

SSU Climate Action Plan

Achieve carbon neutrality by 2043

Increase regional resilience

Integrate sustainability across curriculum and research.



Key Components



**Carbon
Neutrality
Roadmap**



**Communications &
Engagement
Strategy**



**GHG Inventory
and Reporting**



Carbon Neutrality Roadmap



GHG Emissions Forecast



Climate and Energy Tracker

Use this sheet to track, compare, and build scenarios. The "Scenario Comparison Chart" shows a number of display units (such as emissions or energy use) for each saved scenario over time. The "Emissions Tracker" shows, for a particular scenario and year, the emission reduction strategies, purchased offsets, and scenario emissions. Build new scenarios in the "Scenario Builder" below.

Scenario Comparison Chart









Co-Benefits

SYMBOL				
CO-BENEFIT	High potential to save money	High potential to ensure equity	High potential to create jobs	High potential to improve public health








Objective #1

Improve Building Performance

STRATEGY No.	STRATEGY	ACTION	BENEFITS	METRIC	TIMELINE	LEAD ACTOR
1A	Establish a campus energy efficiency (EE) program to reduce energy demand	Hire a full-time energy manager and establish an annual energy investment plan		Annual energy efficiency investment (\$)	Short Term	Facilities Management
		Complete a campus LED lighting retrofit program		Annual EUI reduction (kBtu/sf-yr)	Short Term	
		Establish a campus RCx / continuous commissioning program			Short Term	
		Identify optimal HVAC upgrade projects and establish funding & financing sources			Mid to Long Term	
1B	Transition to an all-electric, fossil fuel free campus	Implement a no-new gas policy and update campus design standards to support electrification		Campus natural gas consumption (therms/sf-yr)	Short Term	Facilities Management
		Replace natural gas system during buildings retrofit projects and at equipment failure			Mid to Long Term	
		Electrify existing heating and DHW systems, as outlined in the CESA tool			Mid to Long Term	
1C	Central Plant Electrification	Complete a CUP electrification study and establish a long-term implementation plan		HW supply temperature (F)	Short Term	Facilities Management
		Implement base heating system upgrades to reduce HW temperatures		CUP natural gas consumption (therms)	Short Term	
		Implement Phase 1 (partial electrification)			Mid Term	




Objective #2

Increase Renewable Energy

STRATEGY No.	STRATEGY	ACTION	BENEFITS	METRIC	TIMELINE	LEAD ACTOR
2A	Complete Development of Currently Contracted Solar + Storage Project with SunPower	<p>Complete contract signing</p> <p>Implement agreed upon site improvements prior to construction</p> <p>Monitor system construction performed by SunPower</p>	 	Percentage of renewable electricity generated on-site compared with overall SSU usage	Near-term	Facilities Department
2B	Complete feasibility analysis, procure and install additional on-site carport and/or ground mount solar projects at 1-5 locations on the SSU campus	<p>Complete a financial and technical feasibility study, assessing multiple financing options, for each potential project <u>included in</u> the CESA tool</p> <p>Engage with PG&E to gain a complete understanding of electricity export limits and solar upgrade costs</p> <p>Release RFP</p> <p>Approve contract(s)</p>	  	Percentage of renewable electricity generated on-site compared with overall SSU usage	Mid-term	Facilities Department

Objective #3

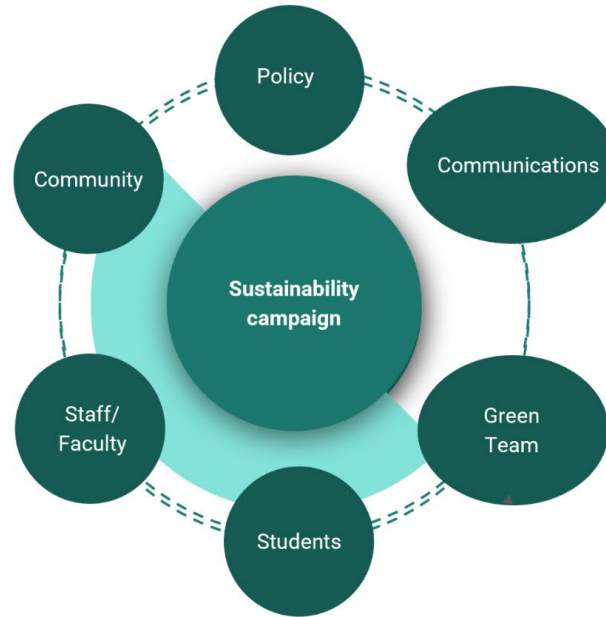
Increase Vehicle Fleet Efficiency & Fuel Switching

STRATEGY No.	STRATEGY	ACTION	BENEFITS	METRIC	TIMELINE	LEAD ACTOR
3A	Transition the fleet to electric vehicles	<p>Replace all 36 fleet passenger vehicles with electric vehicles by 2035, averaging ~3 per year⁸</p> <p>Implement "EV-first" vehicle purchasing policy to ensure that EVs are considered as the primary replacement option for every vehicle</p>	 	<p>MTCO_{2e}/year reduced</p> <p>Number of electric vehicles purchased per year</p> <p>Percent of fleet that is EV</p> <p>Increased MPGe</p> <p>Increased fuel savings</p> <p>Savings in fleet maintenance</p>	Mid term	Facilities Management
3B	Increase the number of EV charging stations ports on campus	<p>Develop vehicle charging infrastructure in select on-campus lots</p> <p>Follow the replacement scheduled outlined in the CESA tool</p>		Total # of SSU-owned EV charging stations	Mid term	Facilities Management



Communication & Engagement Strategy

Establish Internal Framework



Create Sustainability Tracker

Strategies & Opportunities	Action Steps	Milestones & Tracking	Emissions Impact	Timeline	Lead	Funding	Plan Alignment	Progress to date
Update policy in culinary vendor agreement to require annual food purchasing reporting using STARS format	Plan to circulate purchasing policy to dining hall manager in the Fall						CAP009	
Increase % of vegetarian meals served	Promote "Vegetarian Tuesdays"						CAP010	
Increase % of locally purchased food	Consider partnering with a local farm						CAP011	
	Provide produce or products that may be gathered through field "gleaning" programs or programs similar to "imperfect produce". These could provide food at a lower cost, while reducing food waste						CAP011	

Energy
Waste
Water
Purchasing
Habitat
Transportation
Built Environment
Resiliency



GHG Inventory and Reporting



Annual Reporting

- Prepare 2021 GHG Inventory.
- Write annual report on PG&E's renewable energy goals.
- Work closely with our campus Engineers, Project Managers, Director of CPDC, and Facilities Leadership to assure energy goals are being met, tracked, and reported.
- Report on the continuing push to purchase goods/products with increased levels of post consumer goods, and green transportation efforts.



QUESTIONS?