



# Energy Use in State Facilities

## Fiscal Year 2023 Report

Final Report – June 18, 2024

Facilities include:

Universities of Wisconsin  
Department of Administration  
Department of Corrections  
Department of Health Services  
Department of Veterans Affairs  
Department of Public Instruction  
Department of Natural Resources  
Department of Transportation

# Wisconsin Office of Energy Innovation

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## Energy Use in State-Owned Facilities

Universities of Wisconsin  
Department of Administration  
Department of Corrections  
Department of Health Services  
Department of Public Instruction  
Department of Veterans Affairs  
Department of Natural Resources  
Department of Transportation

Report for Fiscal Year 2023

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# Acknowledgements

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This report was prepared for the Wisconsin Office of Energy Innovation with supporting documentation provided by the following agencies:

Universities of Wisconsin  
Department of Administration  
Department of Corrections  
Department of Health Services  
Department of Public Instruction  
Department of Veterans Affairs  
Department of Natural Resources  
Department of Transportation

Agency and facility energy coordinators deserve special mention not only for supplying needed data, but more importantly, for being personally involved in the energy conservation programs that have achieved the results documented on the following pages.

This material is based upon work supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) under the State Energy Program Award Number DE-EE0008669.

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Energy information was compiled, and report prepared, by Innovative Business Engineering, McFarland, Wisconsin.

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# Executive Summary

Wisconsin’s efforts to reduce energy consumption and costs in state-owned facilities began as a result of the rapid energy cost increases following the first foreign oil embargo in 1973. Energy conservation and energy management efforts have received continued support from the Governor, the State Building Commission and the Wisconsin Legislature. The rate of annual energy use in state facilities has been reduced 37.36 percent since 1973.

This report refers to Fiscal Year 2005 (FY2005 or FY05) as a baseline comparison year and adjusted for weather to reflect renewed energy conservation efforts as part of the Wisconsin Act 141 and the Energy Bond Fund Program. The FY2023 rate of annual energy use in state facilities was 22.08 percent less than FY2005 baseline when adjusted for weather:

Agency	Agency Name	FY05 Base Btu/GSF/Yr	FY23 Weather Adjusted Btu/GSF/Yr	FY23 % Change from FY05 Base
UW	Universities of Wisconsin	206,711	155,746	-24.66%
DOA	Department of Administration	157,840	116,711	-26.06%
DOC	Department of Corrections	178,132	158,702	-10.91%
DHS	Department of Health Services	204,184	174,363	-14.61%
DPI	Department of Public Instruction	98,001	94,712	-3.36%
DVA	Department of Veterans Affairs	197,411	205,992	4.35%
DNR	Department of Natural Resources	111,053	82,900	-25.35%
DOT	Department of Transportation	106,355	66,536	-37.44%
State	Above Statewide Totals	198,390	154,585	-22.08%

The success of the state’s energy and fuel management efforts are directly dependent on efforts of the many people who operate and maintain the central plants and distribution systems, as well as those managers and occupants of individual buildings. The Wisconsin State Energy Office and Department of Administration have lead roles in developing and overseeing these efforts. *Note that the second half of FY2021 energy use was impacted by Covid-19 shutdowns and unoccupied facilities with increased in FY2022 as building operations and occupancy returned to pre-Covid levels.*

### ENERGY EXPENDITURES INCREASE DESPITE CONSERVATION EFFORTS

Energy expenditures in Wisconsin State Government facilities totaled \$279 million in FY2023, including sewer and water utilities. This total includes all buildings (not just those represented in this report) and includes expenditures for electricity, natural gas, solid fuels, sewer, water, propane and fuel oil. The FY2023 energy expenditures represented a 21 percent increase over FY2022 with a 34% increase in natural gas expenditures. In addition, FY2023 electrical energy unit costs (\$/kwh) increased by more than 7 percent while unit natural gas costs (\$/MMBtu) increased by 64 percent in FY22 compared to FY21. FY2023 natural gas costs (\$/MMBtu) approximately equal to last fiscal year (FY2022).

