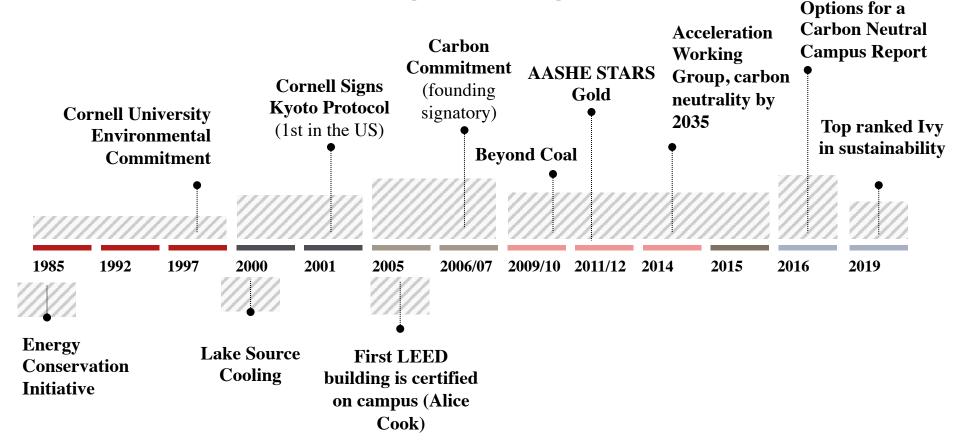


Cornell Sustainability History



Climate Action Plan

AVOID



Avoid carbon-intensive activities

REDUCE



Reduce energy demand with aggressive energy conservation and engagement programs

REPLACE



Replace fossil fuels with low-carbon renewable energy



OFFSET - O- Offset what remains with actions connected to our mission

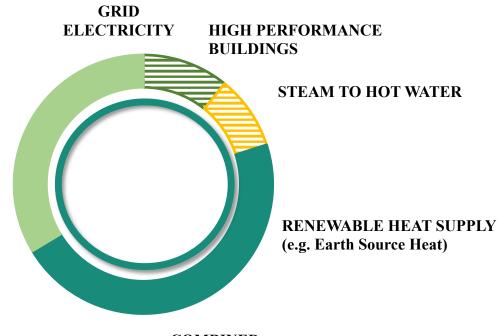
ENGAGEMENT PROGRAMS ARE THE KEY TO AVOID / REDUCE

Every member of the campus must help eliminate redundancy and waste as we invest in new technologies

Cornell Energy Systems Transformation

CO2 Emissions from Building Energy Use (metric tons)

2008	260,000	
2018	165,000	RENEWABLE ELECTRICITY
2035	0	



COMBINED HEAT & POWER, NATURAL GAS

Cornell Energy Systems Transformation Renewable Electricity

Currently renewables generate 20% of Ithaca campus annual electricity

In progress NY Higher Ed Large Scale Renewable Energy Consortium

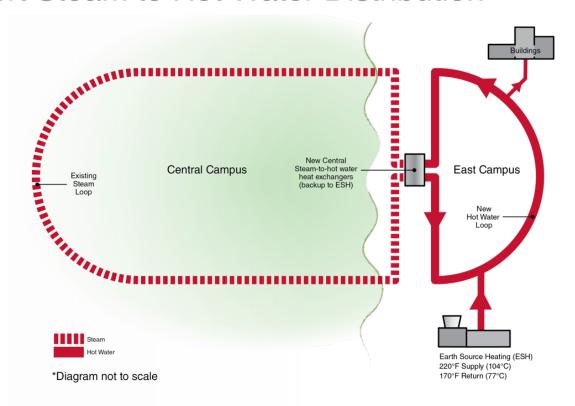
- 20 campuses, mix of private and SUNY
- New generation online before 2024
- Provide academic and research opportunities
- Achieve 100% renewable electricity
- Reduce carbon footprint down to 50%

