



Curtailment 2021-22 Energy Savings Report

Summary

This year the UC Berkeley Campus curtailed buildings over the winter holiday for 11 days, from December 23rd through January 2nd. The Energy Office worked with the EMS group, Stationary Engineers, HVAC and Electric Shops to curtail 60 buildings. In total, curtailment saved 815,611 kWh and 3,552,994 pounds of steam. Compared to the baseline, electric use was 13.6% lower and steam use was 10.0% lower (when normalized for weather). Although the campus experiences the lowest electric rates of the year over winter break, curtailment saved the campus approximately \$175,000 and 516 metric tons of carbon dioxide emissions. Below are the detailed costs and energy savings associated with curtailment this year.

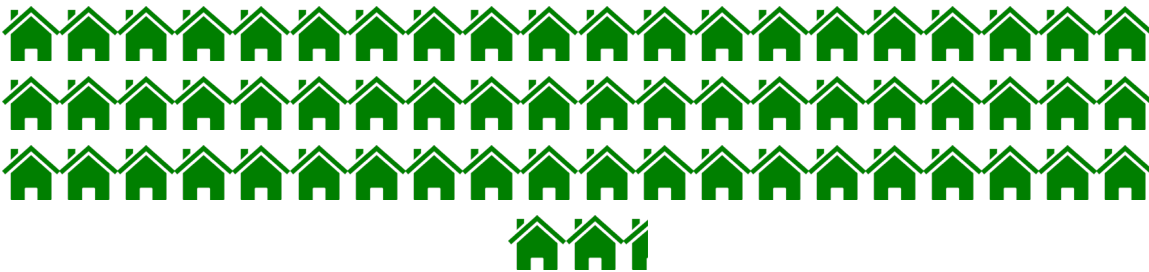
	Electric (kWh)	Steam (lbs)*
Pre-Curtailment Usage	5,982,047	35,390,195
Curtailment Usage	5,166,436	31,837,201
Savings	815,611	3,552,994
% Savings	13.6%	10.0%

*Weather normalized

Cost (Labor)	\$15,000
Savings	\$174,926
ROI	1166%

Curtailment 2021-22 saved **516 metric tons** of CO₂ – the emissions of:

