boilers & utility loop upgrades
  - LED upgrades
- Over $820,000 in incentives from ETO

New Energy Revolving Fund!
Waste & Consumption Reduction

Solid waste contributes to less than 1% of college’s footprint
- Recycling
- Composting
- E-waste collection

Infrastructure that reduces consumption
- Hand dryers
- Water fill stations
- Lotus Pro

Sustainable Purchasing
- Sustainability criteria in RFPs
- Recycled content paper products
- Green Seal and Eco Logo products
- Members of Sustainable Purchasing Council & Healthy Purchasing Coalition
Custodial

Green Cleaning policy developed for LEED buildings
- Extending to all campuses

Lotus Pro now used throughout district
- Aqueous ozone replaces general cleaner
- Utilizes tap water
- Saves over 170 gallons of general cleaner annually

Recycled content in all paper products
Reducing Inputs in Grounds

IPM- process for achieving long-term, environmentally sound pest suppression through a wide variety of tactics.

◦ Natives for ground cover
  • Mulching for weed suppression
  • Burning & hand-pulling weeds
  • Pesticides are last resort
  • 70% reduction in chemicals

50% reduction in fertilizer applications
  • Emphasis on natives & drought-resistant
  • Liming with humic acids
  • Wildflower & pollinator habitats

ET-based irrigation systems
Recycling Yard Debris

Yard debris recycled for mulch & compost on-site
Storm Water Management

CLIMB Center - Noted “2013 Top Storm Water & Erosion Control Projects”
- Green roof
- Rain garden
- Storm water education plaza

Bio swales & detention ponds
Permeable pavers
Buffer zones
Hands-on Learning

FMS contributes to student learning

- Learning gardens
- Composting
- Beekeeping
- Plant identification
- Water quality studies
- GIS & mapping
- Design
- HVAC training
- Mentorship to trades
- Work study positions
- Project management for TGIF
Staff Training & Education

- LEED Certification training
- Integrated Pest Management training
- Irrigation Design & Water Conservation Classes
- Building Operators Certification
- Vendor trainings
- Conferences
- Professional Development
Encouraging Behavior Change

Occupant engagement on energy consumption
- Education
- Energy challenges
- Prompts

Mini trash cans & centralized waste
- Staff responsible for waste
- Smaller cans promote less waste

Green Office Program
- Certification program & resources

Recycling & waste education
- Sorting games & signage
Thank you!

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