

# Lane Community College Climate Action Plan February 2011



## 5 Strategies

Energy Efficiency  
Renewable Energy  
Transportation & Land Use  
Reduced Waste & Purchasing  
Adaptation-Education-  
Habituation

## 61 Actions

Actions we can all  
take to help reach our  
goal

## 1 Goal

Carbon Neutral by  
2050

# What is a climate action plan?

- A climate action plan is a roadmap to guide an organization toward becoming carbon neutral
- Climate action plans include:
  - Greenhouse gas emissions inventory
  - Target dates and goals
    - Become carbon neutral by 2050
    - 30% below 1990 levels by 2024
  - The steps that the organization will take to reach those goals
    - Reduce single occupant vehicle trips
    - Increase the amount of on-site renewable energy

# Why have a climate action plan?

- *“Continued growth of greenhouse gas emissions, for just another decade, practically eliminates the possibility of near-term return of atmospheric composition beneath the tipping level for catastrophic effects.” — [Hansen et al. 2008](#)*
- Cities, colleges, corporations, and other organizations around the globe are preparing plans and implementing strategies to reduce greenhouse gas emissions



# American College and University Presidents Climate Commitment

- A high-visibility effort to address global climate disruption.
- Signed by 676 colleges & universities
- Commitment to become carbon neutral
  - Inventory greenhouse gasses
  - Develop climate action plan
  - Implement plan
  - Annual reporting

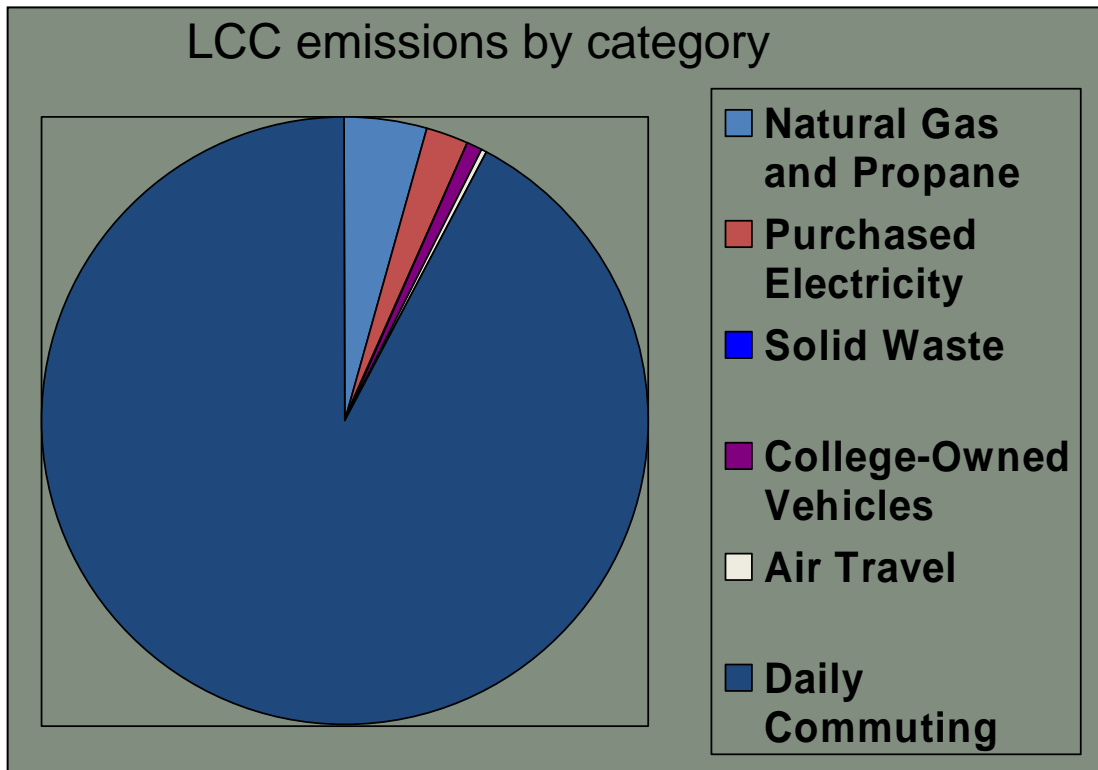


# American College and University Presidents Climate Commitment

- Signed by 16 other colleges & universities in Oregon
  - UO, OIT, SOU, & PCC – carbon neutral by 2050
  - PSU & University of Portland – 2040
  - OSU – 2025
  - Lewis & Clark – 20% reduction by 2018
  - Linfield – no specific date

# Lane Community College Climate Action Plan

- Process
  - Conducted inventory



5% (2775 metric tons CO2e)

2% (1319 metric tons CO2e)

0% (36 metric tons CO2e)

1% (442 metric tons CO2e)

0% (147 metric tons CO2e)