The Energy Use in State Facilities Reports are updated from time-to-time to reflect updated utility data, accounting data and state agency building information/area (Gross Square Feet) input. Please refer to <https://psc.wi.gov/Pages/ServiceType/OEI/WisconsinEnergyStatistics.aspx> for the latest and updated Energy Use in State Facilities Reports.

# Introduction

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## BACKGROUND

This report presents total energy consumption for the largest State of Wisconsin owned and operated major facilities. These facilities account for the majority of energy consumed in buildings owned by the State of Wisconsin. Statewide, agency, and individual facility energy consumption totals are presented. Values for each agency reflect buildings owned but not necessarily occupied by that agency. Agencies addressed in this report include the following: Department of Public Instruction (DPI), Universities of Wisconsin (UWS), Department of Health Services (DHS), Department of Corrections (DOC), Department of Veterans Affairs (DVA), Department of Administration (DOA), Department of Natural Resources (DNR); and Department of Transportation (DOT).

Providing detailed facility level data proved to be a challenge. In many cases, accounting systems did not readily lend themselves to compiling the required data. The State Energy Office will continue to work to expand the detail and completeness of future reports. Buildings not included in this report are thousands of other smaller facilities ranging from utility buildings, comfort stations to park offices and farm buildings.

## ENERGY USE MEASUREMENT

Two common ways to account for energy use are end-use energy consumption and resource energy consumption. End-use consumption refers to the energy content of fuel, steam, or electricity at the point of use by the consumer. Resource energy consumption is equal to end-use consumption plus all energy used in the production and transportation of the fuel, steam or electricity. This report is based on end-use energy consumption to coincide with reports from other sources.

State monitored energy consumption is broken down into two categories:

- 1) **Electricity**, which represents total purchased and central plant co-generated electricity; and
- 2) **Thermal or Fossil Fuel**, which includes coal, gas, oil, purchased steam and renewable wood/paper fuel pellets used in central plants or in building boilers to generate steam and other resources such as hot water, chilled water, electricity, and compressed air.

Energy consumption in these categories is monitored through coordination of monthly utilities billings and fuel consumption reports.

All forms of energy consumption are converted to units of Btu/GSF/year. The conversion also removes any variation in energy use over time caused by changes in the size of an individual facility. Electricity consumption is converted from metered kWh to Btu/GSF/Year by multiplying the total fiscal year metered kWh of electricity by 3,413 (Btu/kwh standard conversion factor), and then dividing the resulting number by the gross square footage (GSF) of serviced building area. Fossil fuel energy use is converted to units of Btu/GSF/Year by dividing the Btu value of the fossil fuel category consumption by the gross square footage of serviced building area.

## WEATHER FACTORS AFFECTING ENERGY USE

Weather has a significant impact upon energy consumption and should be considered when evaluating efficiencies. Annual heating and cooling degree days can change dramatically from location to location and year to year. Such changes can significantly impact the demand upon heating and cooling systems of a facility. Appendix A and Appendix B present weather adjustments and degree days for selected Wisconsin locations.

# Statewide Energy Use Summary

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## SCOPE

Includes the major facilities in eight state agencies. Agencies and facilities are discussed individually in this report.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 22.1 percent decrease**

Includes the major facilities in eight state agencies. Agencies and facilities are discussed individually in this report.

**Latest Year Change - Weather Adjusted: 0.4 percent increase**

Energy use (BTU/GSF/Yr) for FY23 increase 0.4 percent from the previous fiscal year, FY23.

