

Lane Community College

Climate Action Plan 2.0

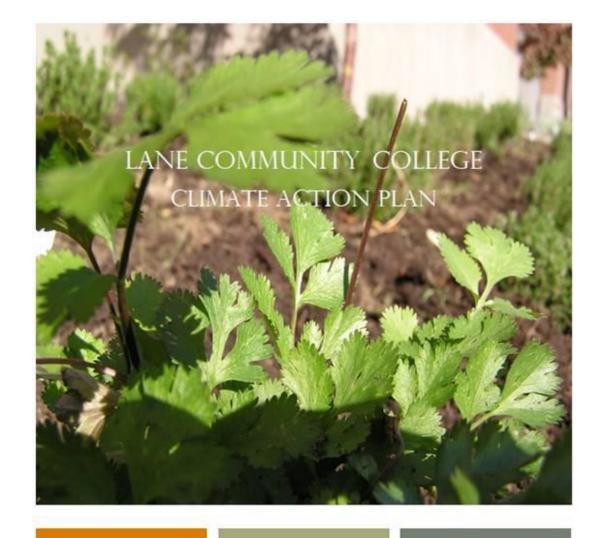
September 13, 2018





Background

- ✓ LCC's first Climate Action Plan (CAP) was approved by the Board of Education in 2011
- ✓CAP strategies were revised and updated in 2014
- ✓LCC committed to updating the CAP every 5 years
- √1 Goal = Carbon Neutrality & Increased Resilience by the year 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



<u>Acknowledgements</u>

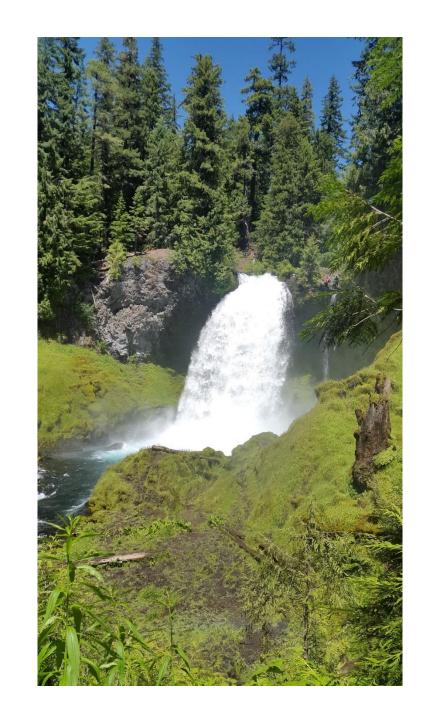
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- Diego Llewellyn-Jones, Learning Garden Specialist
- Sustainability Committee
- Facilities Council