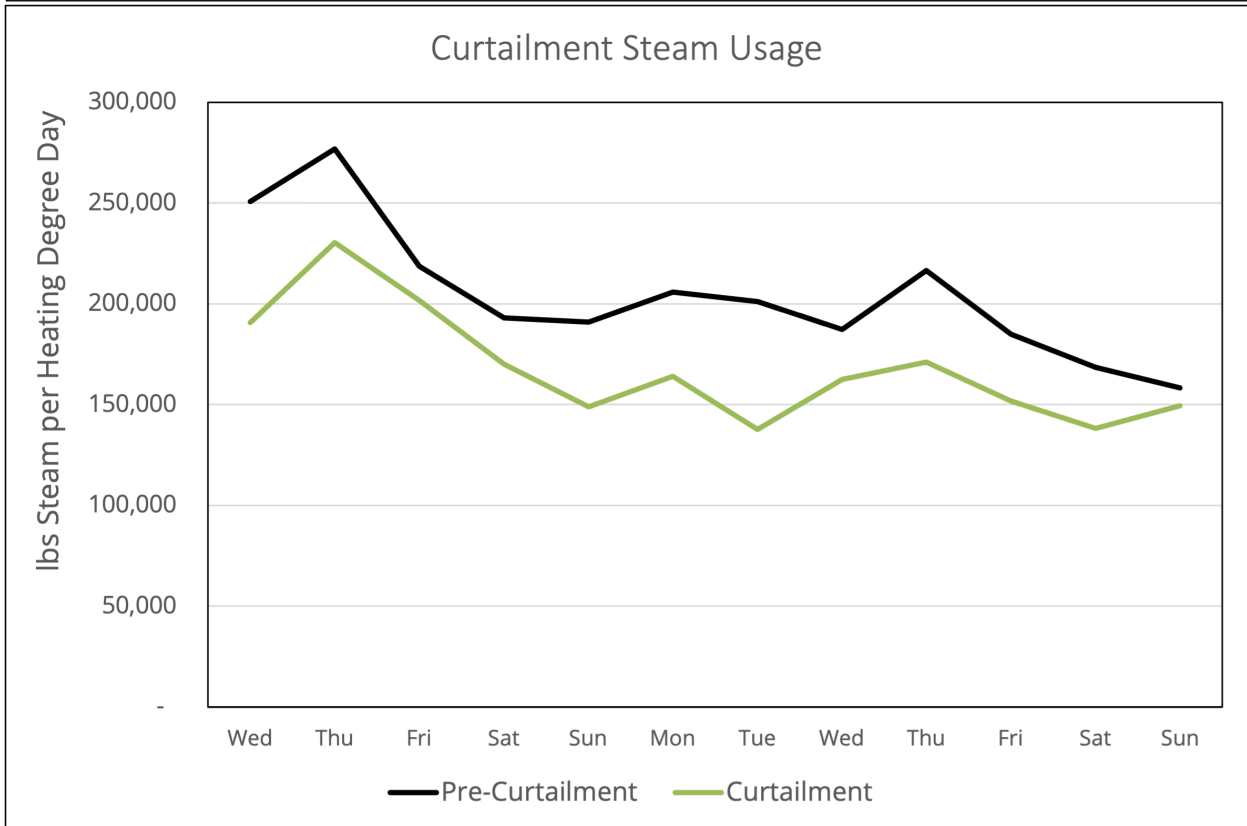
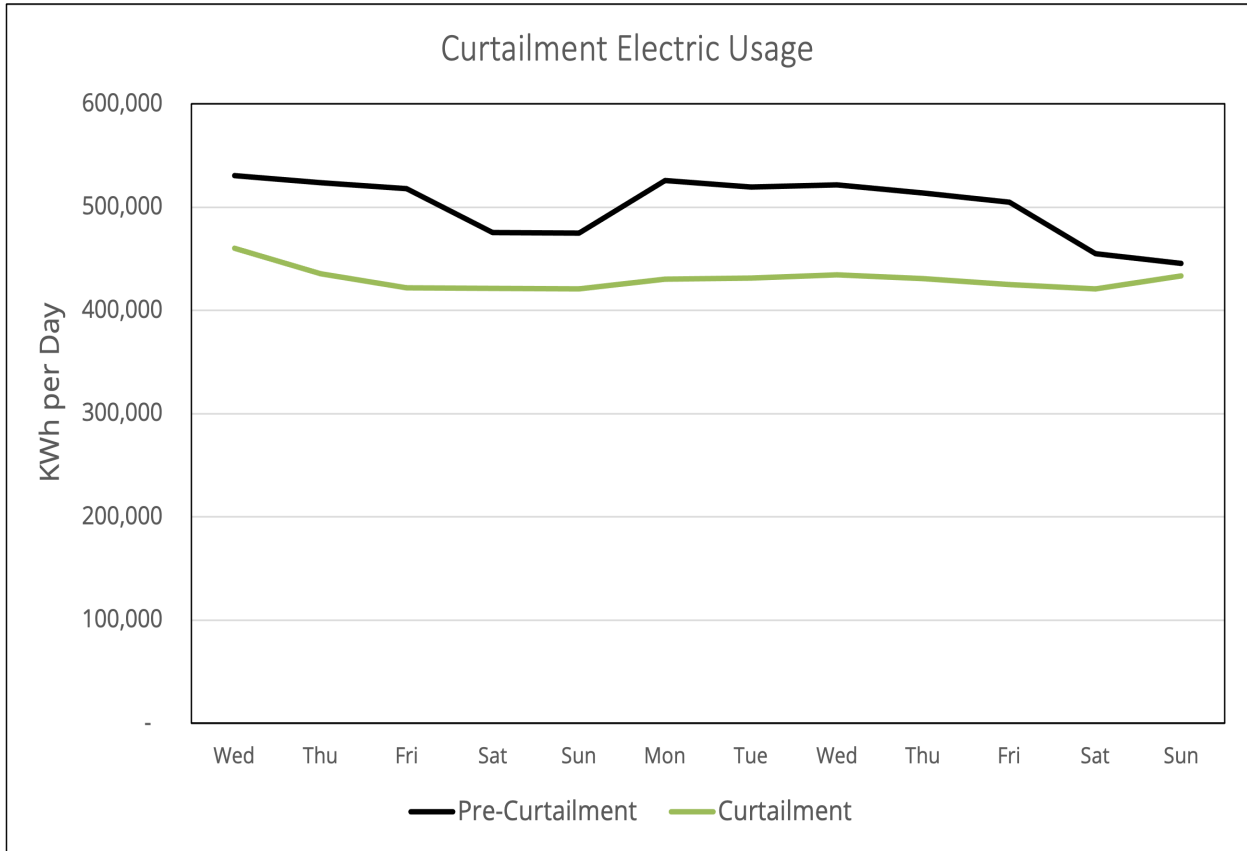
62.2 average US homes' annual energy use...



