

# FIRST ANNUAL CLIMATE SUMMIT

April 21, 2014



## AMERICAN COLLEGE AND UNIVERSITY PRESIDENTS' CLIMATE COMMITMENT

- Signed by 680 Colleges and Universities
- Commitment to:
  - Develop and implement a plan to become carbon neutral
  - Track greenhouse gas emissions
  - Make climate neutrality and sustainability a part of the curriculum and other educational experience for all students



Lane's President Mary Spilde

#### WHAT IS CARBON NEUTRAL?

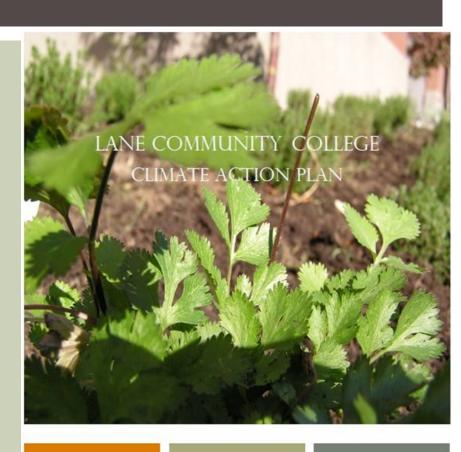
Having no net greenhouse gas (GHG) emissions



### LANE'S COMMITMENT: CARBON NEUTRAL BY 2050

#### 5 Strategies

- Energy Efficiency
- Renewable Energy
- Transportation and Land Use
- Reduced Waste and Purchasing
- Adaptation-Education-Habituation
- 61 Actions
- I Goal: Carbon Neutral by 2050



#### 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

#### WHY CARBON NEUTRAL BY 2050?

■ 2000-2011 was the hottest period on record and included ten of the eleven warmest years with 329 consecutive months having temperatures higher than the 20<sup>th</sup> Century average.



#### WHY CARBON NEUTRAL BY 2050?

#### "Realities of the Environmental Century" [21st]

- 1. The pace of ecological change is *accelerating*.
- 2. Communities, ecosystems and biomes *will change* in fundamental ways.
- 3. Much will be lost. How much depends on what we do now.
- 4. 20<sup>th</sup> century paradigms for conservation are *inappropriate*.
- 5. Because of environmental and resources limitations, *economic* growth will cease sometime this century.
- 6. Adaptation in *food production* must begin now and anticipate change (resilience)."

-Stephen Mulkey, PhD, President, Unity College



#### WHY CARBON NEUTRAL BY 2050?

- Reasonable stretch goal.
- If we all work together, we can do this.





#### WHAT HAVE WE DONE?

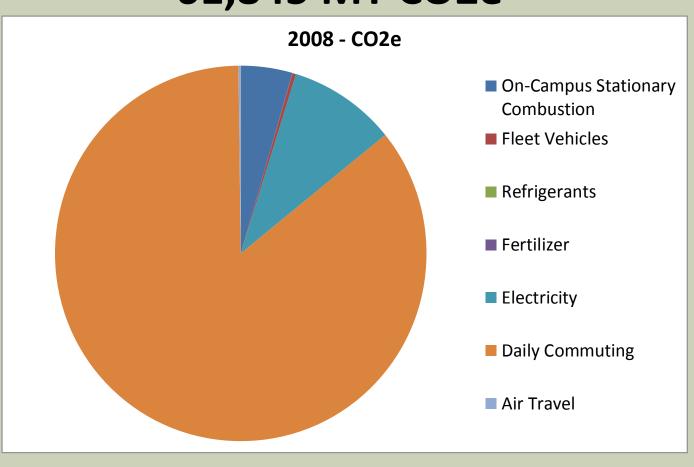
2010 2007 2008 2009 2006 **Adopted Submitted** sustainability Climate core value **Action Plan Committed** to **Inventoried ACUPCC** Signed the Won 9th "tangible greenhouse American place in **Inventoried** actions": gas College and recycling greenhouse emissions University competition participate in gas Presidents' out of 148 emissions recycling **Adopted** Climate colleges competition sustainability Commitment and strategic universities adopt an direction energy-efficient appliance purchasing policy Sustainable

