MARCH 1, 2023

UC Davis Uses AVEVA Solutions to Reach their Sustainability Goals

AVEVA PI SYSTEM, AVEVA SYSTEM PLATFORM

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UC Davis Looking to the Future



Goals

•Reduce Energy, Gas, & Water Usage

•Achieve Carbon Neutrality by 2025

•Optimize chilled water system

•Improve HVAC scheduling

•Retrofit district steam heating





AVEVA Solutions Chosen to Achieve UC Davis Goals

AVEVA System Platform™

AVEVA PI System ™

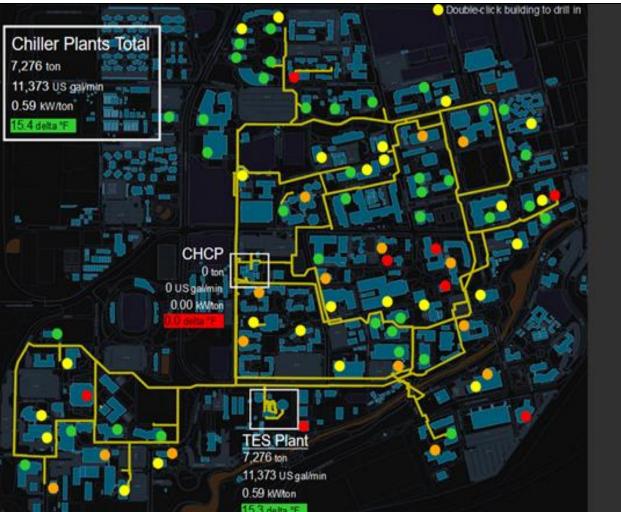


UC Davis CHCP Control Room





Building Chilled Water (CHW) Utilization



ΔT < 5°F	10	0 %	420	4 %	
ΔT = 5 - 10°F	815	11 %	2,548	22 %	
ΔT = 10 - 15°F	1,318	18 %	2,520	22 %	
ΔT > 15°F	2,752	38 %	2,911	26 %	
ΔT unknown	2,287	29 %	2,809	22 %	

Building Performance Double-click building name to drill in

Academic_Surge_Building	24.4 deta 'F	97 ton	93 US galimin	^
Activities_and_Recreation_Center	23.7 deta "F	232 ton	234 US gal/min	
Ann_EPitzer_Center	16.7 deta F	8 ton	12 US galimin	
Art_Music_&_Wright	10.4 deta "F	2 ton	4 US galimin	
Asmundson_Hall	14.3 deta 'F	32 ton	53 US galimin	
Bainer_Hall	12.9 deta "F	16 ton	30 US galimin	
Briggs_Hall	9.8 deta "F	88 ton	217 US galimin	
California_Hall	11.1 deta 'F	3 ton	7 US galimin	
Center_for_Companion_Animal_Health	11.7 deta 'F	88 ton	180 US galimin	
Central_Cage_Wash	17.0 deta 'F	22 ton	30 US galimin	
CFA_Administration_Building	10.1 deta 'F	11 ton	27 US galimin	
CFA_Mondam	7.7 delta "F	131 ton	403 US galimin	
Chemistry	3.2 deta F	O ton	0 US galimin	
Chemistry_Annex	5.4 deta "F	36 ton	161 US galimin	
Cole_B	2.9.0eta *F	0 ton	0 US galimin	
Cruess_Hall	22.0 deta 'F	20 ton	22 US galimin	
Dutton_Hall	33 1 deta "F	41 ton	25 US galimin	
Earth_and_Physical_Sciences_Building	17.7 deta F	131 ton	180 US galimin	