Cornell Energy Systems Transformation High Performance Buildings



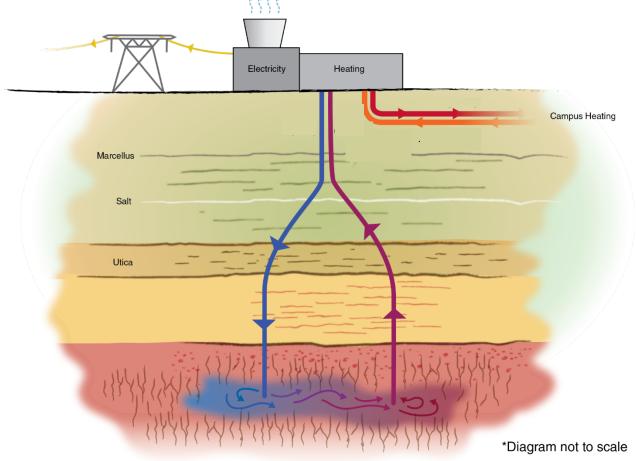


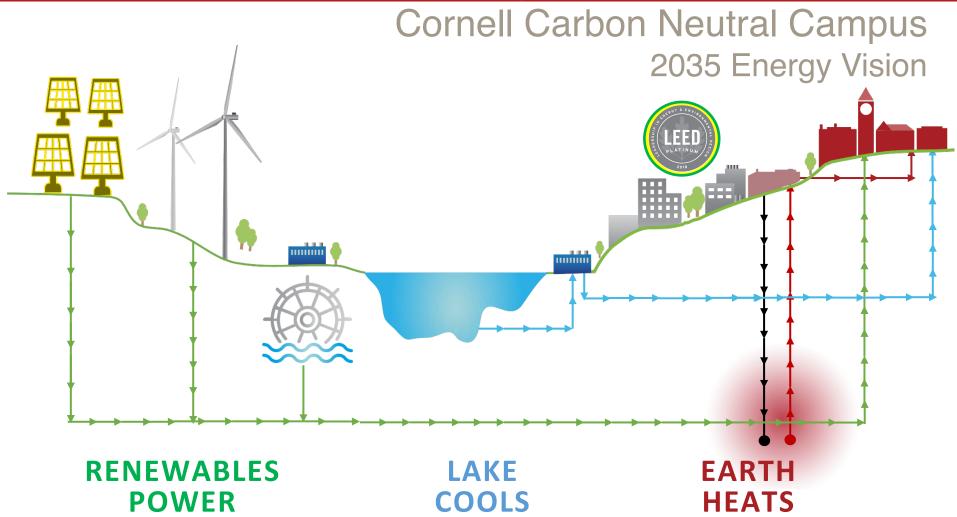
Cornell Energy Systems Transformation Convert Steam to Hot Water Distribution



Cornell Energy Systems Transformation

Renewable Heat





Sustainable Cornell Council Established Fall 2019

Cross-campus initiative to accelerate the impact of our sustainability and climate leadership vision by leveraging our strengths as a campus and community.

Sustainable Cornell Council: Committee Structure

LEADERSHIP TEAM

Direct and coordinate Cornell's role as an international leader in addressing climate change and sustainability, using our campus as a living laboratory

STEERING COMMITTEES

Identify topical priorities and develop work plans to advance progress

CARBON NEUTRAL
CAMPUS

Advance campus carbon neutrality through strategic implementation of the Climate Action Plan

CAMPUS OPERATIONS

Advance initiatives for a model sustainable campus that support climate resilience and human and planetary health

EDUCATION & ENGAGEMENT

Cultivate literacy and a culture of sustainability leadership that enables participation across the campus community

WORKING GROUP WORKING GROUP WORKING

WORKING GROUP WORKING GROUP







CARBON NEUTRAL CAMPUS	PROPOSED WORKING GROUPS (3)
	Air Travel Carbon Offset Pilot for Faculty
Carbon Neutrality	Make or Buy Electricity
	Protocol for Upstream Methane Leakage

EDUCATION & ENGAGEMENT	PROPOSED WORKING GROUPS (3)
Student Literacy	Incoming Student Climate Literacy
Behavior Change	Choice Architecture for Behavior Change
Living Laboratory	Living Laboratory Program Assessment

CAMPUS OPERATIONS	PROPOSED WORKING GROUPS (3)
Transportation	Transportation Impact Prioritization
Materials Management	Purchasing and Inventory Optimization
Food / Food Waste	Dining Operations Food Waste Reduction





CARBON NEUTRAL CAMPUS	Partner/Existing Initiatives	
Carbon Neutrality	Earth Source Heat Renewable electricity	
	Renewable electricitySteam to hot water conversion	
	Energy Conservation Initiative	
	Building energy standards	
	• Transportation: commuting modes, fleet vehicle conversion, campus circulator	
CAMPUS	Partner/Existing Initiatives	
OPERATIONS		
OPERATIONS	Campus Circulator negotiations with TCAT (Transportation)	
OPERATIONS		
OPERATIONS Transportation	Campus Circulator negotiations with TCAT (Transportation)	
	 Campus Circulator negotiations with TCAT (Transportation) Employee Assembly Transportation Ctte. 	
	 Campus Circulator negotiations with TCAT (Transportation) Employee Assembly Transportation Ctte. Pending UA Resolution on Campus Circulator 	
	 Campus Circulator negotiations with TCAT (Transportation) Employee Assembly Transportation Ctte. Pending UA Resolution on Campus Circulator 2018 Parking Optimization Study (Transportation) 	
Transportation Materials	 Campus Circulator negotiations with TCAT (Transportation) Employee Assembly Transportation Ctte. Pending UA Resolution on Campus Circulator 2018 Parking Optimization Study (Transportation) TDM Plan (Transportation) 	

SUSTAINABLE CORNELL COUNCIL



EDUCATION & ENGAGEMENT	Partner/Existing Initiatives
Student Literacy	 North Campus Faculty Programs' themes: Sustainability & Climate Change, Health & Well-Being, Diversity & Inclusion/Equity Learning Where You Live courses (e.g., "5 Pretty Important Things" course (launch F2020) contains climate module) Sustainability course catalogue One-credit colloquia/seminars for first-year students in undergraduate colleges Climate Literacy Survey (Jon Schuldt and Linda Croll Howell) Climate Literacy White Paper (Mike Hoffmann)
Behavior Change	• Coordinate with SCC Steering Committees and Working Groups to recommend choice architecture, behavior change, and engagement opportunities to drive towards shared goals.
Living Laboratory	 Cornell Atkinson research Engaged Cornell Public Service Center Campus Sustainability Office Living lab worksheet Campus Sustainability Office supports 30+ projects / year Energy Smart Communities Earth Source Heat Energy & Sustainability Department supports 10+ projects per year Tours offered of solar farm, CHP, other energy facilities Climate literacy survey for students