***Average Annual Change - Weather Adjusted: 1.5 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 1.5 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 16 percent increase.***

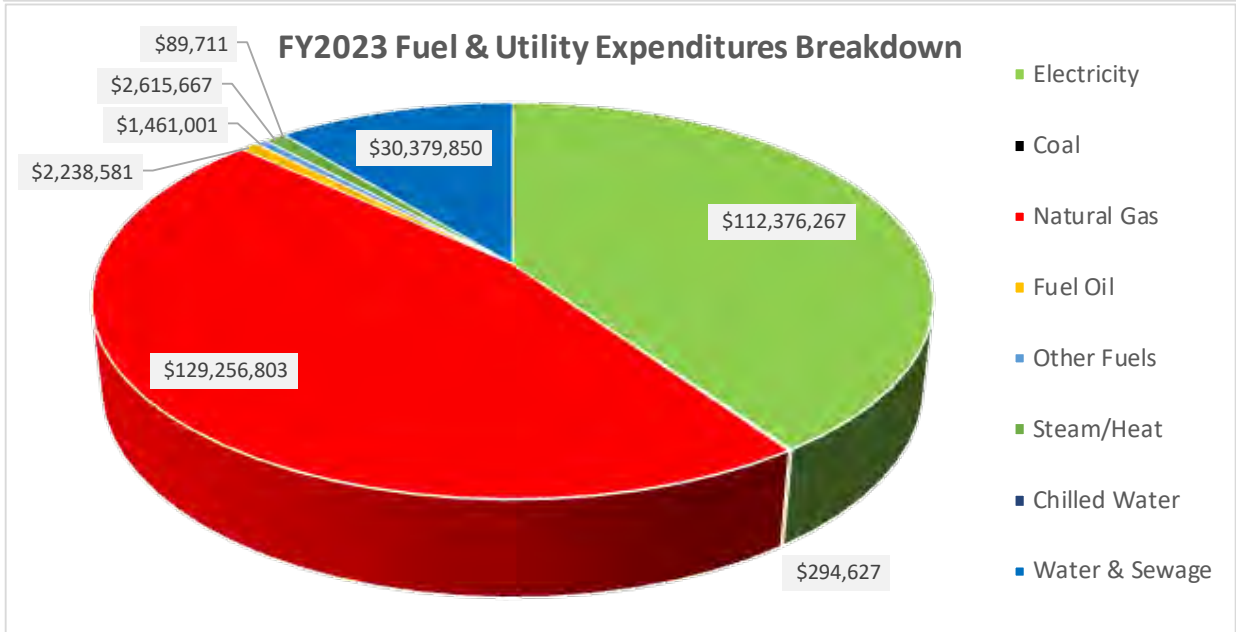
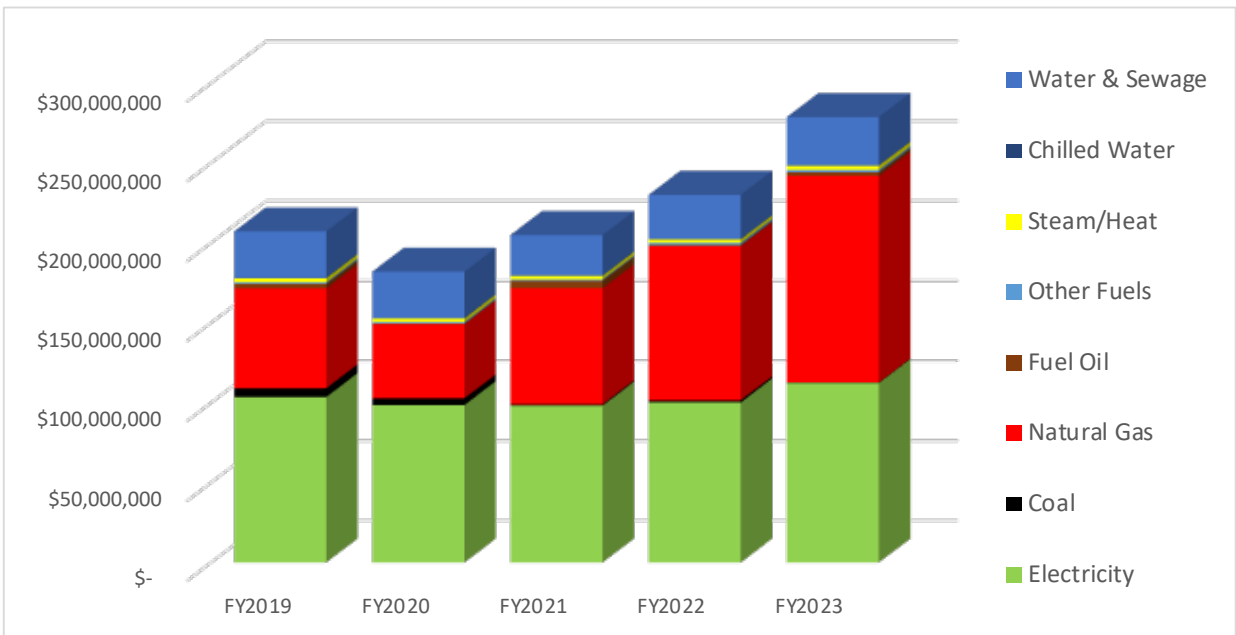
Gross square footage (GSF) has increased 16% from the base fiscal year, FY05.

