

University of Connecticut

Carbon Reduction Working Group
Meeting #9

April 2023

Agenda

- GHG Data, Tracking and GHG Summary Status
- Facilities Website Update
- Updates/Open Discussion

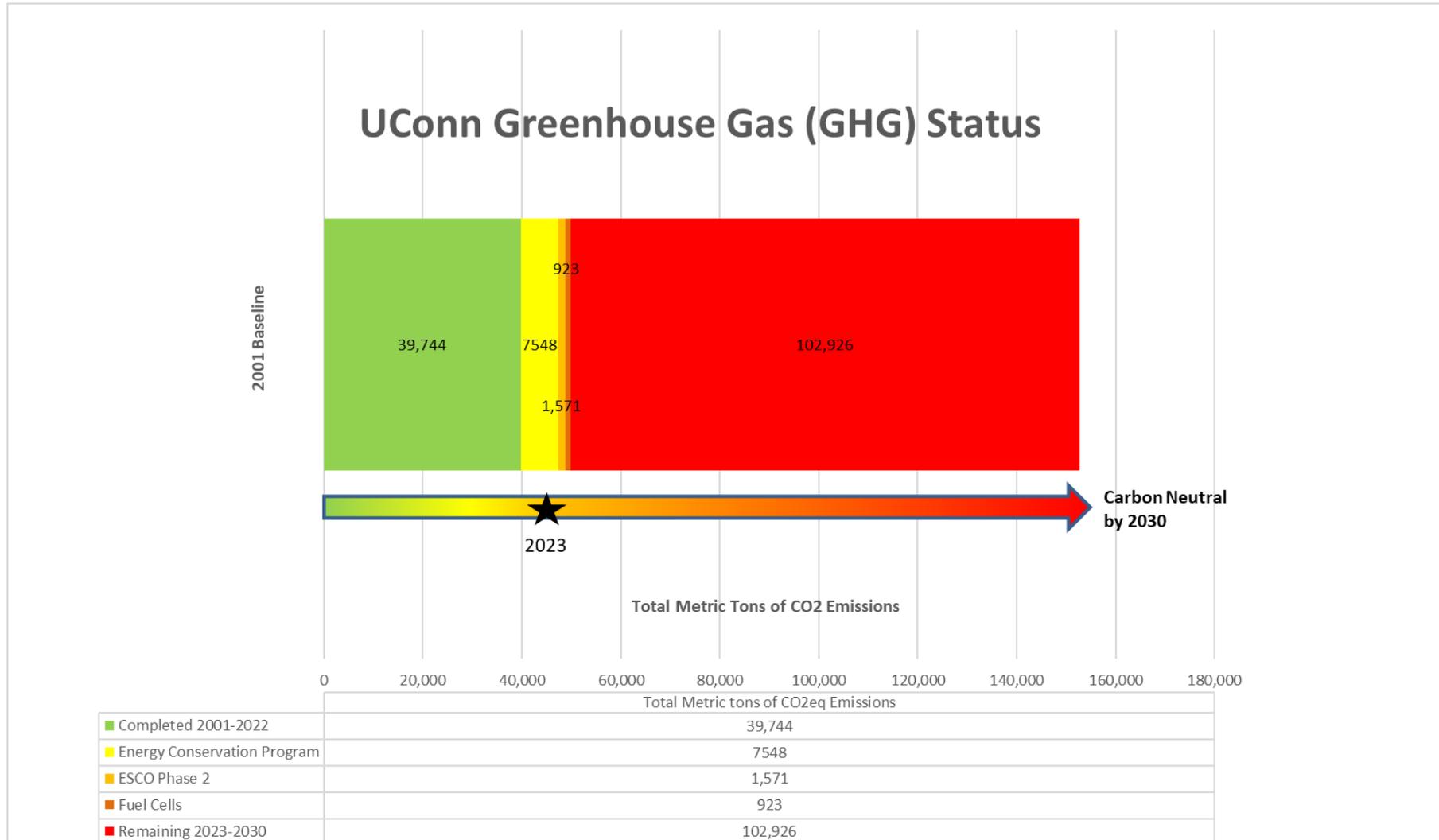


GHG Data – EE Project List Snapshot

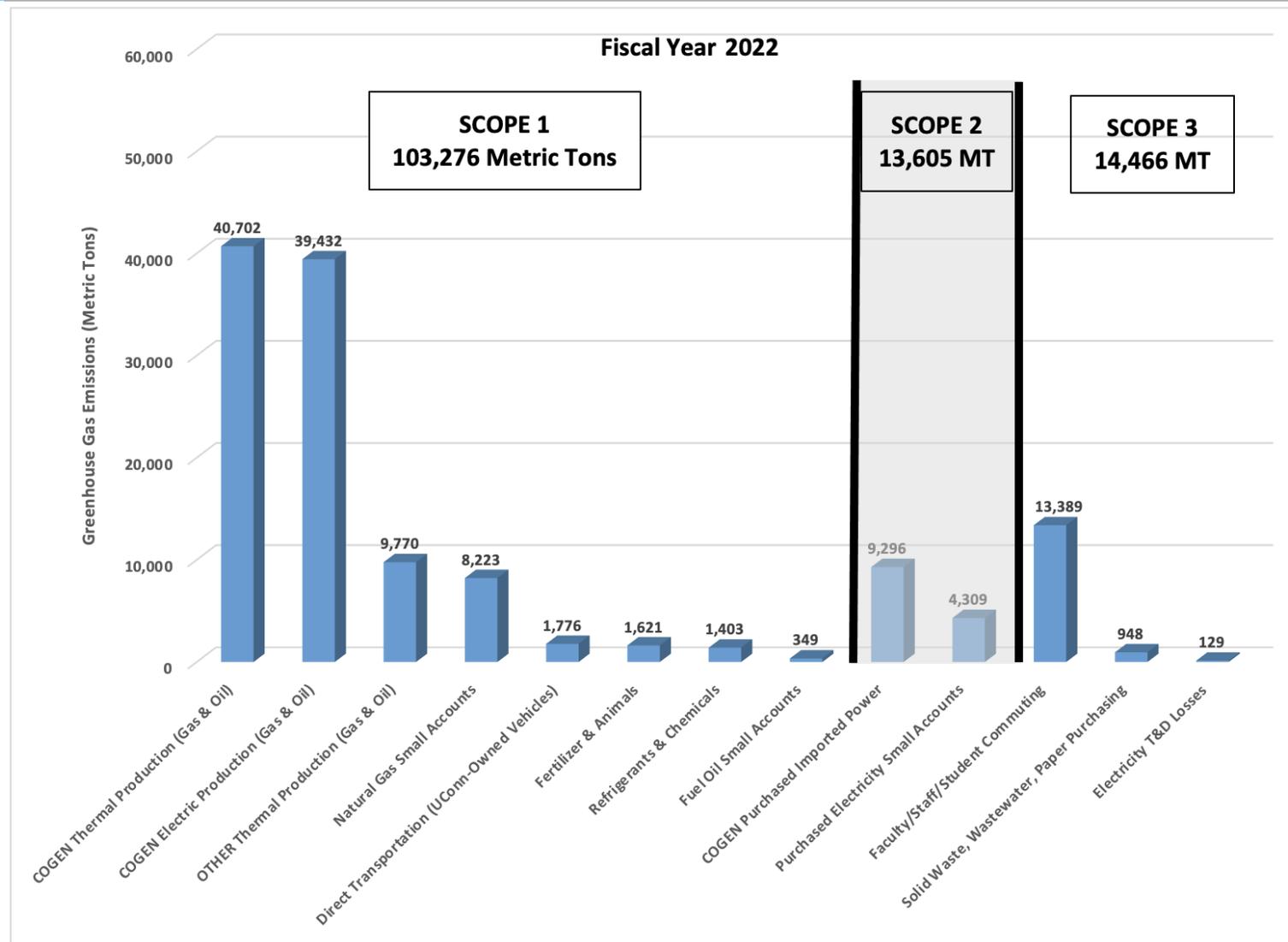
EE #	Campus	Project Name	Utility	Utility project number	Annual Savings (kWh)	Savings (kW)	Annual Savings (CCF)	Estimated MMBtu Savings (MMBtu)	Estimated cost of MMBtu (\$)	Estimated carbon saved (metric ton)	Estimated cost of metric ton of carbon saved (\$)
22-007	Storrs	Torrey Life Science Greenhouse 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

