



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

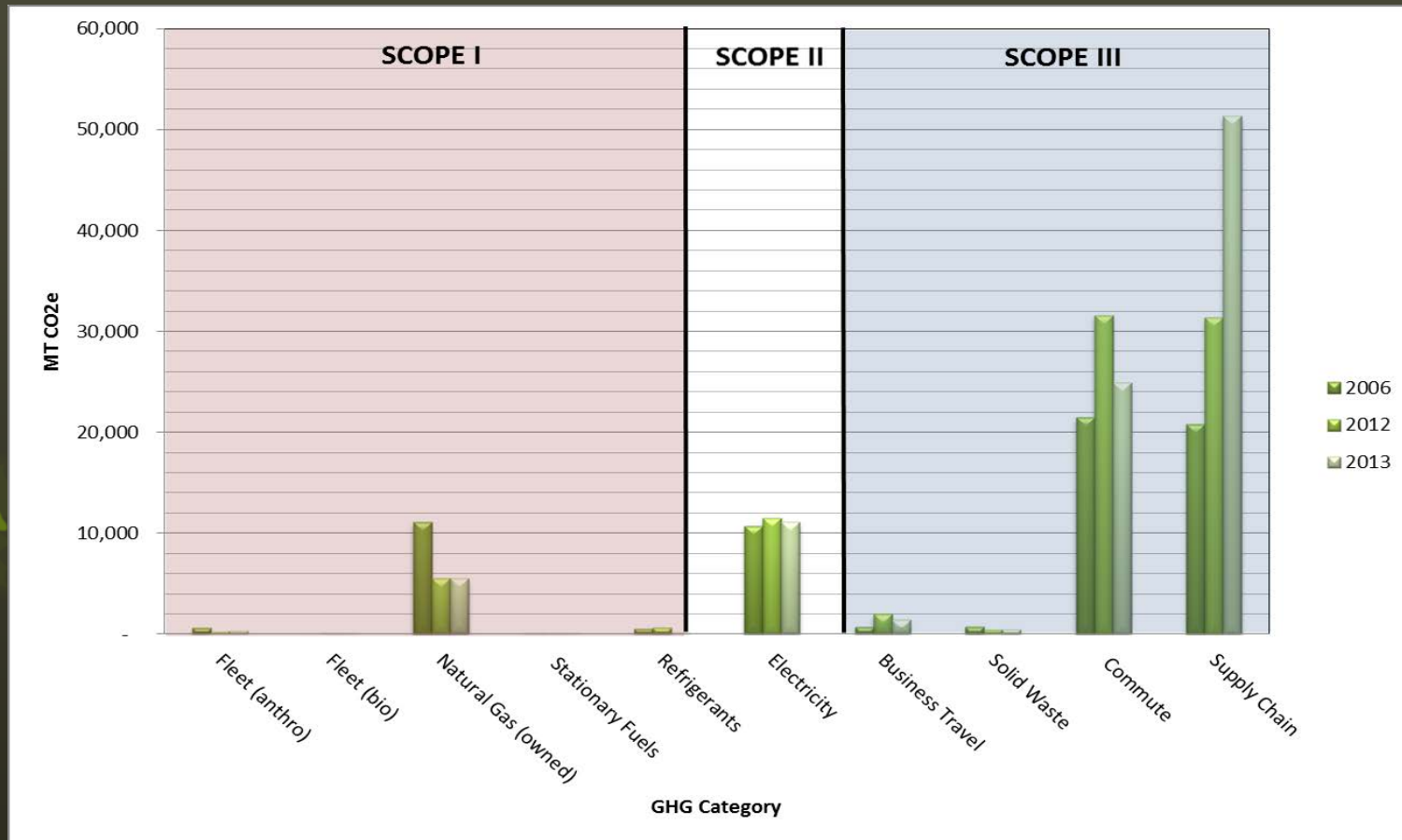
Sustainability Background Cont.

