

University of Connecticut

Carbon Neutral Task Force Meeting #2

February 2023

Agenda

- Task Force Charge
- Energy Conservation Program
 - Project and Data Tracking
- Ongoing Project Update
- Open Discussion



“The Carbon Reduction Working Group will identify, evaluate and recommend specific cost-effective initiatives and actions, within the larger context of the university’s available resources, that will increase the use of clean and sustainable energy on UConn’s campuses and reduce environmentally harmful emissions with the goal of allowing UConn to achieve carbon neutrality on its campuses by 2030.”

Carbon Reduction Vision



Three (3) Solar Taurus 70 Turbines-
Central Utility Plant (7.5 MW each)
Free Thermal (steam) ~ 60,000 lbs/hr



Operation of the Central Utility Plant
Creates Renewable Energy Credits
which Funds Energy Conservation
Projects



Solar – Parking Lots
7.5 MW



Fuel Cells – Science 1 and 6
Building Locations (7 MW)



Other potential projects include geothermal, solar,
hydrogen vehicles, wind and continuing with energy
conservation program



Large Scale Projects



Turbines Hydrogen Fueled with Carbon
Capture
Supplemental Utility Plant (25 MW)
Free Thermal (steam) ~60,000 lbs/hr



Wind, Solar, Geothermal, Storage
Hydrogen Alternatives



Energy Conservation Program – SLED Phase 1



Storrs Campus LED Lighting Phase 1 Project Summary



1,116 metric tons GHG Reduction

Total Project Cost (Before Incentives)	\$5,748,138
Project Annual Energy Savings	1,887,847 kWh
Annual Utility Cost Savings	\$188,784
Eversource Utility Incentives	\$787,698
Greenhouse Gas Reduction	1,116 MTeCO₂ ✓

Energy Conservation Program – Energy Cap Data



State of Connecticut

Report-01-BLDG - Monthly Trends—Comparing Year-to-Year – Buildings

Monthly Use by Year (Jun - May)

0238 College of Liberal Arts and Sciences [7301-152]

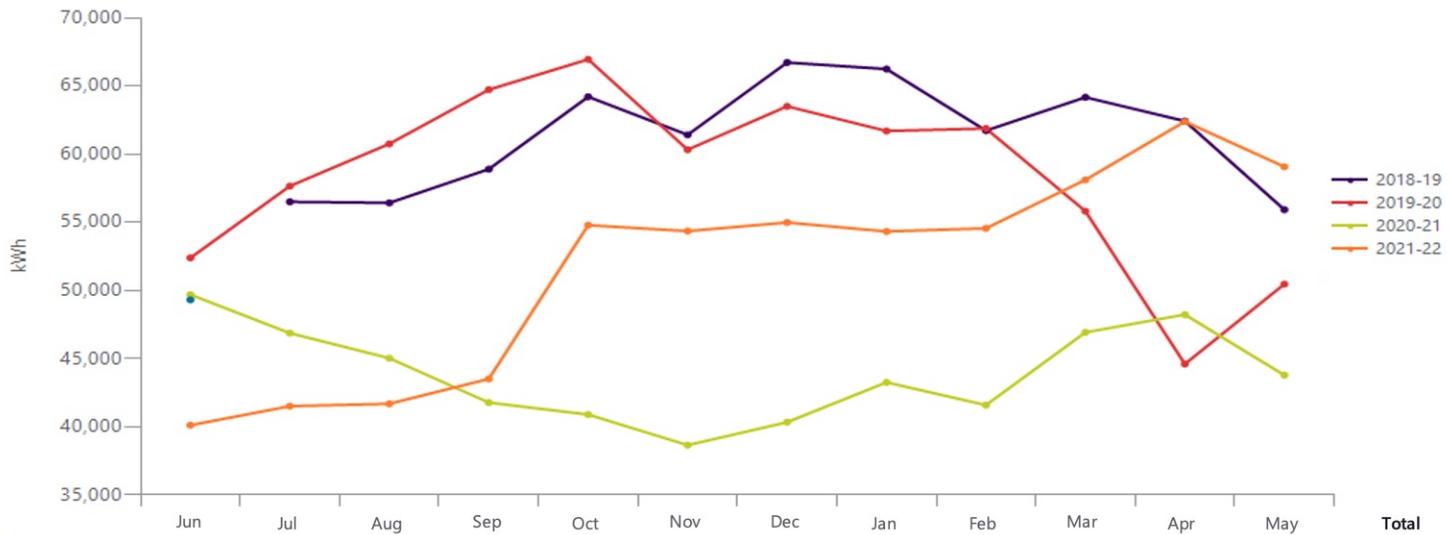
Academic/Instruction (kWh) 118,032 SqFt
 Primary Use Floor Area

