

Bernhard Project Update

January 18, 2024

Bernhard

Savings Per Improvement

Savings Per Improvement	④ Chilled Water savings	⑥ Heating Water Savings	③ AHU Savings	② DOM Water Savings	⑤ RCx Savings	① Lighting Savings	⑦ Solar Savings	Total Savings	
Total annual savings 2023	\$214,870	\$164,844	\$69,234	\$212,574	\$811,690	\$331,759	\$240,790	\$2,330,124	

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Summary Page of overall savings

Monthly Summary

University of New Orleans (UNO)

Period	Billing Period		Baseline		Actual		Utility Invoicing		Savings Target		Savings			
	Start	End	MMBtu	\$	MMBtu	\$	MMBtu	\$	MMBtu	\$	MMBtu	Reported \$	% MMBtu	% Reported
Mar 2023	3/8/2023	4/7/2023	22,715	622,942	22,386	619,282	22,386	555,978	0	0	329	3,660	1.47%	0.59%
Apr 2023	4/8/2023	5/7/2023	22,591	692,311	22,341	687,960	22,341	618,525	0	0	250	4,351	1.12%	0.63%
May 2023	5/8/2023	6/6/2023	23,272	707,814	23,261	687,710	23,261	595,828	0	0	10	20,104	0.04%	2.92%
Jun 2023	6/7/2023	7/7/2023	24,911	764,831	22,962	712,885	22,962	663,100	340	9,115	1,950	51,947	8.49%	7.29%
Jul 2023	7/8/2023	8/6/2023	25,545	769,222	25,360	738,213	25,360	725,213	730	19,559	185	31,009	0.73%	4.20%
Aug 2023	8/7/2023	9/6/2023	26,013	799,652	26,637	774,006	26,637	740,484	1,119	30,003	-624	25,645	-2.34%	3.31%
Sep 2023	9/7/2023	10/7/2023	24,458	777,017	22,019	714,147	22,019	689,389	1,509	40,447	2,439	62,870	11.08%	8.80%
Oct 2023	10/8/2023	11/5/2023	22,027	661,471	20,412	591,907	20,412	622,303	1,898	50,891	1,615	69,564	7.91%	11.75%
Nov 2023	11/6/2023	12/5/2023	22,579	666,806	20,091	582,179	20,091	586,886	2,323	62,267	2,488	84,627	12.39%	14.54%
Annual Total			214,111	6,462,066	205,468	6,108,289	205,468	5,797,705	7,919	212,284	8,643	353,777	4.21%	5.79%



- MONTH and YEAR: The assigned MONTH and YEAR for reporting each invoice period
- BILLING PERIOD: The Start and End date of the invoice period
- BASELINE: The BASELINE ENERGY is a weather normalized historical consumption used to calculate savings. Each baseline equation and historical period is defined in the M&V plan. The BASELINE COST is the BASELINE ENERGY times the Stipulated Utility Rate as defined in the M&V plan.
- ACTUAL: The actual energy is actual consumption used to calculate savings. The actual cost is actual energy times the stipulated utility rate as defined in the M&V plan
- UTILITY INVOICE: The actual consumption and cost on the Utility Invoice for the billing period
- SAVINGS TARGET: The savings target is the expected savings based on construction schedule and savings potential for each month
- SAVING ENERGY: The savings energy is the BASELINE ENERGY - the ACTUAL ENERGY
- SAVINGS REPORTED: The savings reported is the BASELINE COST - ACTUAL COST
- SAVINGS % MMBtu : The savings % MMBtu is the MMBtu savings as a percentage of the actual consumption
- SAVINGS %: The savings % is the reported savings as a percentage of actual cost

Summary Page of overall savings

Period	Billing Period		Savings Target		Savings			
	Start	End	MMBtu	\$	MMBtu	Reported \$	% MMBtu	% Reported
Mar 2023	3/8/2023	4/7/2023	0	0	329	3,660	1.47%	0.59%
Apr 2023	4/8/2023	5/7/2023	0	0	250	4,351	1.12%	0.63%
May 2023	5/8/2023	6/6/2023	0	0	10	20,104	0.04%	2.92%
Jun 2023	6/7/2023	7/7/2023	340	9,115	1,950	51,947	8.49%	7.29%
Jul 2023	7/8/2023	8/6/2023	730	19,559	185	31,009	0.73%	4.20%
Aug 2023	8/7/2023	9/6/2023	1,119	30,003	-624	25,645	-2.34%	3.31%
Sep 2023	9/7/2023	10/7/2023	1,509	40,447	2,439	62,870	11.08%	8.80%
Oct 2023	10/8/2023	11/5/2023	1,898	50,891	1,615	69,564	7.91%	11.75%
Nov 2023	11/6/2023	12/5/2023	2,323	62,267	2,488	84,627	12.39%	14.54%
Annual Total			7,919	212,284	8,643	353,777	4.21%	5.79%



Year over Year Utility Spend

Date	\$	Date	\$	Rate Savings (\$)	Bernhard ECM Savings (\$)	Total Savings (\$)
3/1/2022	686,746	3/1/2023	596,846	86,239	3,660	89,899
4/1/2022	744,173	4/1/2023	655,095	84,727	4,351	89,079
5/1/2022	788,741	5/1/2023	642,510	126,127	20,104	146,230
6/1/2022	866,656	6/1/2023	711,799	102,910	51,947	154,856
7/1/2022	876,766	7/1/2023	796,950	48,806	31,009	79,816
8/1/2022	832,156	8/1/2023	778,117	28,394	25,645	54,039
9/1/2022	921,910	9/1/2023	732,440	126,600	62,870	189,470
10/1/2022	812,469	10/1/2023	647,211	165,258		165,258
	\$ 7,651,284		\$ 6,949,688	\$ 502,010	\$ 199,586	\$ 701,597

- Year to date for 2023 the Utility Spend has been \$701,597 less than 2022
- January and Feb of 2023 is prior to Bernhard's engagement
- \$502,010 of that is due to lower utility rates due to a reduction in fuel cost that started in late 2022
- \$199,586 is due to the ECMs implemented due to Bernhard's involvement and reduction in consumption as of September.