***Consumption Change from Base: 9.3 percent decrease.***

Total consumption was 9.3 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 9.6 percent less than in the base year when adjusted for weather compared to FY05.

**State of Wisconsin Totals**

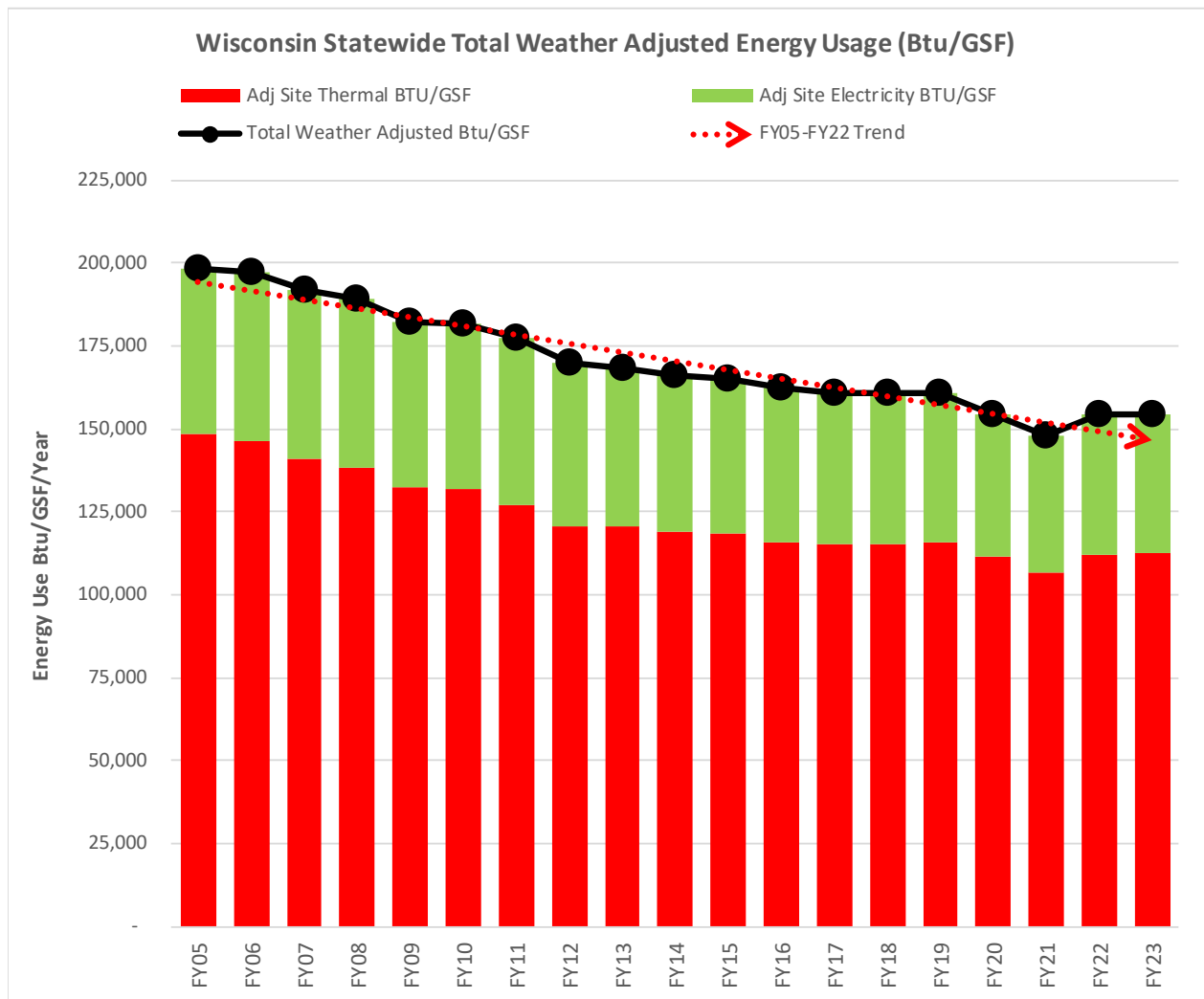
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 103,557,309	\$ 98,471,311	\$ 98,196,226	\$ 100,181,485	\$ 112,376,267
Coal	\$ 5,449,660	\$ 4,248,393	\$ 684,237	\$ 1,288,572	\$ 294,627
Natural Gas	\$ 62,480,152	\$ 46,397,008	\$ 72,698,517	\$ 96,565,762	\$ 129,256,803
Fuel Oil	\$ 2,758,308	\$ 276,176	\$ 4,703,740	\$ 496,520	\$ 2,238,581
Other Fuels	\$ 1,057,503	\$ 1,085,885	\$ 899,878	\$ 1,486,210	\$ 1,461,001
Steam/Heat	\$ 2,614,625	\$ 2,174,515	\$ 2,190,633	\$ 2,138,168	\$ 2,615,667
Chilled Water	\$ 84,975	\$ 93,703	\$ 59,721	\$ 69,047	\$ 89,711
Water & Sewage	\$ 29,148,285	\$ 29,191,079	\$ 25,451,081	\$ 27,800,075	\$ 30,379,850
<b>Total Utilities</b>	<b>\$ 207,150,817</b>	<b>\$ 181,938,070</b>	<b>\$ 204,884,033</b>	<b>\$ 230,025,839</b>	<b>\$ 278,712,506</b>