Preliminary Chiller Dispatch

Prior to Training



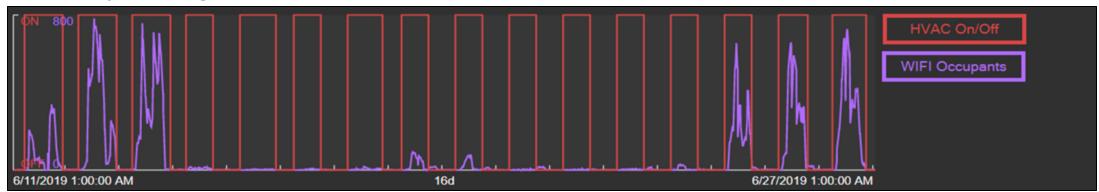


Post Training

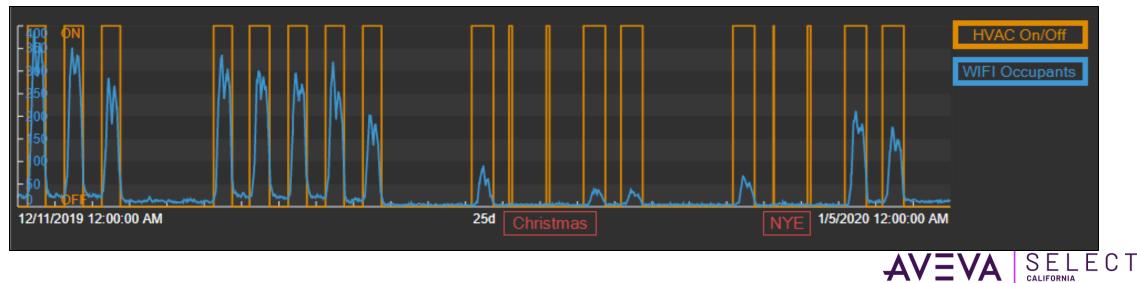


WiFi/Schedule Alerting

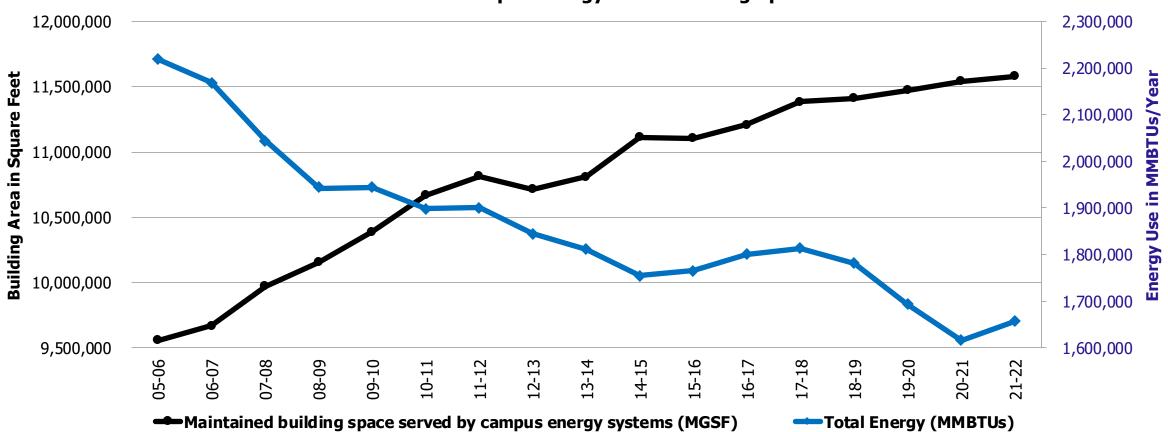
Before Optimizing HVAC



After Optimizing HVAC



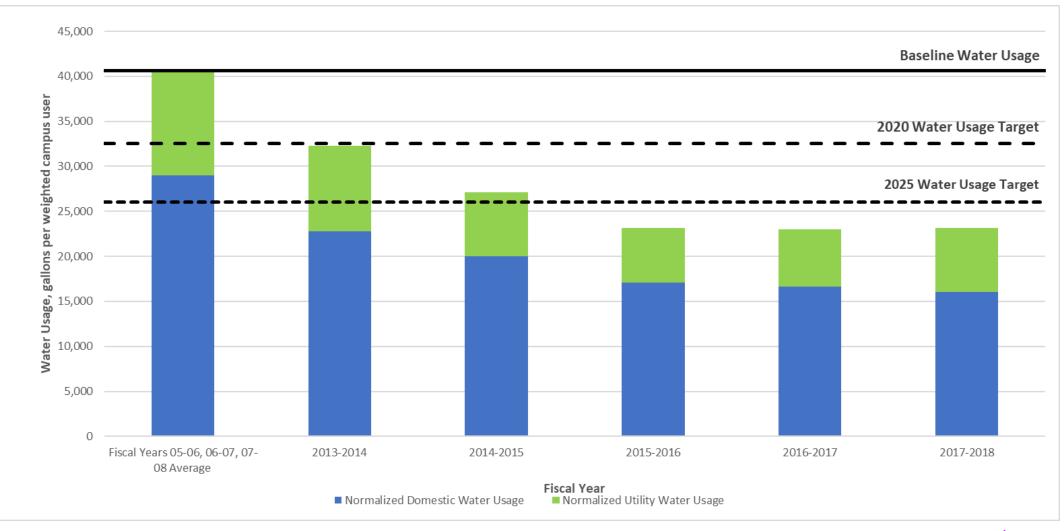




Recent on-Campus Energy Use & Building Space

AVEVA SELECT

Water Savings Results





GROWING GREEN



• 46% REDUCTION IN ENERGY USE, A SAVINGS OF \$15 MILLION