Greenhouse Gas Emissions Summary Snapshot

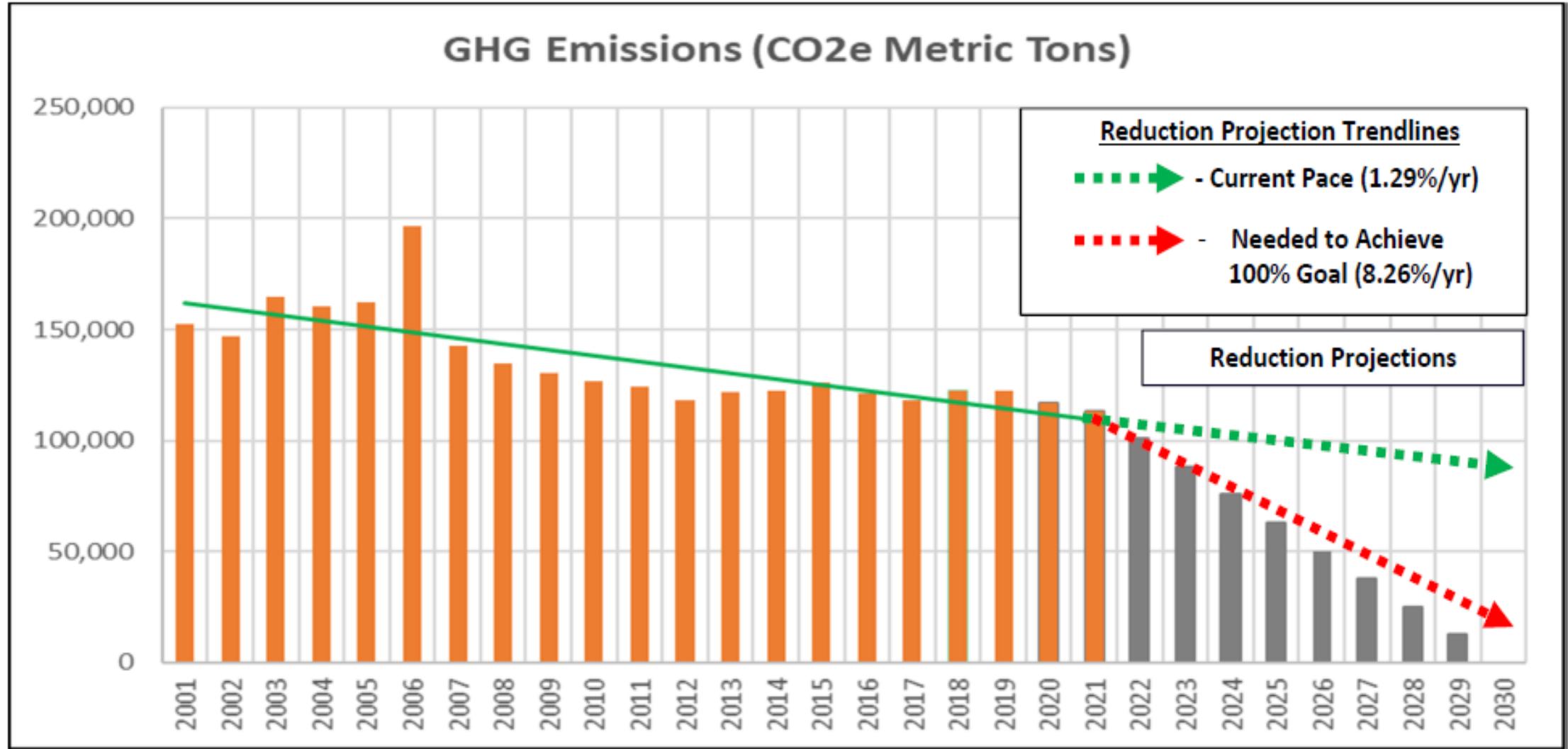
Greenhouse Gas Emissions Summary						
Greenhouse Gas Reduction Targets	2001 Baseline GHG Emissions (Metric Tons):	152,712				
	100% of 2001 Baseline (Metric Tons):	152,712	112,968	needed to achieve 100% by 2030		
Summary	Time Period Emissions (Metric Tons)					
		2001-2022	2023-2030			
Totals (Metric Tons)		(39,744)	(42,734)			
Cumulative Totals			(82,478)			
Percent Reduction/Increase		-26.03%	-54.01%			
Emission reductions needed to achieve net zero growth (Metric Tons):		20,232				
Project Description	Time Period Emissions (Metric Tons)		Estimated Project Costs	Ave. Net Costs/ ton of Reduction	MT/MW Equivalent	
		2023-2025				
On-Going Projects						
Impact of Natural Gas Curtailment	Up to 5 days at 190 metric tons net increase per day	950				
Lighting and Controls (Projects not covered under SLED. On-going)	Energy Savings (Estimated)	(962)	(962)	\$988,602	\$1,028	(1)
SLED Lighting Projects (on-going)	Energy Savings (Estimated)	(2,486)	(2,676)	\$25,274,474	\$2,258	(6)
Conversion of Light Duty Vehicles to Hybrid or Electric (On-going)	Energy Savings (Estimated)	(173)	(518)	\$7,050,000	\$40,816	(0.8)
ASHRAE Audit Building Improvements	Energy Savings (Estimated)	(1,335)	(1,335)	\$66,227		(3)
Other ECM's (On-Going)	Energy Savings (Estimated)	(2,592)	(2,592)	\$61,928	\$4,184	(3.05)