**Statewide Facilities Total Fiscal Year 2023 Total State Agency Total (FY05 Base)**

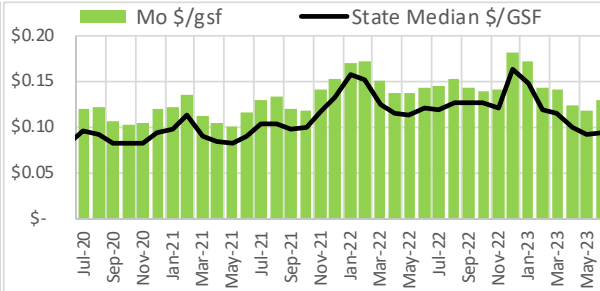
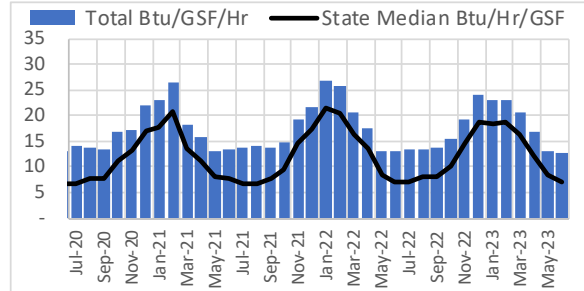
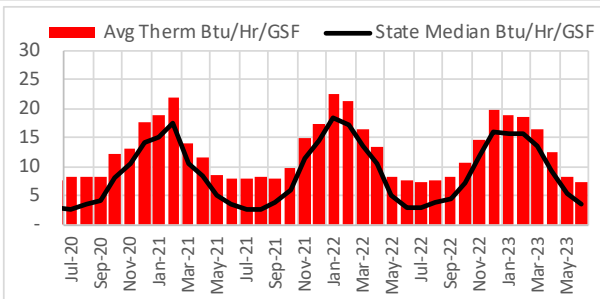
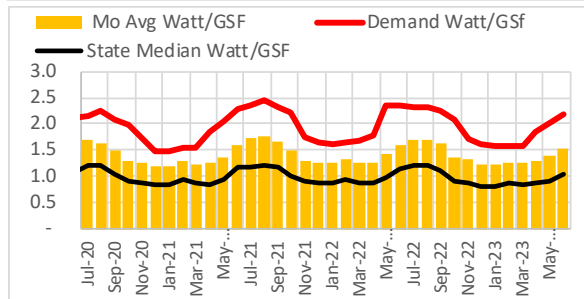
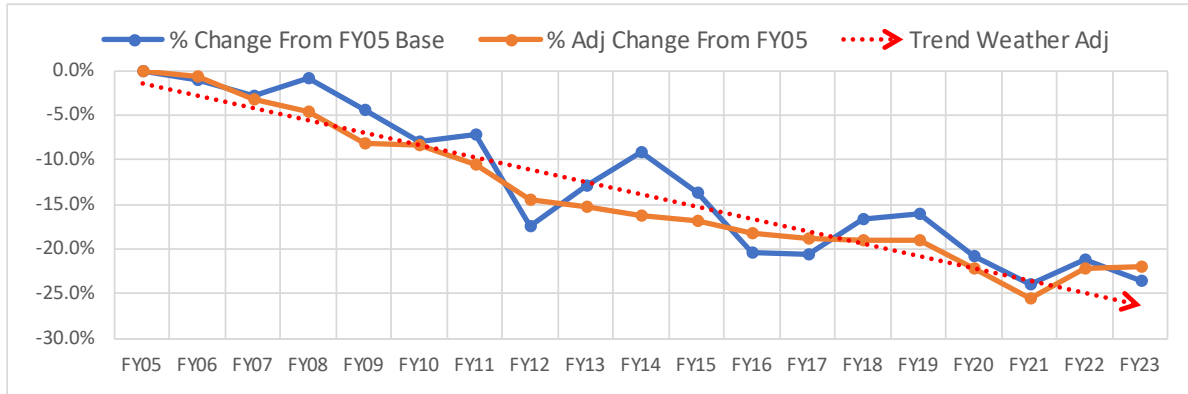
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	64,753,150	148,686	49,704	198,390	0.0%	47.05	100.0%	100.0%	198,390	0.0%
FY06	65,405,533	145,097	51,086	196,183	-1.1%	48.17	100.8%	99.5%	197,034	-0.7%
FY07	66,508,886	141,908	50,876	192,785	-2.8%	47.10	99.4%	99.8%	191,882	-3.3%
FY08	67,703,290	145,897	50,932	196,829	-0.8%	45.46	94.9%	99.6%	189,166	-4.6%
FY09	68,186,861	139,820	49,815	189,636	-4.4%	44.84	94.6%	100.0%	181,998	-8.3%
FY10	68,774,525	133,168	49,479	182,648	-7.9%	46.76	99.1%	100.3%	181,664	-8.4%
FY11	69,655,003	133,843	50,379	184,223	-7.1%	45.88	95.1%	99.6%	177,403	-10.6%
