Portland Community College
Climate Action Plan
Annual Update

January 24, 2014
Sustainability Background

- 2006: Board passes Sustainable Use of Resources Policy B-707
- 2006: President signs ACUPCC
- 2006: College completes first GHG inventory to establish baseline
- 2009: President signs Climate Action Plan
- 2010: President convenes Sustainable Practices, Academics and Resources Council (SPARC)
- 2010: College hires permanent Sustainability Manager
- 2010: College hires Energy Manager
Sustainability Background Cont.

- 2012: College completes third GHG inventory, comprehensive and retrospective including supply chain emissions
- 2012: College completes first STARS report
- 2013: President signs updated Climate Action Plan
- 2013: College approves Sustainability Focus Award, a student completion award
- 2013: College completes fourth GHG inventory and second STARS report
- 2013: College appointed to national Sustainable Purchasing Leadership Council
PCC Greenhouse Gas Emissions Reduction Goals

- Reduce emissions from 2006 levels:
  - 10% by 2012;
  - 40% by 2030; and
  - 80% by 2050.
GHG Inventory: 2006 vs. 2013
GHG with Bond Removed
GHG Inventory Notables

- Scope I emissions decreased by over 50% since 2006.

- Scope II has decreased by 0.6%, with a 20% increase in square footage and a 40% increased in enrollment.

- Scope III emissions have increased since 2006, this can be attributed to an increase in enrollment.
GHG Notables, continued

- In 2006, PCC produced 2.59 MTCO2e per FTE; and
  - PCC also produced 0.03 MTCO2e per square foot.

- In 2013, PCC produced 1.60 MTCO2e per FTE; and
  - PCC also produced 0.026 MTCO2e per square foot.
PCC Sustainability Council Committee Structure

PCC Sustainability Council

Scope I
Scope II
Scope IIIa
Scope IIIb
Sustainability in Education
Community Outreach
Focus of Committees

- **Scope I:**
  - Natural gas, district fleet, refrigerants and stationary fuels

- **Scope II:**
  - Purchased electricity

- **Scope IIIa:**
  - Air travel and commuting
Focus of Committees Cont.

- **Scope IIIb:**
  - Supply Chain and Solid Waste

- **Sustainability in Education:**
  - Education-specific committee

- **Community Outreach:**
  - Outreach-specific committee
Accomplishments and Action Items: Scope I

 Scope I Accomplishments:
   Installation of new boilers and upgrading the campus hot water loop at Sylvania campus, resulting in an emissions reduction of 52.8%; and
   Employed a number of strategies to reduce energy requirements of the Sylvania pool.

 2016 Action Items:
   Retro-commission energy management control systems to achieve tighter control parameters, resulting in a decrease in energy use; and
   Continue a minimum of LEED Silver standards for all Bond construction.
In 2012, FMS oversaw installation of a new boiler system at our Sylvania campus. This resulted in an over 50% reduction in Scope I emissions.
Sylvania Pool Energy Strategies
Accomplishments and Action Items: Scope II

Scope II Accomplishments:

- Retrofit existing fixtures to more energy efficient technology, including some LED lighting and occupancy sensors; and
- Installation of a 500kW solar array at the Rock Creek campus, fulfilling the required 1.5% construction dollars to renewable energy, in partnership with Newberg and Willow Creek centers.

2016 Action Items:

- Reduce electrical use by upgrading lighting to energy efficient types suited for the application;
- Any new appliance purchased will be Energy Star certified; and
- Increasing focus on scheduling efficiencies and behavioral changes.
Retrofitted Lighting Fixtures
Rock Creek and Willow Creek Solar Arrays
Accomplishments and Action Items: Scope IIIa

- Scope IIIa Accomplishments:
  - Increased shuttle routes, low-emission buses and ridership; and
  - Hired Transportation Demand Management Coordinator.

- 2016 Action Items
  - Increase student shuttle ridership to 8.5%; and
  - Increase shuttle connectivity to transit centers.
Accomplishments and Action Items: Scope IIIb

- **Scope IIIb Accomplishments:**
  - Installation of hand dryers district-wide, resulting in a 61% decrease in paper towel consumption; and
  - Serving on Founders Circle of national-level Sustainable Purchasing Leadership Council.

- **2016 Action Items:**
  - Reduce college resource utilization by implementing PCC’s Sustainable Purchasing Policy; and
  - Develop a labeling system for vegan and vegetarian options within all Food Services operations.
Accomplishments and Action Items from Community Outreach

- **Community Outreach Accomplishments:**
  - Participated in local, regional, state, national and international conferences; and
  - Helped to promote E-cycle drive, Recyclemania and Bike to Work Week, amongst other events.

- **2016 Action Items:**
  - Provide engaging forums for the PCC community to share ideas, resources and news about sustainability at PCC; and
  - Develop an annual marketing plan and budget proposal for promoting PCC sustainability.
SPARC Accomplishments

- Established “Seven Green Outcomes” to be incorporated into current and newly developed courses;
- Developed a method to tag green courses in the PCC catalogue;
- Initiated Sustainability Focus Award; and
- Launched a leading model for sustainability curriculum development training, based on the Piedmont/Ponderosa Project.
SPARC 2016 Action Items

- Implement “Seven Green Outcomes” into current and newly developed courses;
- Grant first Sustainability Focus Awards to students spring term 2014;
- Provide annual curriculum development trainings for faculty; and
- Develop Living Labs on campuses.
In June 2012, PCC completed its first submission to AASHE’s STARS program.
- Were awarded a Bronze-level certification, with our highest scoring internal department being Auxiliary Services.

In September 2013, PCC completed its second submission to STARS.
- Received a Silver-level certification. Highest scoring internal departments were FMS, Curriculum and Affirmative Action.

Our aspirational goal is to receive a gold-level STARS submission by 2016.
Student-Led Initiatives

- Student Leadership has served on the PSC, campus-based Green Teams and Bond-planning teams.

- In 2009, Student Leadership established the Green Initiative Fund (TGIF).

- TGIF has inspired district-wide change, including:
  - Learning Gardens;
  - Bottle Fill Stations;
  - Bike Rental Program;
  - Refillable dry erase markers; and
  - Village Building Convergence green-building projects.

- In 2014, the District Student Council formed the first Sustainable Purchasing Committee, to create policies and procedures for the DSC.
National and International Leadership

- Sustainable Purchasing Leadership Council;

- Presentations at OHESC, AASHE, CHESC, SCUP, Smart and Sustainable Campuses conferences, UN Rio+20 Earth Summit, and WAHESC, amongst others;

- Fellows, Higher Education Associations Sustainability Consortium (HEASC) and U.S. Partnership for ESD; and

United Nations Regional Center of Expertise (RCE) Greater Portland
GOALS
Increase individual and collective impact by developing regional cross-sector partnerships, leveraging resources, and improving efficiencies, through:

- Shared governance
- Collaboration
- Transformative education projects
- Research and development
- Outreach

OUTCOMES
- Greater visibility for PCC sustainability education
- Internships for students
- Faculty & staff opportunities
- Connecting PCC at national and international scales
Questions and Thank You

- Dr. Linda Gerber
  - Sylvania Campus President, PSC Co-Chair
- Keith Gregory
  - FMS Interim Director, PSC Co-Chair
- Dr. Kim Smith
  - Sociology Professor, RCE Coordinator
- Erin Stanforth
  - District Sustainability Manager