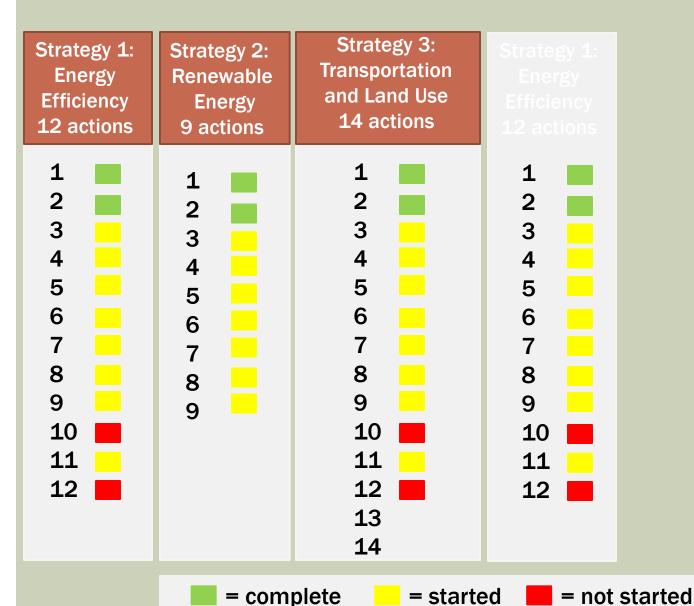
#### WHAT HAVE WE DONE?

2012 2013 2014 2011 **Improving** greenhouse gas emissions inventory **Inventoried Submitted Sustainability** greenhouse gas progress report Committee focusing **Implemented** emissions to ACUPCC on climate action plan **Climate Action** projects Plan strategies **Implemented Implemented Climate Action Climate Action Improving** Climate Plan strategies Plan strategies **Action Plan strategies Educating** students and employees on **Climate Action Plan** 

### GREENHOUSE GAS INVENTORY - 2008

### 61,845 MT CO2e







Strategy 2 - Renewable Energy			
Actions	Complete	Status	
13. On-Site Generation – Solar Electric - 43 kW	X		
14. On-Site Generation – Solar Thermal	X	In repair	
15. On-Site Generation – Geothermal - Buildings 24, 25, 26, 27	X		
16. Purchased Resources - 10% EWEB Greenpower; 25% EPUD Greenpower	X		
17. Update Solar Energy Master Plan		Not started	
18. On-site Generation - Main Campus			
a. Continue with small annual solar installations that are funded by Lane's revolving loan fund.		Not started	
b. Include solar thermal in the upgrade to the main campus central plant. Lane's central plant uses natural gas fired boilers for campus heating water.		Changed to geothermal	
c. Invest funds from business energy tax credits into a solar station for the east parking lot.		Not started	
19. On-site Generation – Downtown Campus	X		
20. Finish Connecting Solar Electric at Building 24	X		
21. Carbon Neutral Energy Purchased from Utility Providers - 25% EWEB Greenpower; 10% Northwest Natural; Develop long term strategy for 100%		Not started	

Institute for **Sustainable** Practices

Strategy 3 - Transportation & Land Use				
	Actions	Complete	Status	
22. eme	Reducing Emissions from Daily Commuting (LTD group bus pass program, rgency ride home, carpool matching, bike parking, solar station)	x	On Going	
23.	Reducing Emissions from Fleet Vehicles	X		
24.	Preserving Forested and Wetland Properties	X	On Going	
25.	Improve Methods for Measuring Emissions from Transportation		In Process	
26.	Improve Access for Bicyclists		Started	
27. Trans	Continue to Improve Accessibility, Convenience, and Sustainability of Public sit		Started	
28.	Carpool		In Process	
29.	Improve Access for Lower-Emitting Vehicles		In Process	
30. Trans	Expand Outreach, Marketing and Education About Climate-Friendly sportation Alternatives		In Process	
31.	Greening the Fleet		Not Started	
32.	Parking Fee/Financing of Climate-Friendly Transportation		Not Started	
33.	Integrate the Climate Action Plan with Other College Plans and Policies		In Process	
34.	Air Travel - Track air miles and promote web-based conferencing		In Planning	
35.	Offsets			
	op a plan for purchasing or documenting offsets that will mitigate remaining emissions from portation.		Not Started	