92% (56,935 metric tons CO2e)

TOTAL = 61,521 metric tons CO2e



# Lane Community College Climate Action Plan

- Process (continued)
  - Divided plan into 5 strategy areas & assigned leads to each:
    - Energy Efficiency - Anna Scott & Dave Willis
    - Renewable Energy - Anna Scott
    - Transportation & Land Use - Alen Bahret & Jennifer Hayward
    - Reduced Waste & Purchasing – Mike Sims
    - Adaptation / Education / Habituation – Susie Cousar



# Lane Community College Climate Action Plan

- Process (continued)
  - Developed actions for each strategy area

5 Strategies  
61 Actions

Energy Efficiency – 12 Actions

Renewable Energy – 9 Actions

Transportation & Land Use – 14 Actions

Reduced Waste & Purchasing – 14 Actions

Adaptation / Education / Habituation – 12 Actions





# Lane Community College Climate Action Plan

- Process (continued)
  - Proposed target date of 2050

## **Commitment - 2050**

The sixty-one actions presented in the next section of this document represent many of current and next steps on Lane's road to becoming carbon neutral. More will need to be done. Becoming carbon neutral will require input and effort from every member of our community. We will all need to learn, plan, and act together to achieve this challenging goal that is so critically important to the survival of millions of plants and animals – including humans.



# Lane Community College Climate Action Plan

- Process (continued)
  - Review:
    - Facilities Council (1<sup>st</sup> review: 1/11/11; 2<sup>nd</sup> review: 1/25/11; Approved: 1/31/11)
    - Sustainability Committee (1/13/11)
    - Manager's Forum (1/14/11)
    - College Council (1<sup>st</sup> review: 2/10/11)
    - All governance council meeting (2/24/11)

# Energy Efficiency – 12 Actions

- Projects funded by the Bond and state economic stimulus
  - Health & Wellness Building
  - Building automation system strategic upgrades
  - Temperature set-points
  - Green standards checklist
- Training and education
  - Roof replacements
  - Central plant equipment upgrade
  - Improve building-level utility sub-metering
  - Retro-commissioning Buildings 1 & 19
  - HVAC mechanical system upgrades
  - Continuing to improve lighting and lighting control systems

# Renewable Energy – 9 Actions

- On-site generation – solar electric
  - On-site generation – solar thermal
  - On-site generation – geothermal
  - Carbon neutral energy purchased from utility providers
- Update solar energy master plan
  - On-site generation – main campus (planned)
  - On-site generation – downtown campus (planned)
  - Finish connecting solar electric at Building 24
  - Carbon neutral energy purchased from utility providers (future)

# Transportation & Land Use – 14 Actions

- Reducing emissions from daily commuting (current programs)
- Reducing emissions from fleet (current)
- Forested and wetland properties
- Improve methods for measuring emissions from transportation
- Improve access for bicyclists
- Continue to improve accessibility and convenience of public transit
- Promote and incentivize carpooling
- Improve access for lower-emitting vehicles
- Expand outreach, marketing, & education about climate-friendly transportation alternatives
- Greening the fleet
- Parking fee/financing of climate-friendly transportation
- Integrate the climate action plan with other college plans and policies
- Air travel
- Offsets

# Reduced Waste & Purchasing – 14 Actions

- Composting
  - Surplus property reuse
  - New recycling center
  - Built-in recycling and waste collection in new remodels
  - Energy efficient hand dryers
  - Green purchasing policies
  - Green cleaning chemicals
  - Incentives to reduce paper use and printers
  - Bookstore, library, and student learning center increasing use of electronic media
- Expand surplus property
  - Expand the reusable office supply exchange
  - Provide composting collection stations in more locations
  - Encourage green purchasing practices
  - Develop and implement strategies to reduce the use of common disposables

# Adaptation / Education / Habituation – 12 Actions

- Sustainability degrees
  - Sustainability suggested course of study
  - Sustainability-focused courses
  - Sustainability-infused courses
  - Campus learning laboratory
  - Events and marketing
- Infusion of sustainability across the curriculum
  - Sustainability-focused courses
  - Sustainability education in targeted areas
  - Campus learning laboratory
  - Events and marketing
  - Graduation requirement

# Resources

- College and University Climate Action Plans:
  - American College and University Presidents Climate Commitment: <http://www.presidentsclimatecommitment.org/>
  - Other college and university greenhouse gas inventories and climate action plans: <http://acupcc.aashe.org/>
  - Lane Community College Climate Action Plan: <http://www.lanecc.edu/sustainability/climateactionplan.html>
- Climate science:
  - National Oceanic and Atmospheric Administration Climate Service: <http://www.noaa.gov/climate.html>
  - U.S. Environmental Protection Agency climate change site: <http://www.epa.gov/climatechange/>
  - Intergovernmental Panel on Climate Change: <http://www.ipcc.ch/>