- 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

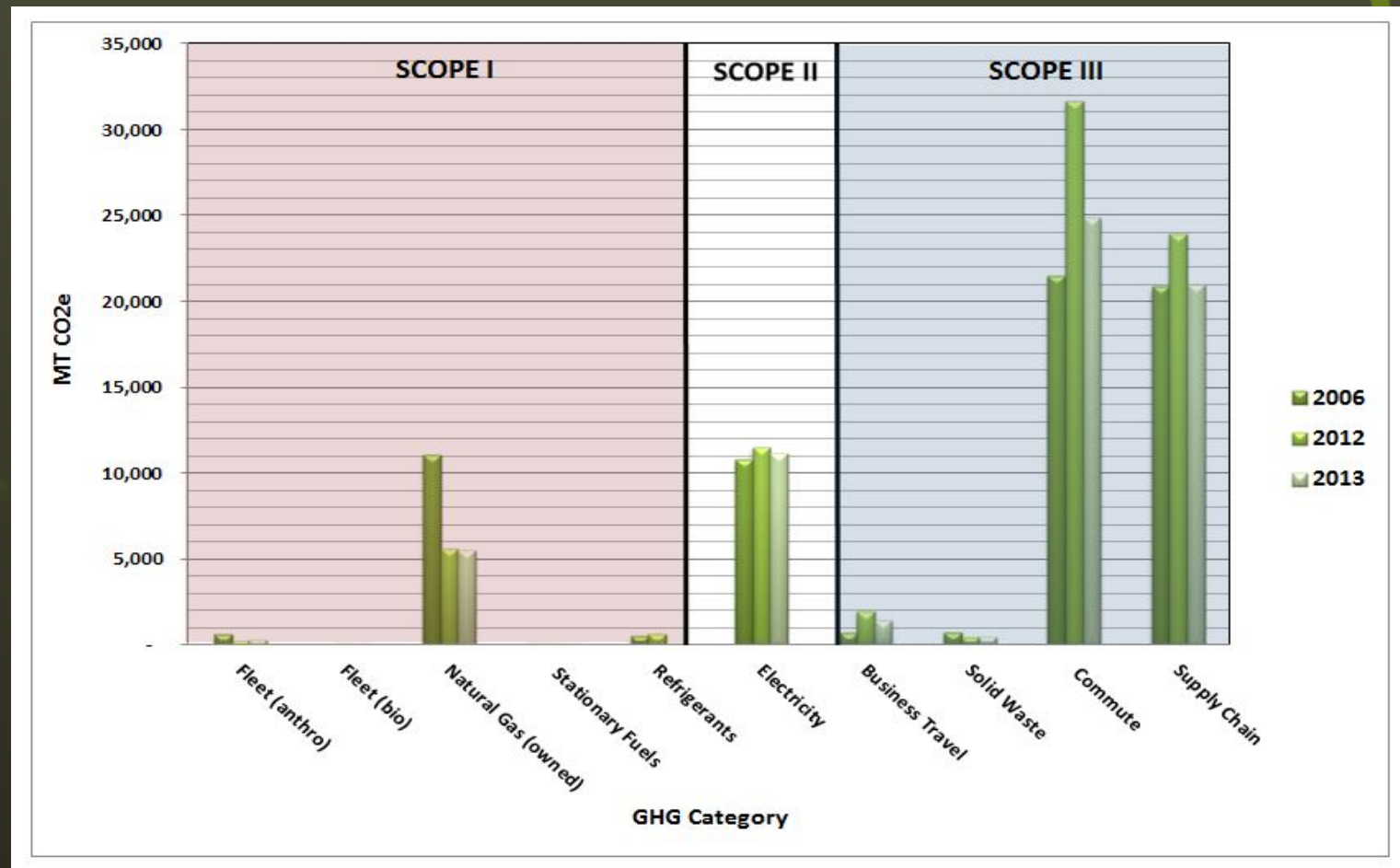
PCC Greenhouse Gas Emissions Reduction Goals

- Reduce emissions from 2006 levels:
 - 10% by 2012;
 - 40% by 2030; and
 - 80% by 2050.