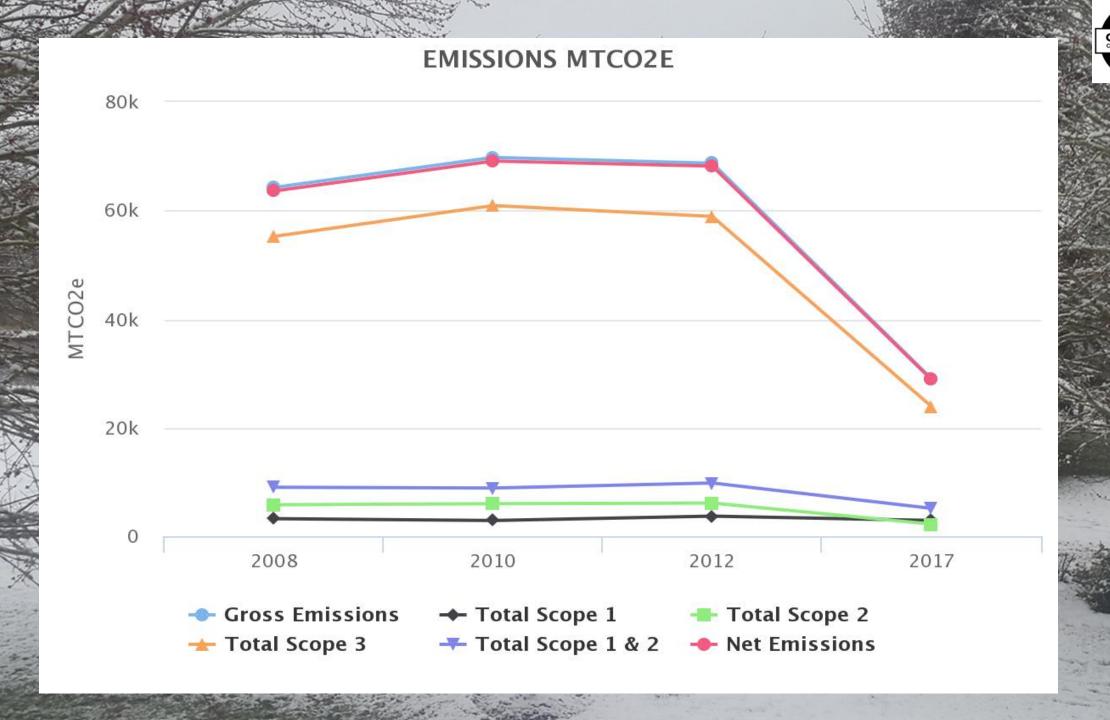


Mitigation Strategies CAP 2.0

- 1. Energy Use Reduction
- 2. Renewable Energy
- 3. Waste & Purchasing
- 4. Transportation
- 5. Agriculture & Land Use
- 6. Adaptation / Habituation / Education



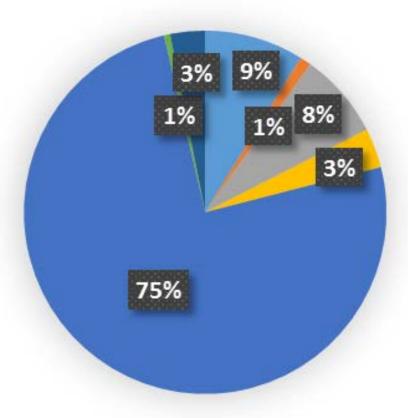








Lane Community College Greenhouse Gas Inventory FY 2017 27,526.61 MTCO2e



- On-Site Combustion
- Vehicle Fleet
- Purchased Electricity
- Air Travel
- Commuting
- T&D Losses
- Waste





Energy Use Reduction

FY 17 Energy Baseline 20 kWh / sq. ft.

	Actions	Objective	Timeline	Resources	Responsible	Result
	Review & adjust occupancy schedule, runtimes and setpoints for each building	Efficient use of College conditioned space and energy resources	2018-2019	Occupancy information / staff time	ISP / FMP	Energy savings
	Develop & implement a Re- Commissioning and Retro- Commissioning plan for the College	Optimal operation of complex building systems	2018-2022	Staff time / Operational budget	FMP / ISP	Energy savings / Extended equipment life
7	Update existing Design and Construction Policy	Adoption of sustainability standards in all of the College's remodels and new construction projects	2018-2019	Staff time	ISP / FMP	Energy savings / Increased occupant comfort
And to test one of the	Develop and implement a plan based on the Facilities Assessment report findings	Prioritizes infrastructure upgrades based on occupants, equipment condition and energy savings	2018-2022	Staff time / Capital Investments	FMP / ISP	A plan that integrates and prioritizes student success, infrastructure reliability and energy savings





Renewable Energy

1% of the College total Energy Consumption

72.	Actions	Objective	Timeline	Resources	Responsible	Result
	Gradual installation of rooftop photovoltaic systems in College buildings, identified with the highest feasibility	Increase the percentage of renewable energy generation	2018-2022	Capital Investments / Lane's Living Green Loan Fund	ISP / FMP	Reduced electricity consumption from the local utility
I	Develop a plan to offset 45% of Lane's energy consumption with renewables by 2050	Supplement energy efficiency efforts to achieve overall carbon neutrality	2018-2022	Capital & operational budgets	ISP / FMP	Reduced Source Energy Consumption and GHG emissions
	Create a plan to install renewable energy systems with storage capacity for each critical system on campus	Resiliency of critical systems	2019-2020	Staff time	ISP / FMP	Reduced Source Energy Consumption





