

We're all in this together



PORTLAND COMMUNITY COLLEGE

SUSTAINABILITY UPDATE 2015

BRIAR SCHOON, SANDRA FOWLER-HILL & KEITH GREGORY

www.pcc.edu/sustain



Sustainability Leadership Council

SLC Co-Chairs: Sandra Fowler-Hill & Keith Gregory

Scope I – Natural Gas & Stationary Fuels

- Chair: Laura Ward

Scope II – Electricity

- Chair: Laura Ward

Scope III a – Transportation

- Chair: Mark Gorman

Scope III b – Consumption & Waste

- Chair: Briar Schoon

Outreach

- Chair: Margo Wagner

Education

- Chair: Heidi Sickert



Climate Action Plan

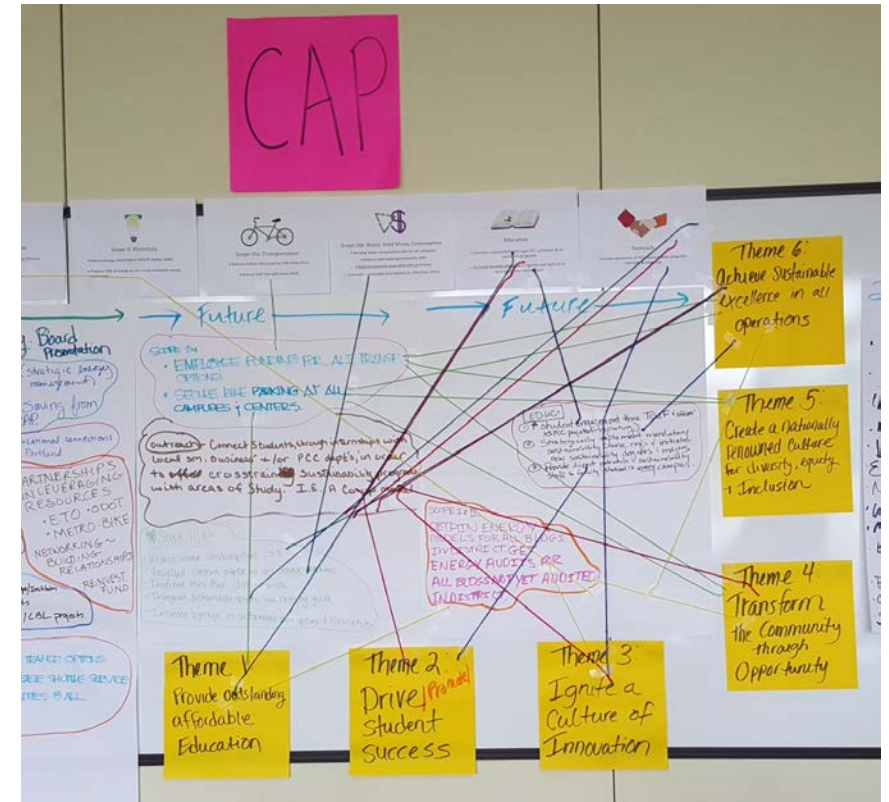
PCC's Climate Action Plan is the college's guiding document on sustainability

Highlights achievements & plans to meet future goals

Reduce emissions from 2006 levels:

- 10% by 2012
- 40% by 2030; and
- 80% by 2050

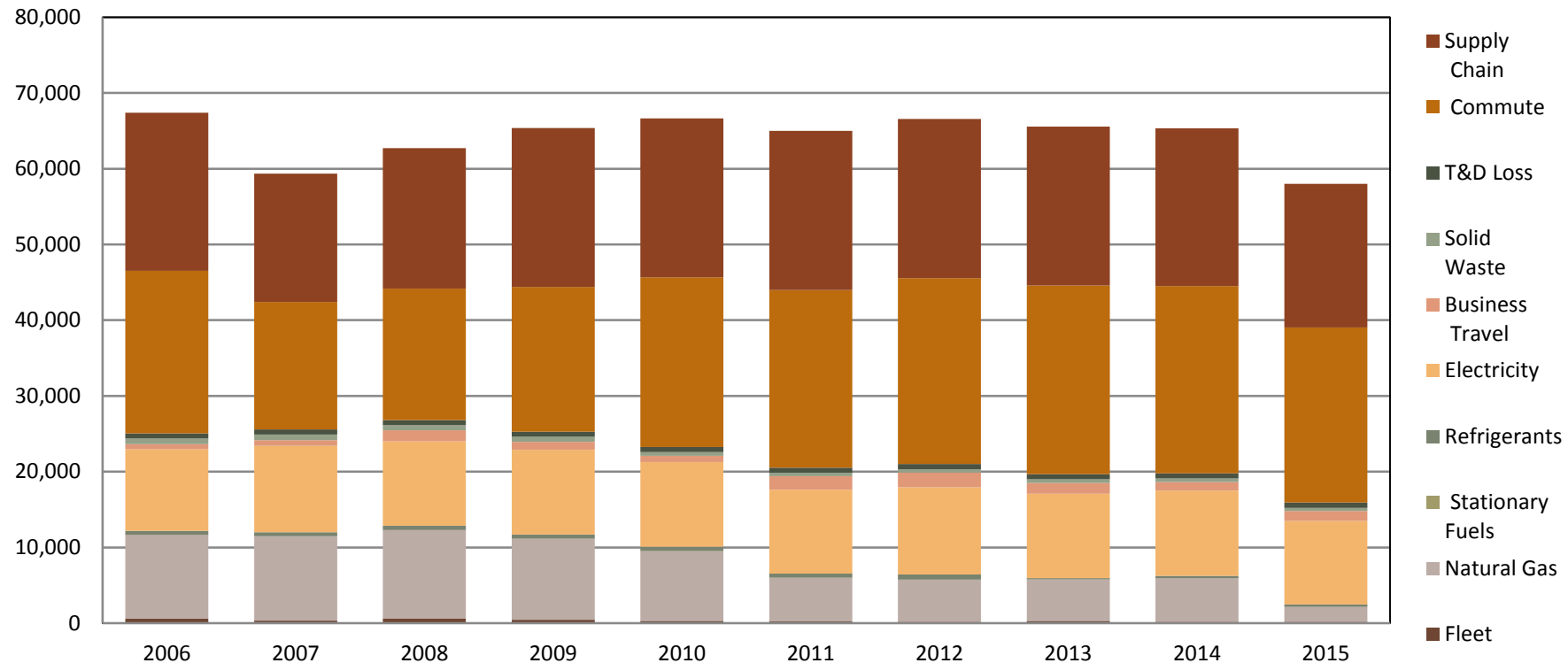
Strategic Plan Connections



Greenhouse Gas Emissions Update

We have reduced total emissions 7% since 2006

GHG Inventory - MT CO₂e by Year



Scope I & II (Energy) Accomplishments

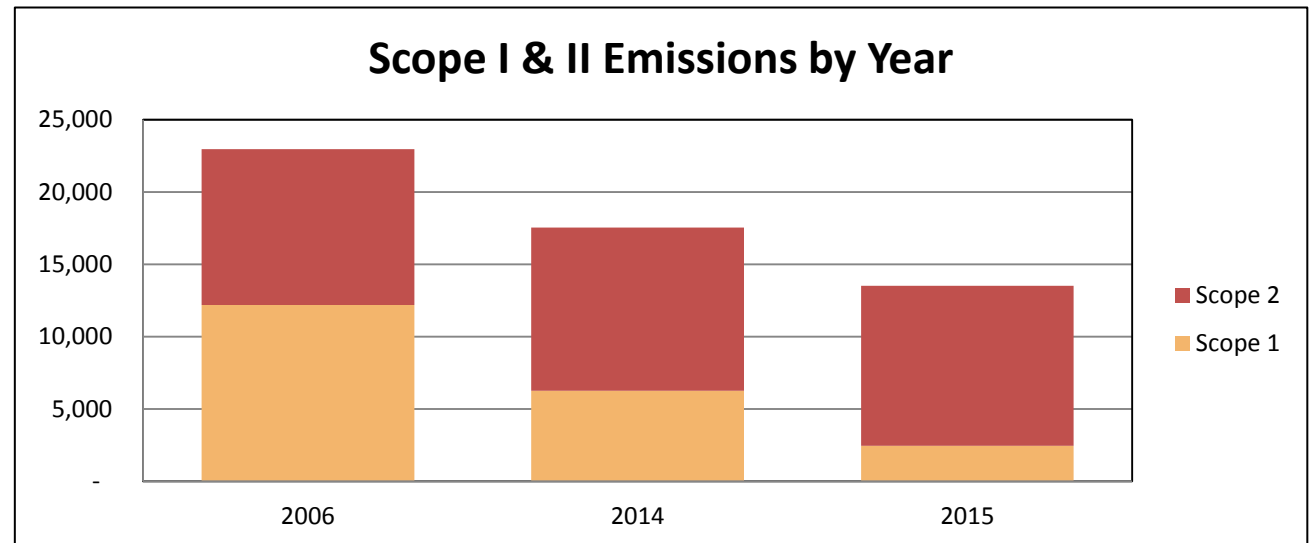
65% reduction in energy use per square foot since 2006