215 Glenbrook Road
 Storrs Mansfield, CT, US 06269

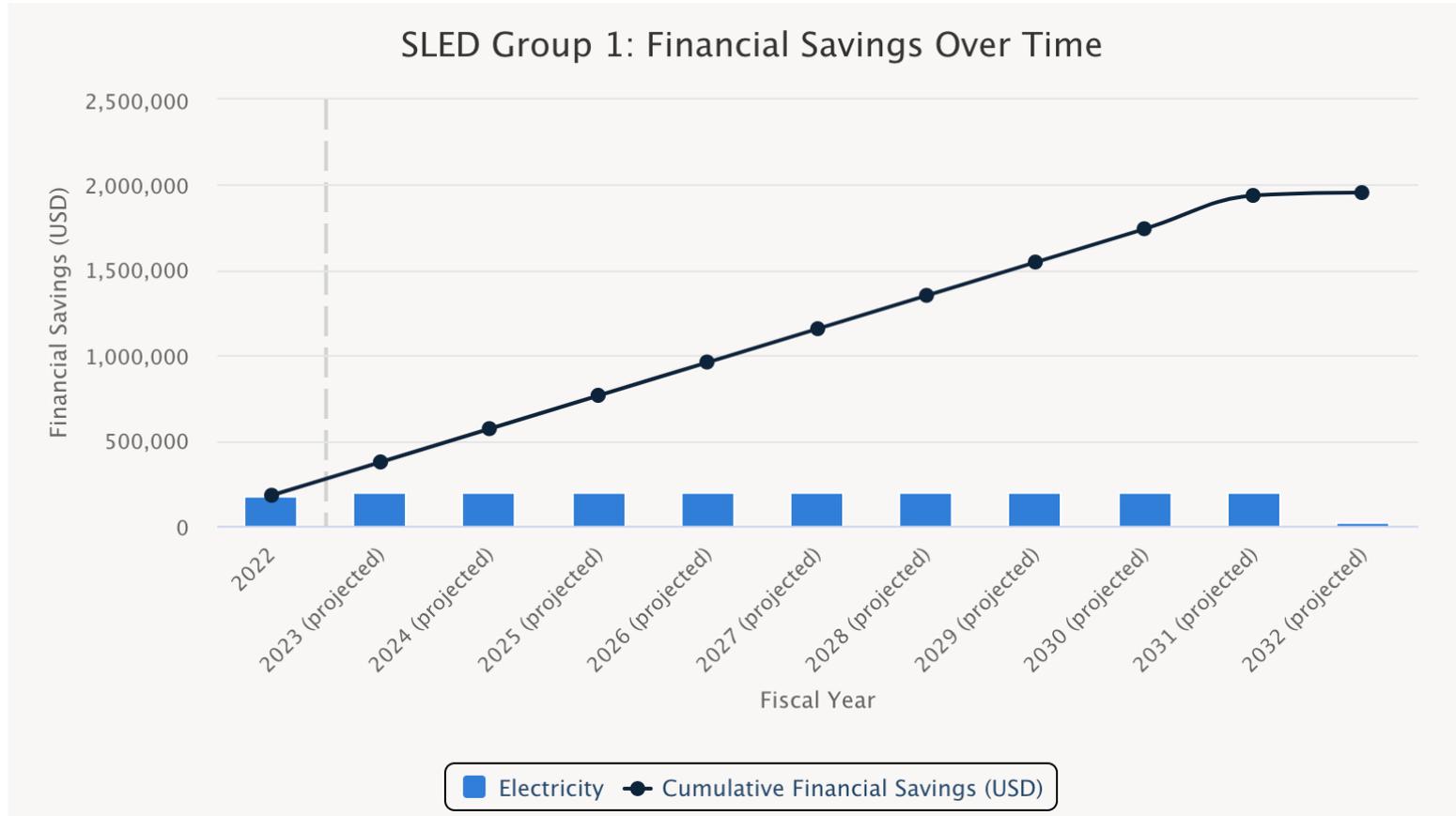
Building 01/01/1959
 Place Type Build Date

