



# Climate Action



**Portland  
Community  
College**

We're all about  
**your future.**



# About PCC Sylvania Campus

- Largest educational institution in Oregon
- 97,000 students district-wide
- 42% attend Sylvania
- 100 acre campus
- 13 buildings
- Construction between 1966 and 2005
- 757,817 s.f. total conditioned
- 169,739,544 BTUs
- \$1,586,000 energy cost





# Background

- ▣ **2006** PCC Board adopts a sustainability policy

*Portland Community College is committed to becoming a leader in academic programs and operational practices that model the sustainable use of resources so that the needs of current generations are met without impairing the ability of future generations to meet their own needs.*

*Policy B707*



# Background

- ▣ **2007** District President becomes the 290<sup>th</sup> signatory of the ACUPCC
  - § Established a policy that all new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard.
  - § Adopted an energy-efficient appliance purchasing policy which requires the purchase of ENERGY STAR certified products.
  - § Began purchasing part of our institution's electricity from renewable sources with the goal of reaching 15% or more.



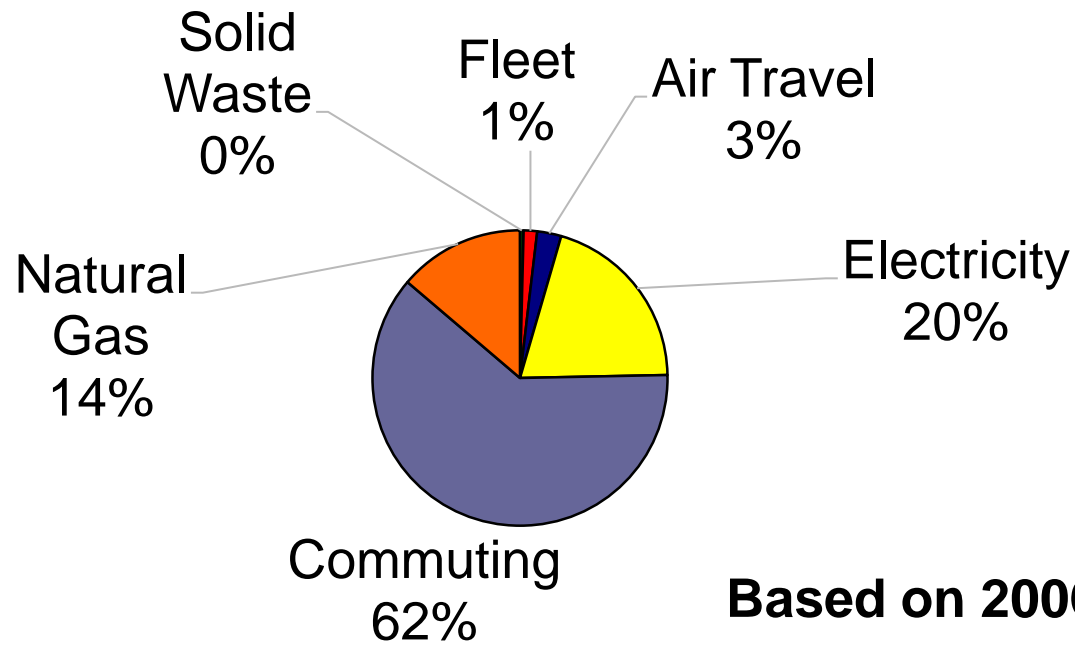
AMERICAN COLLEGE & UNIVERSITY  
PRESIDENTS CLIMATE COMMITMENT



# Background



## PCC Greenhouse Gas Emissions Inventory



**Based on 2006 Data**



# Background



- 2008 District President creates the taskforce to develop **Climate Action Plan** by September 2009



# PCC's Climate Action Plan Greenhouse Gas Reduction Goals

## The Commitment

Reduce our greenhouse gas emissions:

- | 10% below 2006 levels by 2012
- | 40% below 2006 levels by 2030
- | 80% below 2006 levels by 2050.

# PCC's Climate Action Plan 8 Categories

- .. **Buildings and Energy**
- .. Transportation
- .. Consumption and Solid Waste
- .. Food and Agriculture
- .. **Sustainability in Education**
- .. Community Outreach
- .. Tracking Progress
- .. Financing

# Financing Sources



- ARRA funds: State Energy Program (\$1m)
- Oregon stimulus funds
- Energy Trust of Oregon
- Federal grants
- Third party contracting
- Capital projects funds
- Transportation and parking
- College advancement
- Food services
- Curriculum development
- District sustainability coordinator
- College foundation
- Department assessment for air travel offsets
- Campus environmental center
- Campus administration
- Academic departments
- Student activities fund



# Background



- ▣ **2008** Voters approve \$374 million capital bond

# Drilling Down



# E6/NetZero Project Sylvania Campus

Principles to guide decision- making:

*E<sup>1</sup>: Energy Creation*

*E<sup>2</sup>: Energy and Resource Conservation*

*E<sup>3</sup>: Environmental Stewardship*

*E<sup>4</sup>: Employment Stimulus*

*E<sup>5</sup>: Education: Prep for Green Jobs*

*E<sup>6</sup>: Efficient and Effective Use of  
Funds*

# E6/NetZero Sylvania Campus

A detailed plan developed by a team of engineers and architects from Gerding Edlen Sustainable Solutions

Seven scenarios of actions the campus can take to:

- Reduce carbon production from 40% up to 100%
- Reduce cost of energy by up to \$2 million
- Create 1,206 green jobs

# E6/NetZero Sylvania Campus

## A coordinated set of strategies:

- **Combined heat & power:** on-site generator to produce heat and electricity from a single source
- **Controls:** new digital building mgmt system
- **Envelope upgrades:** windows, insulation
- **Heating loop upgrade:** insulation, valves
- **Pool complex upgrades:** dehumidifier
- **Renewable energy:** rooftop solar photovoltaic array

# ClearEdge Fuel Cell



# Seven Leadership Strategies

## Policy and Practice

1. Adopt a Board Policy on sustainability
2. Sign on to ACUPCC
3. Designate a high profile committee to develop plan
4. Create principles to guide decision-making
5. Engage the entire institution planning
6. Engage the professional expertise
7. Prioritize monitoring and publicizing your progress

# The Future is Green



# For More Information

[www.pcc.edu/sustain](http://www.pcc.edu/sustain)

- | American College and University Presidents Climate Commitment
- | PCC Climate Action Plan
- | PCC Carbon Audit
- | The E6 Net Zero Project; PCC Sylvania Campus