

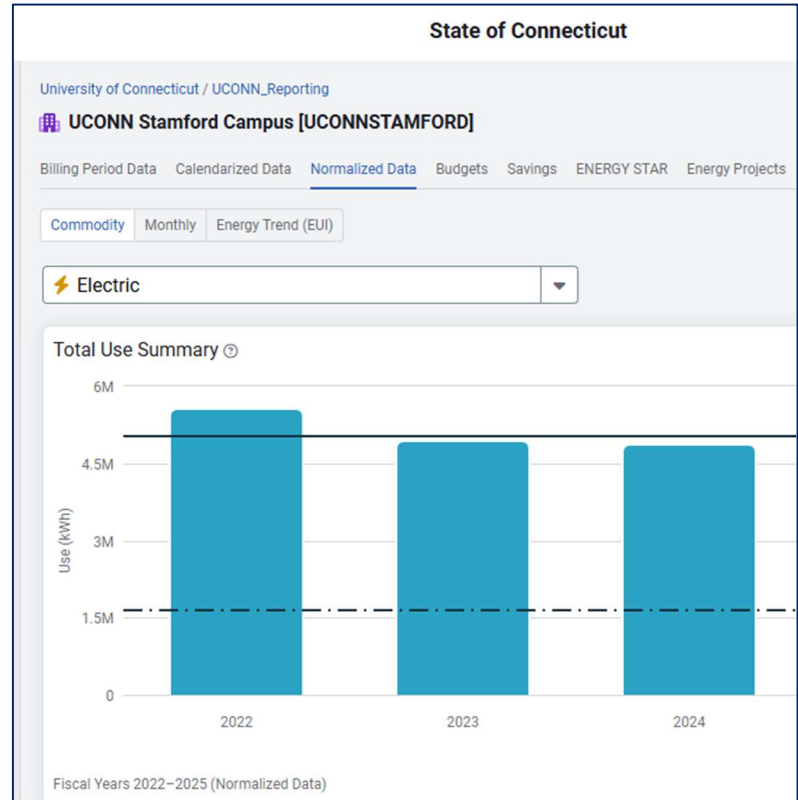
Stamford Campus Energy Efficiency Renovations

UConn's Facilities Operations department recently completed several large energy initiatives at the Stamford campus.

- The lighting systems were upgraded to LED across the entire Stamford Campus. The upgraded lighting provides both aesthetic improvements and supports the University of Connecticut's target to become a carbon neutral campus by the year 2030. The new LED fixtures use less than 25% of the energy compared to the older lighting system technology while improving light levels and light quality in many areas.
- Another key initiative was retro commissioning of the HVAC systems and the associated building control systems. This focused-on optimization of the mechanical equipment operation, rebalancing and re-testing the systems that provide environmental comfort. This project was a 3-year effort and many additional repair items were identified and corrected.

Snapshot of Stamford Electrical Energy Use by Fiscal Year

Source: State of CT; EnergyCap Portal



**524 metric tons GHG
Reduction**

Total Project Cost (Before Incentives)	\$939,007
Annual Electric Savings	918,990 kWh
Annual Natural Gas Savings	28,317 ccf
Annual Utility Cost Savings	\$185,593
Eversource Utility Incentives	\$494,517
Simple Payback on Investment	2.4 (years)
Greenhouse Gas Reduction	524 MTeCO₂ ✓

Total of Project Costs			
initiative	Total Installed Cost	Utility Incentives	Net Cost
Floor 1 LED Lighting Upgrade	\$177,267	(\$83,074)	\$94,193
Floor 2 LED Lighting Upgrade	\$139,004	(\$83,074)	\$55,930
Floor 3 LED Lighting Upgrade	\$114,943	(\$83,074)	\$31,869
Building Exterior, Garden / Park Area and Street Light LED Upgrade	\$128,288	(\$83,074)	\$45,214
Building HVAC and Control System Retro-Commissioning	\$379,505	(\$162,220)	\$217,285
Total of Energy Project Costs	\$939,007	(\$494,517)	\$444,491
Misc Mechanical Repairs to VAV Terminal Units & Chiller Room Refrigerant Monitor	\$220,519	\$0	\$220,519
Total Capital Expended	\$665,010		

Annual Energy Savings					
Initiative	Electricity - Annual kWh	Nat. Gas - Annual CCF	Electricity - Annual USD	Nat. Gas - Annual USD	Total Annual GHG Reduction (metric tons)
LED Lighting Upgrades	488,703	0	\$80,636	\$0	289.0
Building HVAC & Control System Retro-Commissioning	430,287	28,317	\$70,977	\$33,980	234.5
Total Savings	918,990	28,317	\$151,613	\$33,980	523.5