...or 2.8 Railcars of Coal



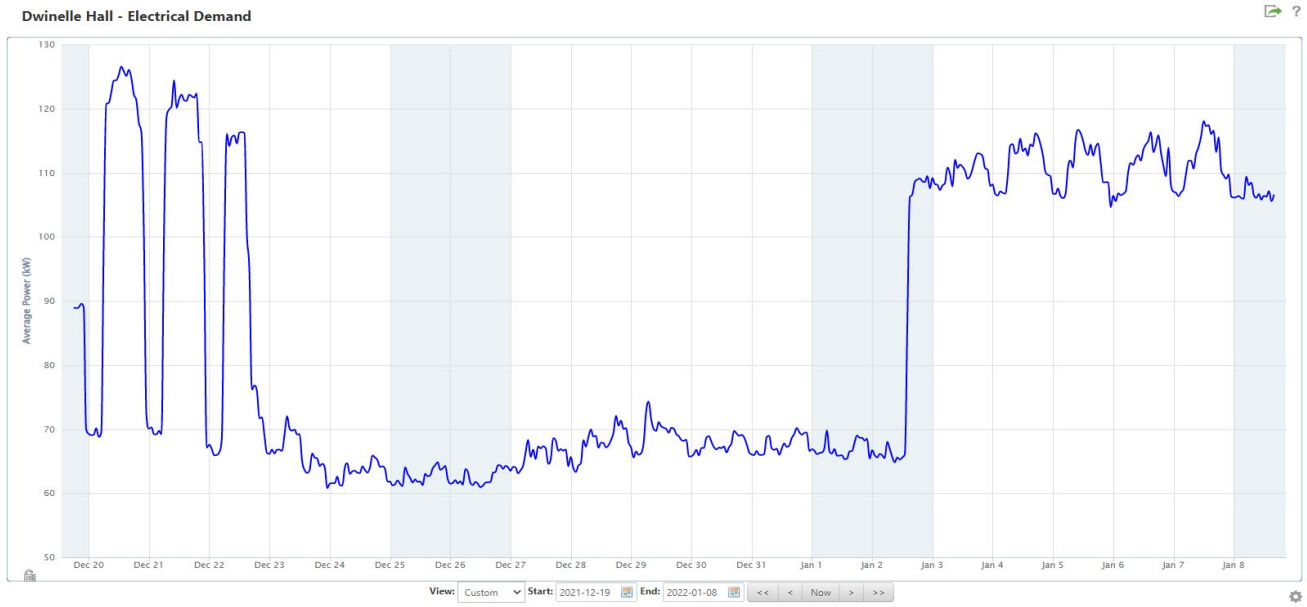
Total Campus Electric and Steam Usage



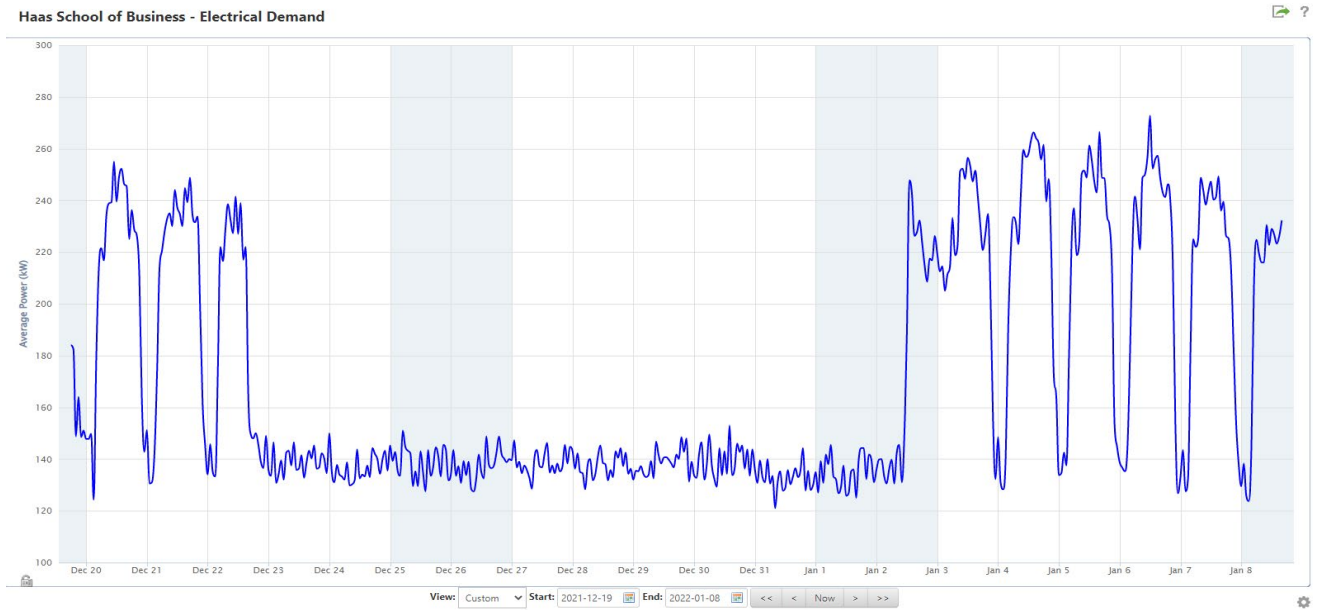
Electric Demand Reduction – Classroom Buildings

The graphs below illustrate the significant drop in energy