

Energy Cost Budget / PRM Summary

By HED

Project Name: Mechanical Engineering Building	Date: January 03, 2019
City: Urbana Champaign	Weather Data: UIUC

Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-2 ASHRAE Baseline 90.1-0			Alt-1 Proposed Desing - VAV		
		Energy 10 ⁶ Btu/yr	Proposed / Base %	Peak kBtu/h	Energy 10 ⁶ Btu/yr	Proposed / Base %	Peak kBtu/h
Lighting - Conditioned	Electricity	1,182.8	7	282	770.5	65	165
Space Heating	Electricity	14.9	0	2	15.1	101	2
	Gas	10,164.1	59	5,158	5,155.7	51	2,004
Space Cooling	Purchased Chilled Water	3,082.4	18	3,716	3,311.5	107	2,531
Pumps	Electricity	821.1	5	94	15.7	2	6
Fans - Conditioned	Electricity	744.3	4	341	552.0	74	353
Receptacles - Conditioned	Electricity	1,193.3	7	290	1,579.4	132	334
Stand-alone Base Utilities	Electricity	5.9	0	1	5.9	100	1
Total Building Consumption		17,208.8			11,405.9		

		* Alt-2 ASHRAE Baseline 90.1-0	Alt-1 Proposed Desing - VAV
Total	Number of hours heating load not met	203	192
	Number of hours cooling load not met	0	0

	* Alt-2 ASHRAE Baseline 90.1-0		Alt-1 Proposed Desing - VAV	
	Energy 10 ⁶ Btu/yr	Cost/yr \$/yr	Energy 10 ⁶ Btu/yr	Cost/yr \$/yr
Electricity	3,962.4	99,727	2,938.6	73,961
Gas	10,164.1	50,312	5,155.7	25,521
Purchased Chilled Water	3,082.4	47,715	3,311.5	51,263
Total	17,209	197,754	11,406	150,744

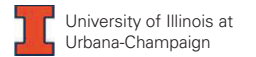
Project Name: Mechanical Engineering Building
Dataset Name: 95 CD MODEL.TRC

TRACE® 700 v6.3.4 calculated at 10:49 AM on 01/03/2019
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January 3, 2019

Mechanical Engineering Building

Renovation & Addition U12262



Department of Mechanical Sciences and Engineering

Issue for Bid Report

15 Sustainability

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