Strategy 4 - Reduced Waste and Purchasing			
Actions	Complete	Status	
36. Composting	x	On Going	
37. Surplus Property Reuse	X	On Going	
38. New Recycling Center	X		
39. Built-In Recycling and Waste Collection in New Remodels		In Process	
40. Energy Efficient Hand Dryers		In Process	
41. Green Purchasing Policies	X		
42. Green Cleaning Chemicals	X	On Going	
43. Incentives to Reduce Paper Use and Printers		In Process	
44. Bookstore, Library, and Student Learning Center offering more paperless solutions	X	On Going	
45. Expand Surplus Property	Α	Not Started	
46. Expand the Reusable Office Supply Exchange	X		
47. Provide Composting Collection Stations in More Locations	X	On Going	
48. Encourage Green Purchasing Practices	X		
49. Develop and Implement Strategies to Reduce the Use of Common Disposables			
a. Fewer desk top printers in offices. Promote and encourage paperless processes.		In Process	
b. Take Back The Tap	X		



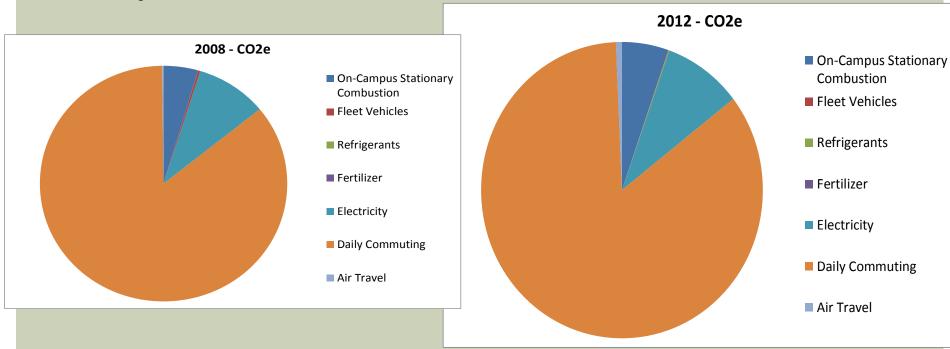
	Adaptation / Education / Habituation				
	Actions	Complete	Status		
50.	Sustainability Degrees	х	On Going		
51.	Sustainability Suggested Course of Study		In Process		
52.	Sustainability-Focused Courses - Develop application	х	On Going		
53.	Sustainability-Infused Courses - Training for 105 Instructors	х			
54.	Campus Learning Laboratory	Х	On Going		
55.	Events and Marketing	X	On Going		
56.	Infusion of Sustainability Across the Curriculum		In Planning		
57.	Sustainability-Focused Courses				
	a. Increase the number of sustainability-focused courses: Develop methods for encouraging faculty to submit applications for sustainability course status.		Not started		
	b. Improve visibility of courses: Designate sustainability-focused courses in print and online catalogues.	X			
58.	Sustainability Education in Targeted Areas		Started		
59.	Campus Learning Laboratory				
	a. Install a solar training lab on the main campus.		Upcoming Bond		
	b. Construct a new downtown campus that acts as an energy efficiency and renewable energy training laboratory.	X			
	c. Improve the use of campus buildings as learning laboratories.				
	o Install a building automation system that students can view online.		In Planning		
	<ul> <li>Install a web-based front end to the building level sub-metering system so that students can view real-time energy use.</li> </ul>		In Planning		
60.	Events and Marketing				
	a. Offer two to four events per year that are open to students, employees, and the community.	Х	On Going		
	b. Improve sustainability website and update it frequently.	Х	On Going		
	c. Hold a one day conference for Lane employees focused on implementing Lane's sustainability strategic direction and climate action plan in 2011.	X			
	d. Utilize a wide variety of communication mechanisms to promote and celebrate sustainable and climate friendly activities.	X	On Going		
61.	Graduation Requirement		Not started		