35% reduction since FY14

- Control upgrades & lighting retrofits

Over \$820,000 incentives received and/or anticipated from the Energy Trust of Oregon to-date

New Energy Revolving Fund



Scope I & II (Energy) Accomplishments

Strategic Energy Management program – Rock Creek campus

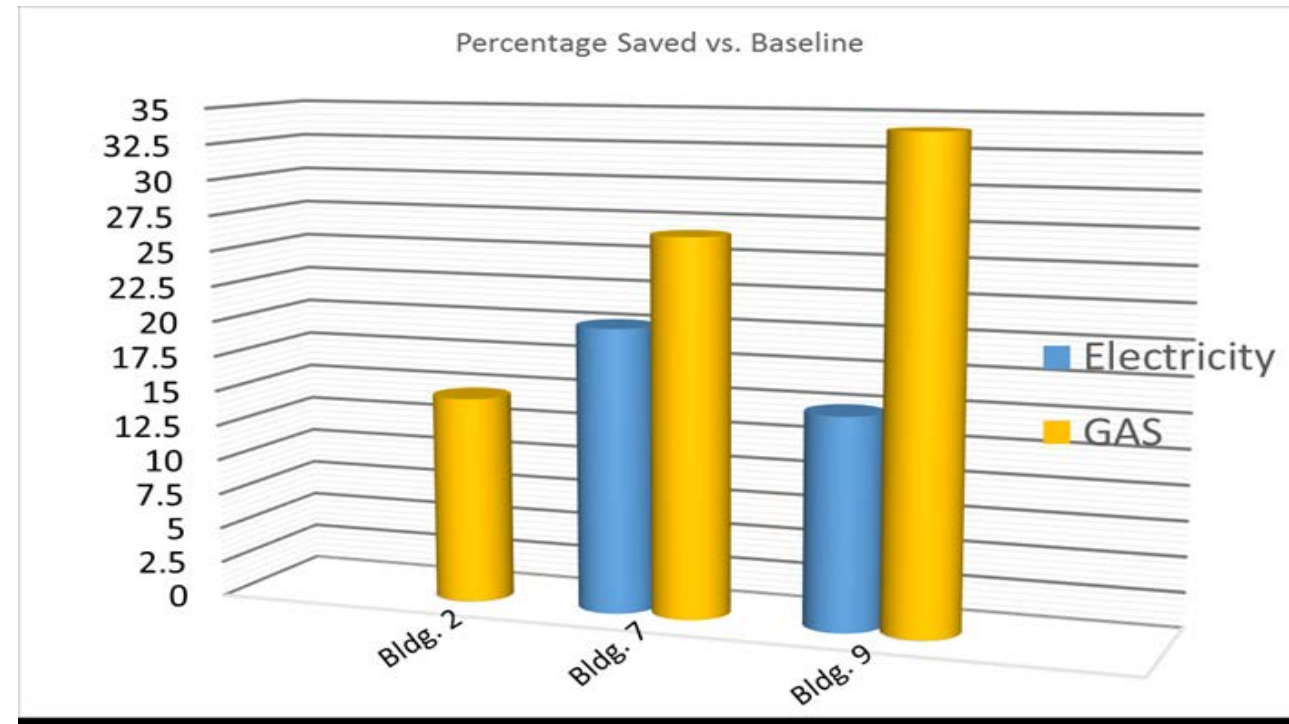
- Mechanical & operational improvements
- Educating building occupants
- Developed energy management commitment

Savings for Bldgs 2,7&9

- 403, 315 kWh
- 34,884 therms
- Savings range from 15%-34%

Total Projected \$ savings-

- \$56,335/yr in energy bills
- \$19,700 in ETO Incentives



Scope IIIa (Transportation) Accomplishments

Received Metro Active Transportation Grant

New electric vehicle charging stations

Continued emphasis on alternative transportation

- Half of staff, students & faculty use more sustainable modes of transit
- Reduction in commute emissions 6% from FY14



Scope IIIb (Waste & Consumption) Accomplishments

Purchasing

- Sustainability in RFP
- Sustainable Purchasing Leadership Council & Healthy Purchasing Coalition

Green Cleaning & Integrated Pest Management

- Lotus Pro saves over 170 gallons of cleaner annually
- 70% reduction in Grounds chemical use!