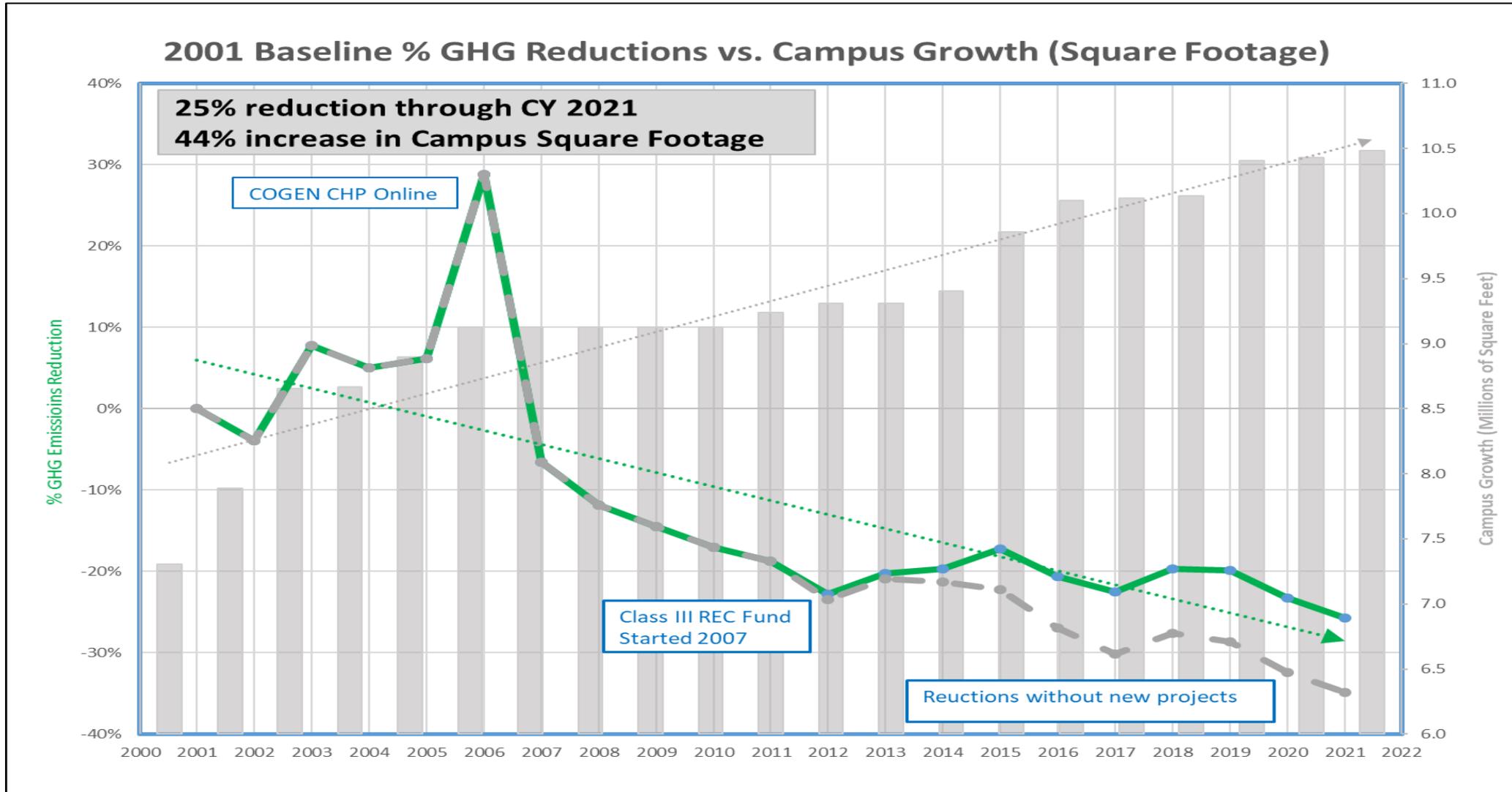
Greenhouse Gas Emissions Breakdown by Scope