GHG Inventory: 2006 vs. 2013



GHG with Bond Removed



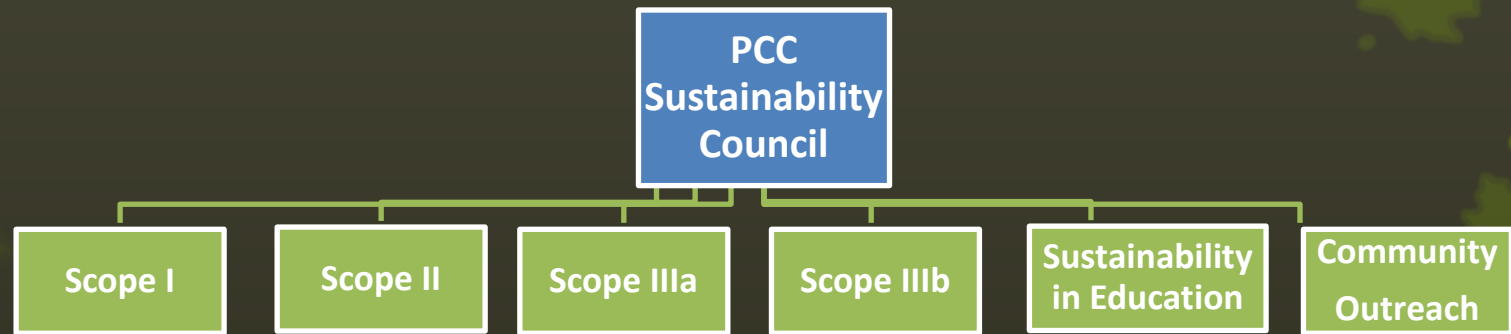
GHG Inventory Notables

- 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



Focus of Committees

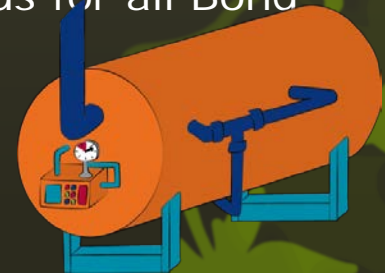
- Scope I:
 - Natural gas, district fleet, refrigerants and stationary fuels
- Scope II:
 - Purchased electricity
- Scope IIIa:
 - Air travel and commuting

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.



Scope I Emissions Reduction



- 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

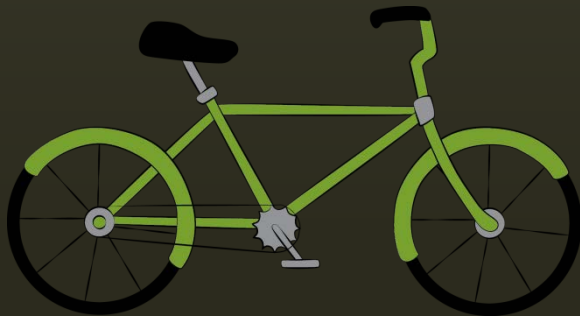


Rock Creek and Willow Creek Solar Arrays



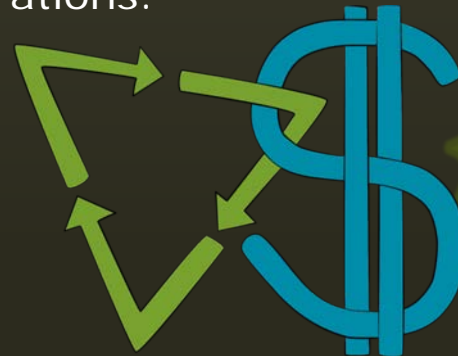
Accomplishments and Action Items: Scope IIIa

- 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.



AASHE Sustainability Tracking and Assessment Rating System (STARS)

- 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
- Included in Princeton Review's Guide to Green Colleges.