FY12	71,400,599	114,015	49,671	163,686	-17.5%	50.67	105.9%	98.6%	169,719	-14.5%
FY13	72,698,283	124,822	47,863	172,685	-13.0%	46.20	96.5%	99.7%	168,206	-15.2%
FY14	73,275,335	132,656	47,479	180,134	-9.2%	43.28	89.6%	99.7%	166,117	-16.3%
FY15	73,553,273	124,575	46,752	171,327	-13.6%	44.80	94.9%	100.2%	165,093	-16.8%
FY16	74,064,464	111,322	46,717	158,039	-20.3%	48.89	104.1%	99.4%	162,377	-18.2%
FY17	74,080,246	111,225	46,295	157,520	-20.6%	49.21	103.7%	98.7%	161,028	-18.8%
FY18	73,838,150	119,660	45,532	165,192	-16.7%	46.05	96.2%	99.8%	160,614	-19.0%
FY19	74,054,921	121,591	44,753	166,344	-16.2%	45.20	95.3%	100.0%	160,617	-19.0%
FY20	74,749,271	114,355	42,821	157,176	-20.8%	46.24	97.7%	100.1%	154,541	-22.1%
FY21	75,060,520	109,698	41,179	150,877	-23.9%	46.25	97.5%	99.3%	147,892	-25.5%
FY22	74,879,851	113,255	43,140	156,395	-21.2%	47.32	99.0%	98.3%	154,483	-22.1%
FY23	75,112,842	109,621	42,137	151,758	-23.5%	48.63	102.9%	99.2%	154,585	-22.1%