• 62% REDUCTION IN GAS USAGE, FROM HEATING SYSTEM RETROFIT

• *EXPECTED* ANNUAL SAVINGS OF **\$150,000**, FROM CHILLED WATER OPTIMIZATION

• PROJECTED SAVINGS OF **\$197 MILLION,** OVER 60 YEARS FROM SHIFT TO LOW-TEMPERATURE HOT WATER HEATING



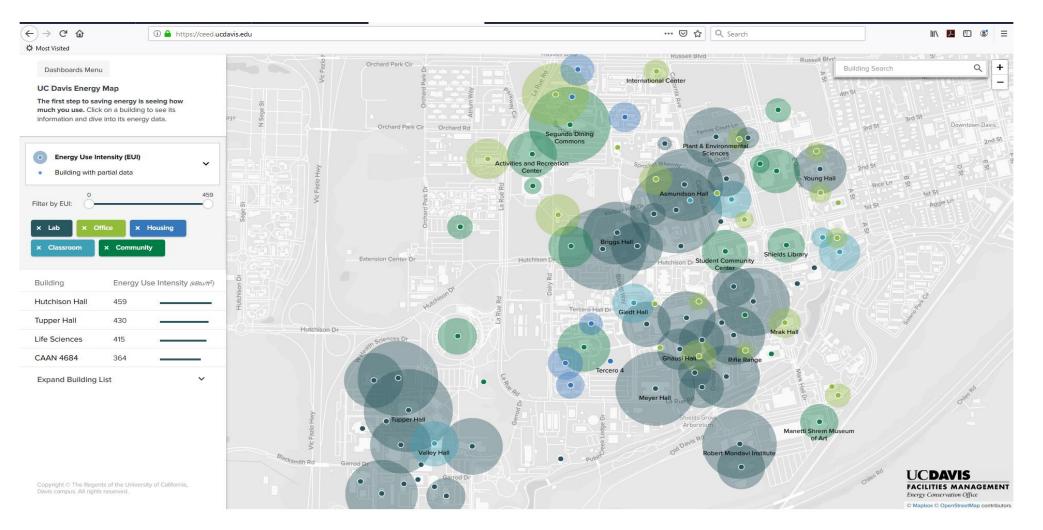
UCDAVIS

Watch this exciting UC Davis Success Story

-Hear directly from their Team-



Energy Feedback: ceed.ucdavis.edu







An Independent AVEVA Select partner

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