United Nations Regional Center of Expertise (RCE) Greater Portland



United Nations Regional Center for Expertise

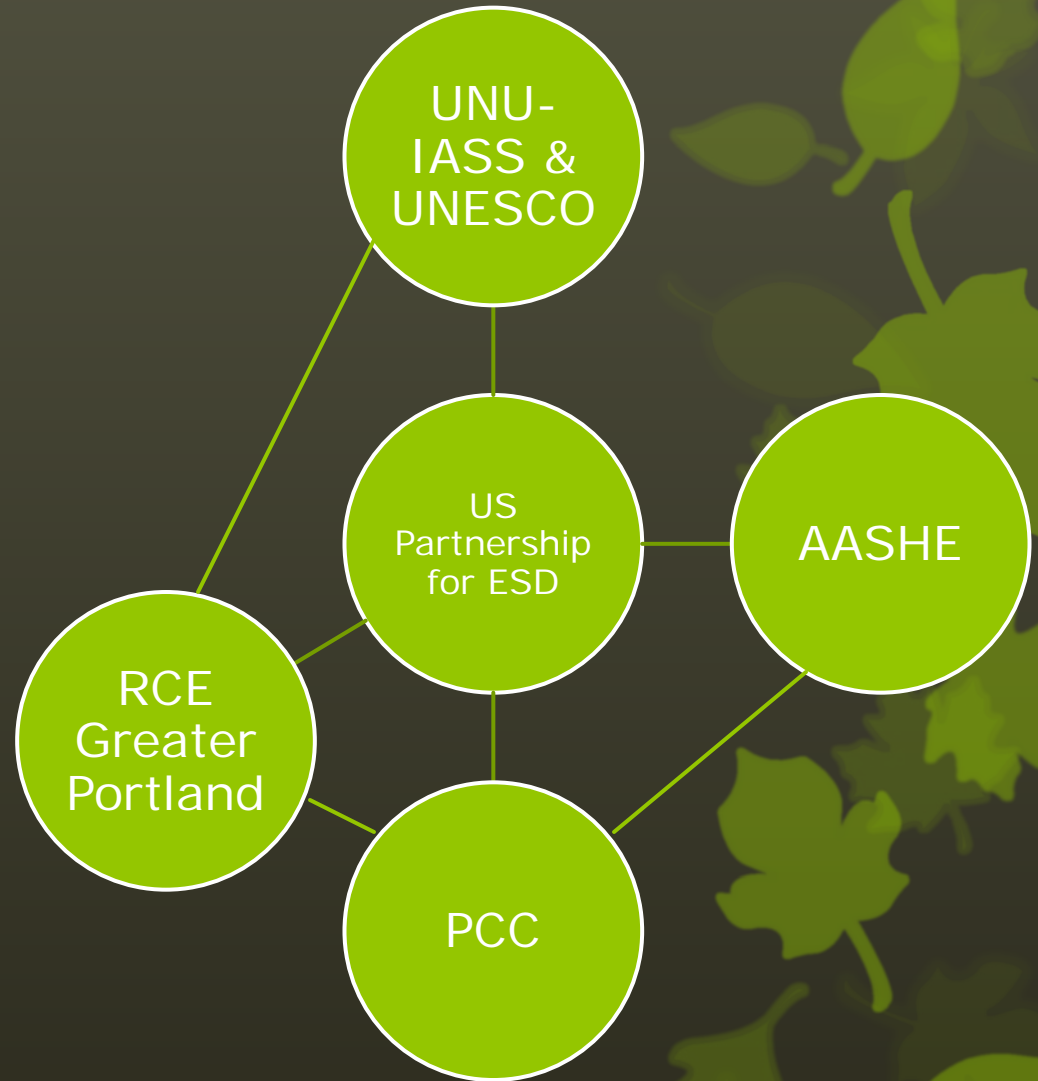
GOALS

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