Actions	Objective	Timeline	Resources	Responsible	Result	
Be a constant presence at College in-service and programs	Maintain a constant and updated message about how to get involved with College sustainability and its relevance	2018-2022	Staff time	ISP	A College community that is well educated on sustainability and the actions they can take as individuals	
Increase the number of sustainability-focused courses	Facilitate student success for those interested in sustainability	2018-2022	Staff time	ISP / Different academic departments	Asign designation to sustainability focused courses	
Continue to recruit offices or departments to go through the Green Office Certification Program	Infuse sustainability awarness to all of the College's staff	2018-2022	Staff time / Department's commitment	ISP / Certified Departments	Certify and educate different offices and departments on actions they can take to improve sustainability for the College	
Continue to expand the Sustainability Committee	College cross- collaboration for the advancement of sustainability	2018-2022	Staff time	ISP	A sustainability engaged College community	





1,920 pounds of food & 1,330 student contact hours in FY 17								
Actions Objective		Timeline	Resources	Responsible	Result			
Develop & implement a plan to replace previously landscaped areas with vegetable crops and native edibles.	Increase the presence of vegetated spaces on campus	2019-2022	Operational budget	ISP/ FMP	Increase food production and Promote biodiversity			
Expand the Learning Garden fence to emcompass the greenhouse	Incorporate different agricultural methods to increase the educational experience	2018-2019	Operational budget	ISP/ FMP	More space to grow crops, increased food production			
Work towards assessing multiple forested and wetland plots for their carbon storage offset potential	Obtain a realistic net campus assessment of carbon storage	2018-2022	Student projects and guided research	Science Division / ISP	Reliable carbon storage sequestration data			
Develop a plan to maintain and use forest lands sorrounding the campus	Use the areas as outdoor classrooms	2019-2020	Operational budget	FMP / Science Division / ISP	Expand educational resources			







Waste & Purchasing

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Actions Objective		Timeline	Resources	Responsible	Result		
		Current Ba	aseline 0.44 lb / sq. ft.				
	Maintain and improve the existing recycling program	Guarantee continuous improvement over time. Reduce production of waste at least 25% in the next 5 years	2018-2022	Staff time / operational budget / Lane's Living Green Revolving Fund	ISP / FMP	Maintain a steady waste reduction trend	
	Develop and implement a Sustainable Purshasing Policy for all durable goods and on- going consumables	Reduce or eliminate the environmental harm of materials purchased for college operations	2019-2022	Staff time	ISP / College Finance	Reduce overall college purchases and establish a guideline for sustainable purchases	
	Maintain and improve the existing Surplus Property program	Maintain and increase a steady source of revenue for the College and diversion of materials that otehrwise would be landfilled	2018-2022	Staff time / operational budget	ISP	Revenue stream for the College and resource conservation through reuse	





Transportation

Actions	Objective	Timeline	Resources	Responsible	Result
Continue to work with the local government to increase and improve access to sustainable commuting options	Reduce GHG emissions related to commuting	2018-2022	Staff time	ISP/ FMP / PR	Increase accessibility to LCC by aternative modes of transportation
Improve utilization of satellite campuses and offerings of online classes	Reduce the need of commuting trips	2018-2022	Staff time / Infrastructure improvements	ASA / FMP / ISP	Less commuting trips to LCC and reduced GHG emissions related to transportation
Implement data collection methodologies	Determine transportation patterns	2018-2022	Surveys / Car counts / Bicycle loan data / LTD ridership data	ISP/ FMP	Information on transportation patterns to develop plans of improvement



Why Carbon Neutral by 2050?

- 1. Higher Education has an ethical responsibility:
- ✓ To help find a path toward sustainability
- ✓ To train our future leaders
- ✓ To model sustainability for our communities
- 2. Operational Resilience:
- ✓ To provide additional funds for student success
- ✓ To maintain steady business continuity





What you can do

- Join the Sustainability Committee
- Apply for Green Office Certification
- Consider purchasing decisions
- Join the 2018 Eco-Challenge
- Participate in Meatless Mondays



What you can do

- Use the LTD benefit
- Do carpooling
- Use daylighting whenever possible
- Use our Surplus Property Program & Rose Room
- Attend campus sustainability events