



2024-25 Holiday Curtailment Energy Savings Report

Summary

This year the UC Berkeley Campus curtailed buildings over the winter holiday for 13 days, from December 20th through January 1st. The Energy Office worked with the EMS group, Stationary Engineers, Watch, HVAC and Electric Shops to curtail 60 buildings. In total, curtailment saved 717,065 kWh and 2,308,626 pounds of steam. Compared to the baseline, electric use was 12% lower and steam use was 10% lower (when normalized for weather). Even though the campus experiences the lowest electric rates of the year over winter break, curtailment saved the campus approximately \$215,000 and 220 metric tons of carbon dioxide emissions. Below are the detailed costs and energy savings associated with curtailment this year.

	Electric (kWh)	Steam (lbs)*
Pre-Curtailment Usage	6,070,312	23,311,487
Curtailment Usage	5,353,247	21,002,861
Savings	717,065	2,308,626
% Savings	12%	10%

*Weather normalized

Cost (Labor)	\$25,000
Savings	\$215,044
ROI	860%

Curtailment saved 220 metric tons of CO₂ – the emissions of:

26.5 average US homes' annual energy use...

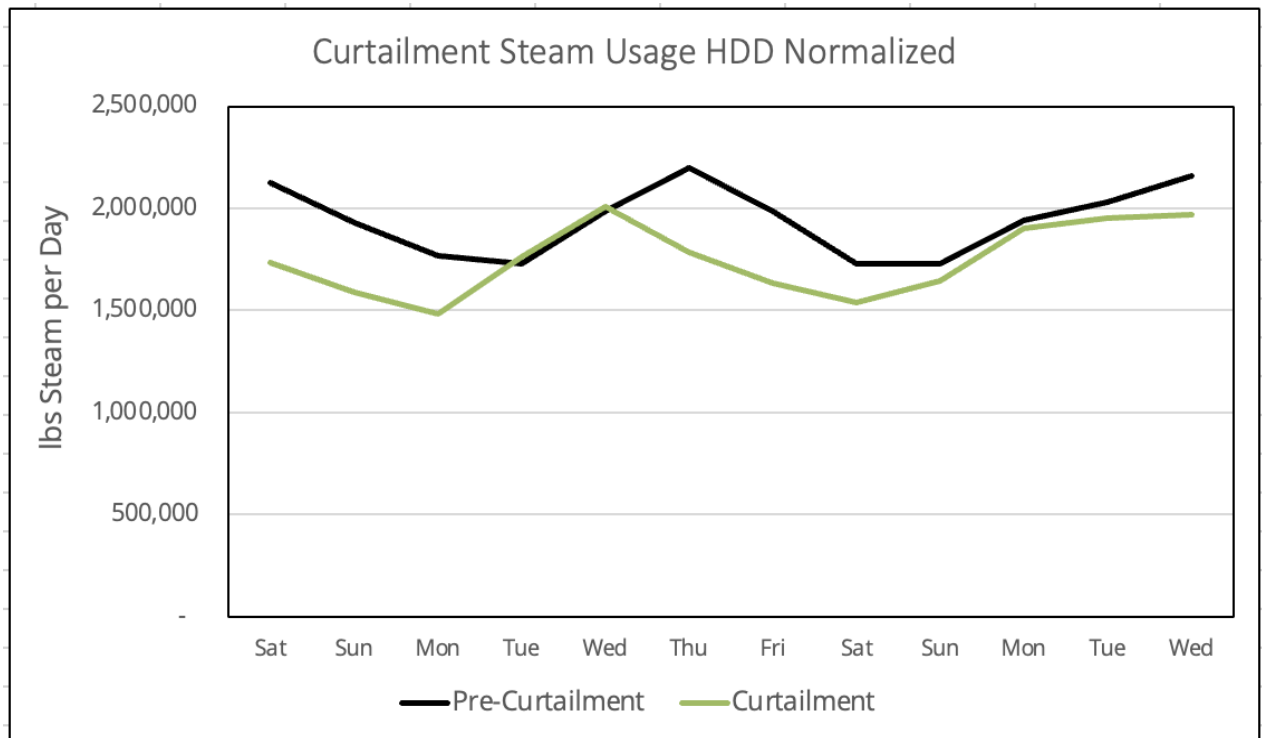
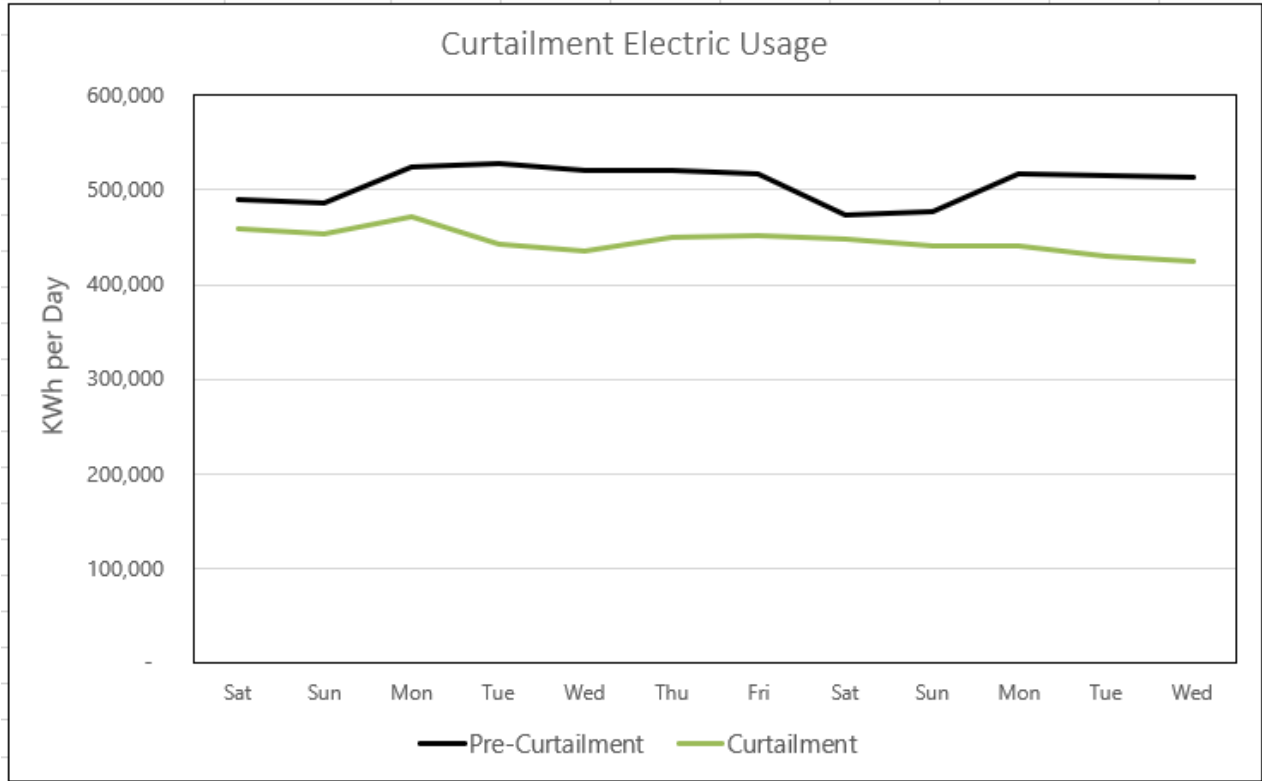