### **GREENHOUSE GAS INVENTORY - 2012**

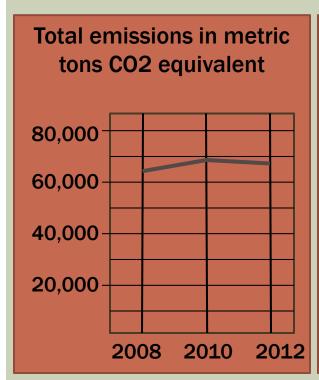
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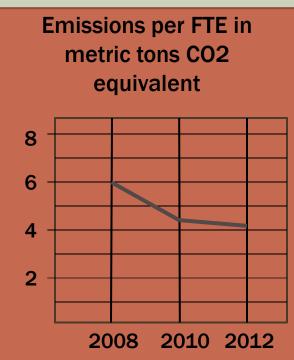
#### 67,811 MT CO2e

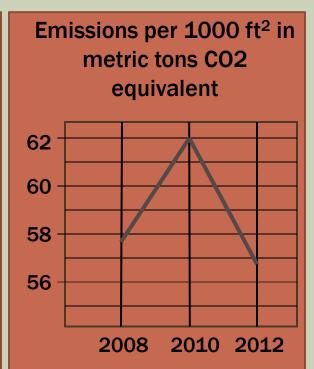


10%

#### **INVENTORY TRENDS**







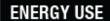


#### WHAT ARE WE DOING? THIS YEAR

- Institute for Sustainable Practices
- Sustainability Committee Focus
- Health and Wellness Fair Healthy Transportation Habits Table
- Central Plant Sustainability Study
- Inventory Process Improvement
- Workshop: Planning for 35% Building Energy Use Reduction.
- Transportation Habits Survey
- Earth Day Focus on Healthy Transportation Habits
- Climate Action and Education Forum
- Outdoor standard for recycling collection
- Weekly, Facebook, Twitter, Torch



## FUTURE - ENERGY EFFICIENCY AND RENEWABLE ENERGY

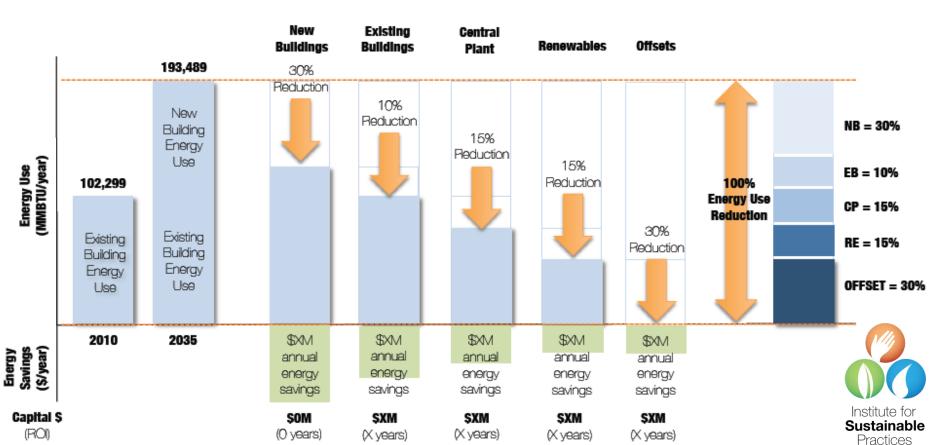


#### **ENERGY USE REDUCTION STRATEGIES**

Energy Use Reduction Benefit by Focus Area

#### OVERALL

Overall Energy Use Reduction Benefit



## FUTURE - TRANSPORTATION AND LAND USE

- Work with City and County agencies to have safe bike/pedestrian lanes installed from Eugene and Springfield to main campus
- LTD rapid transit to main campus
- Restructure transportation demand management program to charge for parking

## FUTURE - REDUCED WASTE AND PURCHASING

- Lane pays \$446/ton for recycling\*
- Lane pays \$747/ton for trash\*
- FY15 Unit Plan requests increased funding for recycling that will result in more material handled more cost effectively
- Sustainability sub-committee drafting sustainable purchasing policy

## FUTURE - EDUCATION/ADAPTATION/HABITUATION

- Professional development for instructors
- Infuse sustainability into 10% of all courses offered
- Graduation requirement
- Community outreach??

### WHAT YOU CAN DO