UConn GHG Emissions Reduction Rate



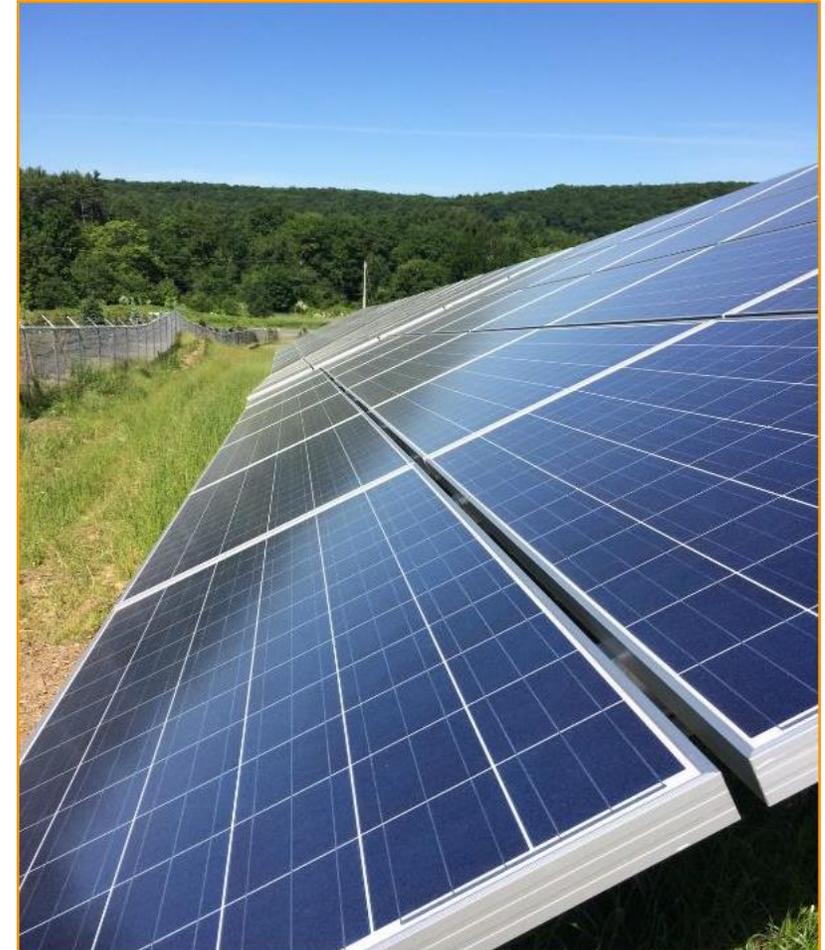
UConn GHG Emissions Reductions to Date



- <https://president.uconn.edu/communications/carbon-reduction-working-group/>
- <https://fo.uconn.edu/departments/facilities-energy-services/energy-conservation/>



- SUP Tour – April 12th
- Last Carbon Neutral Coffee Talk - 4/20
- Next Meeting Topic :
 - Last meeting – Recap of the Spring Semester 4/28



Open Discussion