...or 1 Railcar of Coal



Total Campus Electric and Steam Usage

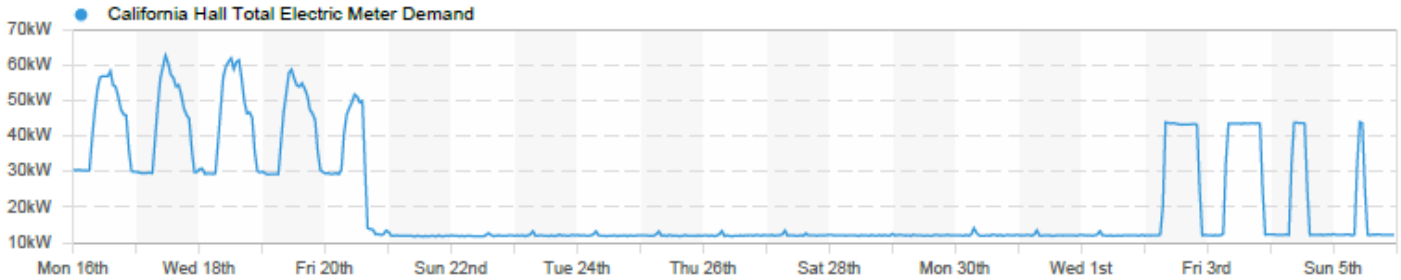
The graphs below illustrate Electricity and Steam usage during Pre-Curtailment (12/07/24 - 12/18/24) and Curtailment (12/21/24 – 01/01/25) periods.



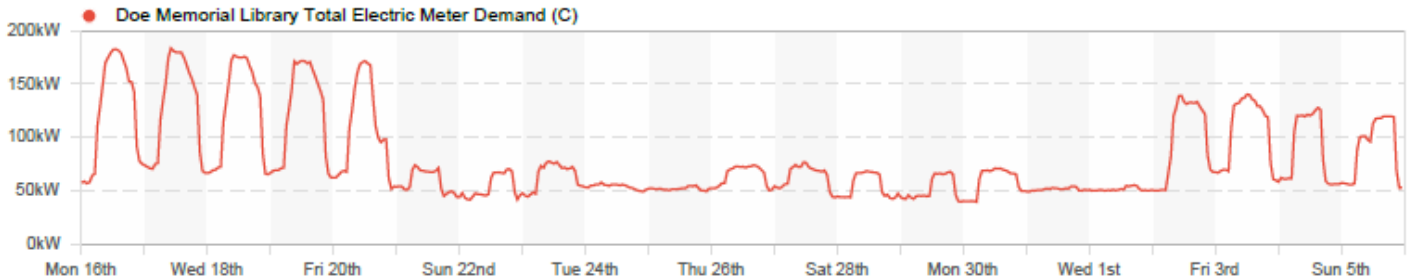
Electric Demand Reduction – Campus Buildings

The graphs below illustrate the significant drop in energy demand (kW) during the 2024-25 winter curtailment program at four of the 60 campus buildings in the program.

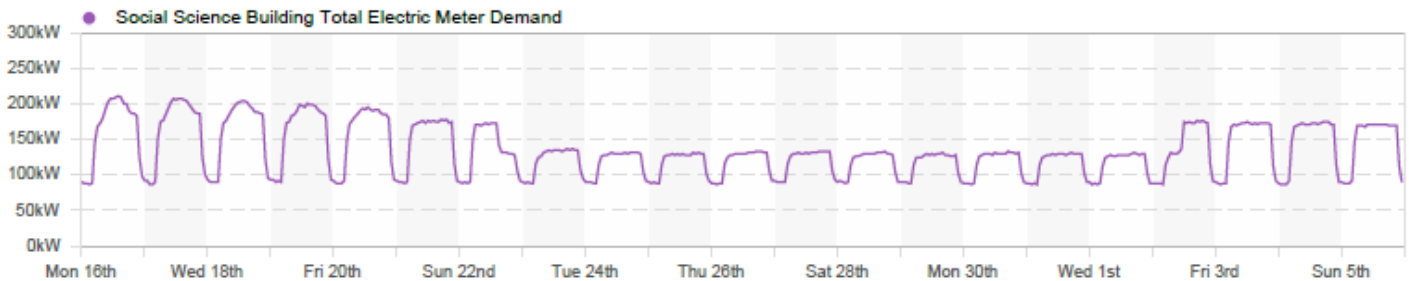
California Hall



DOE Memorial Library



Social Science Building



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