Address

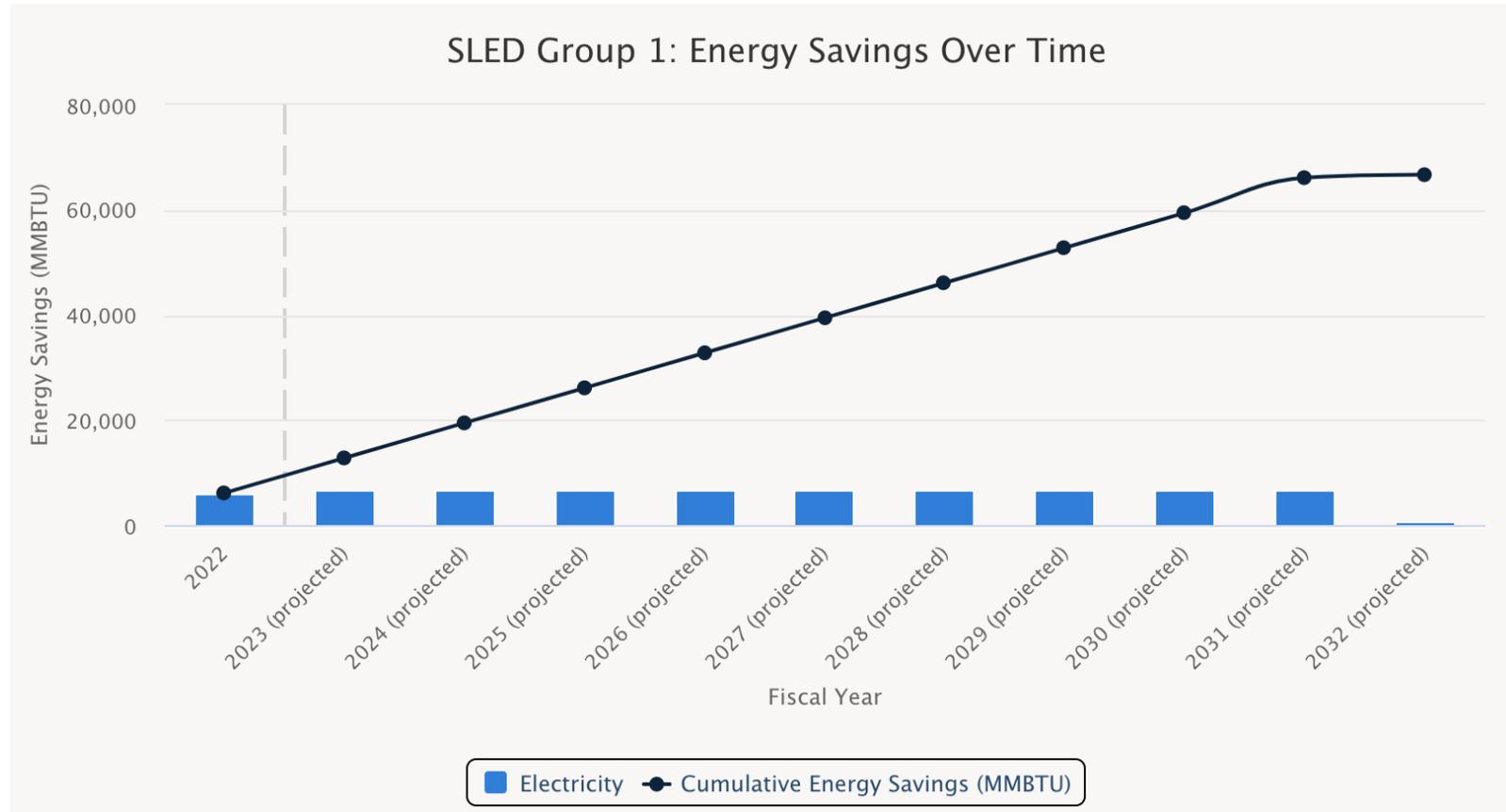
Monthly Use by Year (Jun - May)



Energy Conservation Program – GRITS Data



Energy Conservation Program – GRITS Data



Open Discussion