**Statewide Facilities Total Fiscal Year 2023 Total State Agency Total (FY05 Base)**

FY22 Electric kwh/GSF = 12.35		FY22 Therm/GSF = 1.10		FY22 Total Btu/GSF = 151,758		05-22 Thm -24.1%				
FY22 Electric \$/GSF = \$ 1.25		FY22 Thermal \$/GSF = \$ 0.77		FY22 Energy \$/GSF = \$ 2.02		05-22 kwh -15.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
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FY23	75,112,842	109,621	42,137	151,758	-23.5%	48.63	102.9%	99.2%	154,585	-22.1%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

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## SCOPE

Includes 13-four year university campuses: UW-Eau Claire; UW-Green Bay; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Oshkosh; UW-Parkside; UW-Platteville; UW-River Falls; UW-Stevens Point; UW-Stout; UW-Superior; and UW-Whitewater.

Also, includes 13 two-year college campuses: UW-Platteville, Baraboo Sauk County; UW-Eau Claire, Barron County; UW-Oshkosh, Fond du Lac; UW-Oshkosh, Fox Cities; UW-Green Bay, Manitowoc; UW-Stevens Point, Wausau; UW-Green Bay, Marinette; UW-Stevens Point, Wausau; UW-Platteville, Richland; UW-Whitewater, Rock County; UW-Green Bay, Sheboygan; UW-Milwaukee, Washington County; and UW-Milwaukee, Waukesha.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 24.7 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 0.4 percent increase**

Energy use (BTU/GSF/Yr) for FY23 increase 0.4 percent from the previous fiscal year, FY22.

***Average Annual Change - Weather Adjusted: 1.6 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 1.6 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 22.7 percent increase.***