New Waste Reduction Efforts

- Post-Consumer Composting at SY
- Educational Campaigns
- Mini Max & Centralized Waste Collection (Pilot)
- Partner with Total Reclaim for E-Waste Recycling



Education

Sustainability Across the Curriculum training

“Seven Green Outcomes” for development of sustainability-related courses

7 Sustainability Focus Awardees

Increased hands-on sustainability learning

- Learning gardens
- Composting
- Beekeeping
- Plant identification
- Water quality studies
- GIS & mapping
- Design



Outreach & Impact

Co-host for major sustainability conferences

- The Association for the Advancement of Sustainability in Higher Ed annual conference
- Upcoming Oregon Higher Ed Sustainability Conference

Earth Week 2015 – biggest to-date!

Eco Challenge 2015- **141 challengers gaining 7,620 points**

- Saved 1,892 gallons of water
- Saved 1,105 lbs of CO2

Green Teams & Green Office Certification

Marketing efforts

- New “look”
- Updated website
- New outreach video



Outreach & Impact

Greater Portland Sustainability Education Network

- New Partner Model
- New website: gpsen.org
- Growing regional college and youth networks
- International award for Hands On Greater Portland E6 TeamWorks Team
- Aligning efforts with city, regional, national, and international initiatives



**GREATER PORTLAND
SUSTAINABILITY EDUCATION NETWORK**

A Regional Centre of Expertise on Education for Sustainable Development

Student Initiatives

The Green Initiative Fund provided funding for:

- Learning Gardens
- Composting
- Waterfill Stations
- Bike Rental Programs
- OZZI Machine
- Cob Oven
- Many others

District Student Council

- Passed Sustainable Purchasing Policy
- Sustainable Event Guide



Recognition & Alignment

PCC Sustainability has received national recognition more than once!

Strategic alignment

- Greater Portland Sustainability Education Network/ United Nations
- Higher Ed Sustainability Initiative
- Second Nature
- Campus Climate Commitment
- Sustainable & Healthy Purchasing Councils



Portland Community College

[STARS Silver](#) - Version 1.2 - September 23, 2013

Institutional Characteristics:

Location: Portland, Oregon (U.S.)

Institution Type: Associate

Enrollment: 34,000

Endowment: \$4 million

Institution Control: Public

Athletic Conference: Northwest Athletic Assoc. of Community Colleges



Best Practice:

Portland Community College's STARS rating improved from Bronze in 2012 to Silver in 2013, with significant progress made in air and climate initiatives. The college's most recent greenhouse gas emissions inventory details out the impact of supply chain emissions - a methodology that has not been used by any other community college to date ([OP 4](#), [President's letter](#)).



Portland Community College is committed to sustainability and greening its supply chain.

Upcoming Areas of Focus & Initiatives

Waste Education & Behavior Change

Recycled Content Paper

Sustainability in Catering

Replicating SEM efforts

Active Transportation Grant implementation

Increasing sustainability class & staff capacity



PCC Climate Action Plan Update — December 2015



GHG Savings

Since 2006, Portland Community College has reduced total greenhouse gas emissions by 7%.



Energy Consumption

Efficiency and conservation efforts for the college have resulted in a 65% reduction in energy use per square foot since 2006.



Solar

Three solar systems have produced over 3 million kwh of electricity, diverting over 1,200 tons of CO₂ from entering the atmosphere.



Green Building

PCC hosts green building efforts including: 10 LEED projects, a net zero building, advanced storm water systems, and a green roof.



Compost & Recycling

With over 150,000 lbs composted and 1.5 million lbs recycled since 2012, solid waste now contributes to less than 1% of PCC's greenhouse gas footprint.



Water

Water-fill stations throughout the district have diverted over 2 million water bottles from the landfill.



Learning Gardens

The college has two active learning gardens and two in development, which harvested over 10,000 lbs of produce and clocked 2,300 volunteer hours during the 2014-15 academic year alone.

Transportation

With alternative transportation options including inter-campus shuttles and bike rental programs, half of our students, faculty, and staff use more sustainable modes to get to PCC.



Operations

Green cleaning and integrated pest management efforts have resulted in over 70% reduction in chemical purchases within FMS.



Dining Services

Over 32% of Food Services' food purchases have sustainable attributes, including: local, organic, fair trade, and vegan/vegetarian-friendly.



TGIF Projects

Over \$700,000 spent on student-funded sustainability projects through The Green Initiative Fund.



Sustainability Courses

The college now has over 100 courses with a focus on sustainability or environmental topics.



STARS Ranking

PCC reports to the Sustainability Tracking, Assessment & Rating System and currently has a STARS Silver rating.



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pcc.edu/sustain



**Portland
Community
College**

New PCC Sustainability Video

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

