

University of Connecticut

Carbon Neutral Task Force
Meeting #6

March 2023

Agenda

- REC Funds and Program
- Big Ten Meeting
- Updates/Open Discussion



REC Program Overview

Since 2008, UConn has utilized an internal revolving green fund to support Energy Conservation Measures and Sustainability Initiatives. This fund is supported solely by CT Class III Renewable Energy Credits generated by our Combined Heat and Power Cogeneration Facility combined with rebates and incentives received through Partnership Agreements with Eversource, CNG, and Groton Utilities. Reduced on campus population allowed lower energy usage during the pandemic which in turn reduced the future funds available.



REC Program – How It Works

Husky Power Meets Storrs Campus Energy Requirements

Electric Capacity: 24.9 Megawatts/Hour

Steam Capacity: 600,000 Pounds/Hour

Chilled Water Capacity: 10,300 Tons/Hour

1 REC = 1 MWh
of electricity
produced

UConn averages about 120,000 RECs generated per year with summer and academic semester demand loads. We keep around 75% for reinvestment into future projects and return 25% back to the state.

The cost of RECs can vary anywhere from \$10 - \$37. Currently our RECs are worth about \$15 each

Twenty-five percent of the Renewable Energy Credits are returned to the Connecticut Clean Energy Fund for state wide energy conservation initiatives.

REC Program – Utility Partnerships

UConn



MOU Term 2021-2024
Current Incentive Rates: \$0.40 / kwh, \$4.00 / ccf



An AVANGRID Company

MOU Term 2022-2024
Current Incentive Rates: \$1.50/CCF saved up to 60% of installed cost for 1st 100,000 annual CCF saved*
\$2.50/CCF saved up to 75 % of installed cost for all additional CCF saved*



GROTON UTILITIES

Commercial Lighting Program
Rebate not to exceed 40% or 30 cents per annual KWH saved. Maximum annual rebate not to exceed \$100,000.

REC Program – Ongoing Projects



EE #	Campus	Project Name	Utility	Utility project number	Annual Savings (kWh)	Savings (kW)	Annual Savings (CCF)	Estimated MMBtu Savings (MMbtu)	Estimated cost of MMBtu (\$)	Estimated carbon saved (metric ton)	Estimated cost of metric ton of carbon saved (\$)
22-007	Storrs	Torrey Life Science Greenhouse Insulation	CNG	TX9d			8,988		\$ -	49.52	\$ 534.27
22-017	Storrs	CO-GEN Plant - Air Compressor with VFD Replacement	Eversource	CT22P01372738	117,936	14.18		402.41	\$ 61.91	69.69	\$ 357.51
22-026	Storrs	Gentry Building LED Retrofit	Eversource	CT22P01571287	145,643	18.17		496.95	\$ 443.61	86.06	\$ 2,561.52

Snapshot from the EE Team Project List

Big East – Chief Facilities Officers Forum

UConn



March 9, 2023 Meetings

Attendees

- St. Johns
- Georgetown
- Villanova
- Marquette
- Providence
- UConn

Carbon Neutral Website – Outline Review

The screenshot shows the top navigation bar of the UConn website with the logo and search function. Below is a dark blue header for the 'Carbon Neutral Task Force' with a navigation menu containing 'Home', 'Data and Projects', and 'Sustainability Action Plan'. The main content area features a 'Welcome!' section with a 'Task Force Charge' quote, a 'Members' list, a 'Meetings' schedule, and a 'News' section. A background image of a 'clean energy' sign is visible behind the text.

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Q A-Z

Carbon Neutral Task Force

Home Data and Projects Sustainability Action Plan

Welcome!

Task Force Charge *“The Carbon Reduction Working Group will continue to support ongoing energy conservation efforts but will also identify, evaluate, and recommend specific cost-effective initiatives and actions within the larger context of the university’s available resources. This includes academic research and other programs, that will increase the use of clean and sustainable energy on UConn’s campuses and reduce environmentally harmful emissions. The goals of this group include UConn achieving carbon neutrality on its campuses by 2030, with the ultimate goal of zero carbon by 2040.”*

Members

Michael Jednak, AVP (Full Name & Title/Association)
Stan Nolan
Katie Milardo
Erica
Mary
Dylan
Lilly
Lili
Liam
** Additional Support members have been invited to speak and share expertise.*

Meetings:

Week 1 : Introductions
Week 2 : Energy Conservation Program
Week 3: Solar Projects
Week 4: Hydrogen
Week 5: Hydrogen Fuel Cells
Week 6:

News

Link to President Maric’s Testimony to the CGA
Relevant News Articles
Connecticut Hydrogen Task Force Report
Sustainability performance plan

Carbon Neutral Website – Outline Review

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Carbon Neutral Task Force

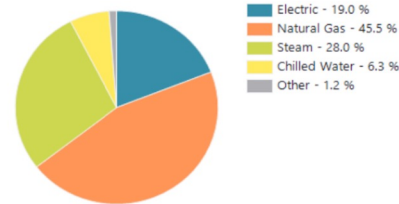
Home Data and Projects Sustainability Action Plan

Energy Conservation Program

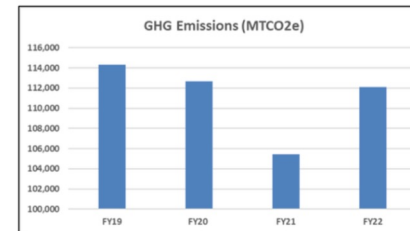
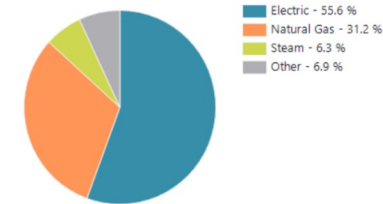
The UConn Office of Energy Conservation has been continually trying to reduce the carbon footprint of the university compared to the 2001 baseline. UConn utilizes data from our metering systems to determine which buildings require intervention to make them more sustainable and efficient. This program includes projects such as [SLED 1](#). Other projects include the installation of solar panels onto the Bus Stops and investigating larger solar canopy installation over existing parking lots. The Energy Conservation Program uses a combination of upgrading existing structures and improving design efforts in new structures to improve the energy efficiency of UConn's campuses.

Energy Use & Emissions FY22

Energy Use Percentage



Cost Percentage



Carbon Neutral Website – Outline Review

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Carbon Neutral Task Force

Home Data and Projects Sustainability Action Plan

President Radenka Maric has committed UConn to the goal of carbon neutrality by 2030. President Maric will be releasing her Sustainability Action Plan in the near future. She has spoken with the Connecticut General Assembly about the results of the Hydrogen Study Task Force linked below.

Open Discussion