demand (kW) during the 2021-22 winter curtailment program at four campus classroom buildings.

Dwinelle Hall

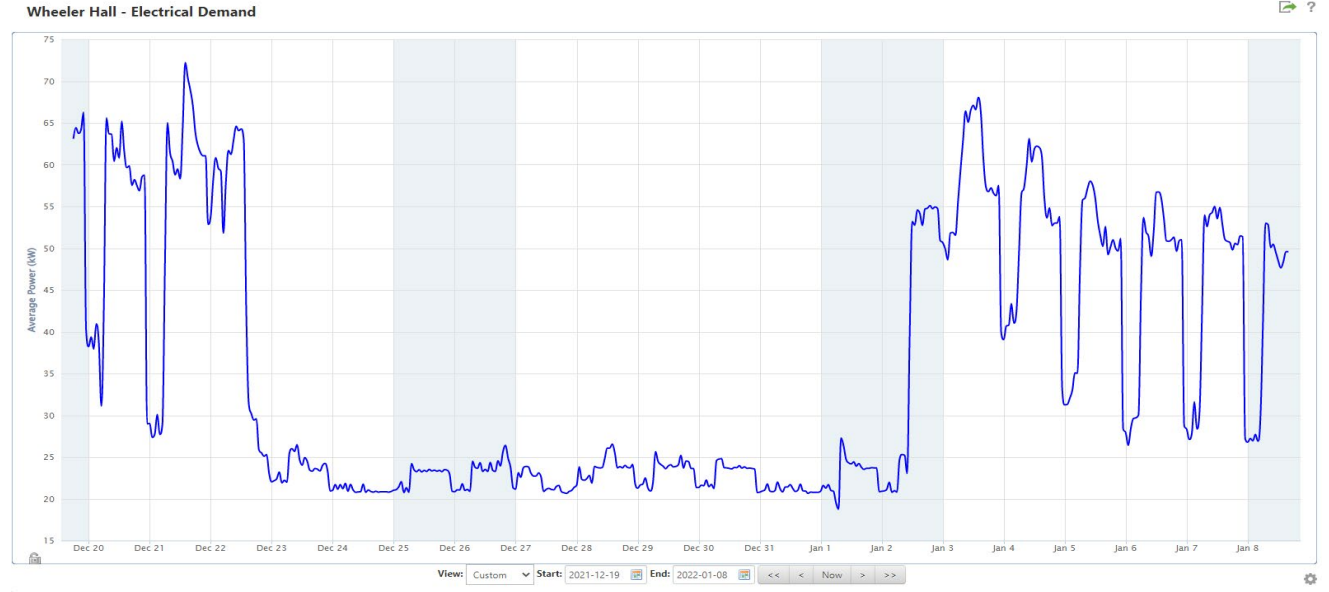


Haas School of Business



Electric Demand Reduction – Classroom Buildings (cont'd)

Wheeler



Evans