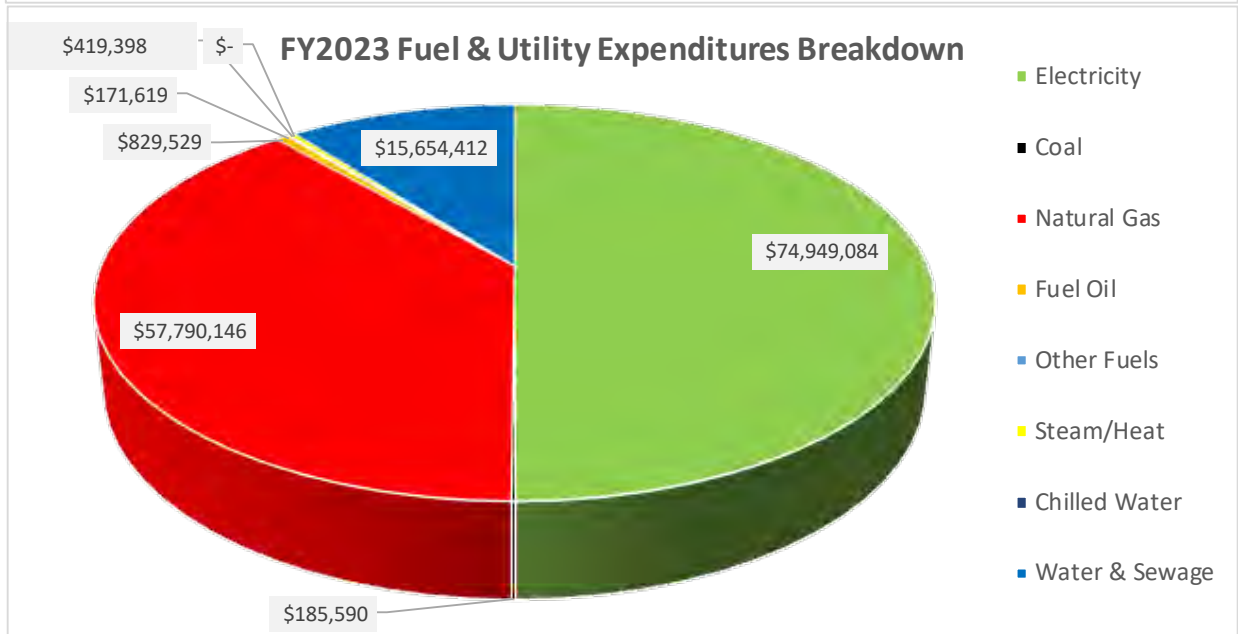
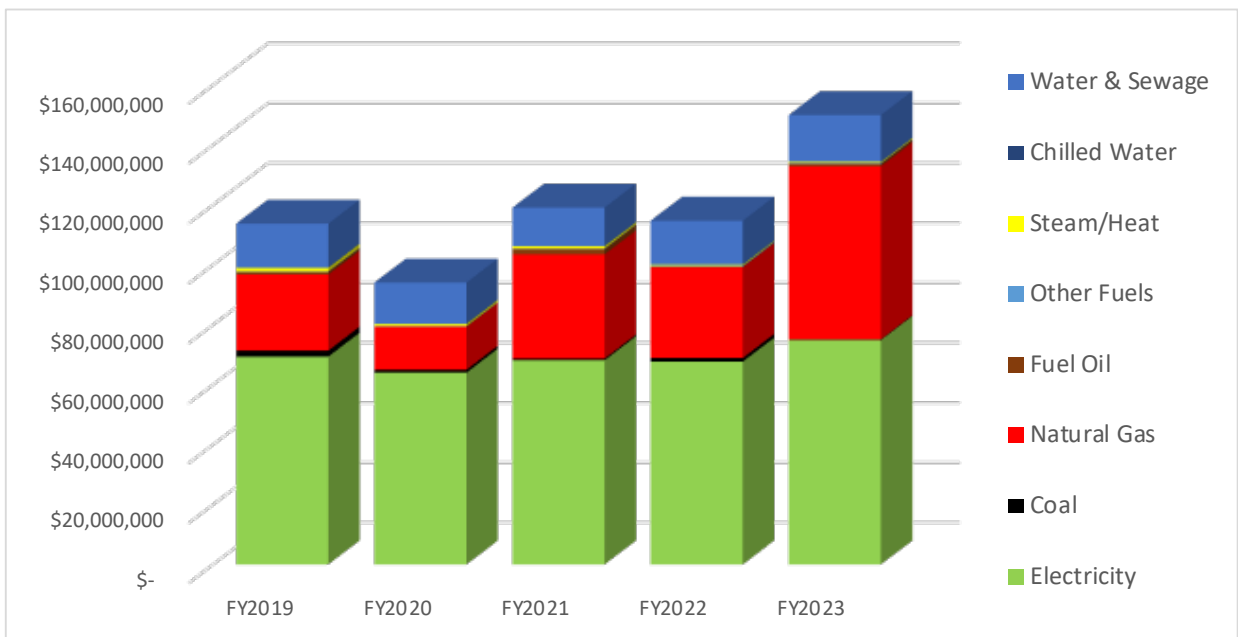
Gross square footage (GSF) has increased 22.7% from the base fiscal year, FY05.

***Consumption Change from Base: 5.1 percent decrease.***

Total consumption was 5.1 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 7.6 percent less than in the base year when adjusted for weather compared to FY05.

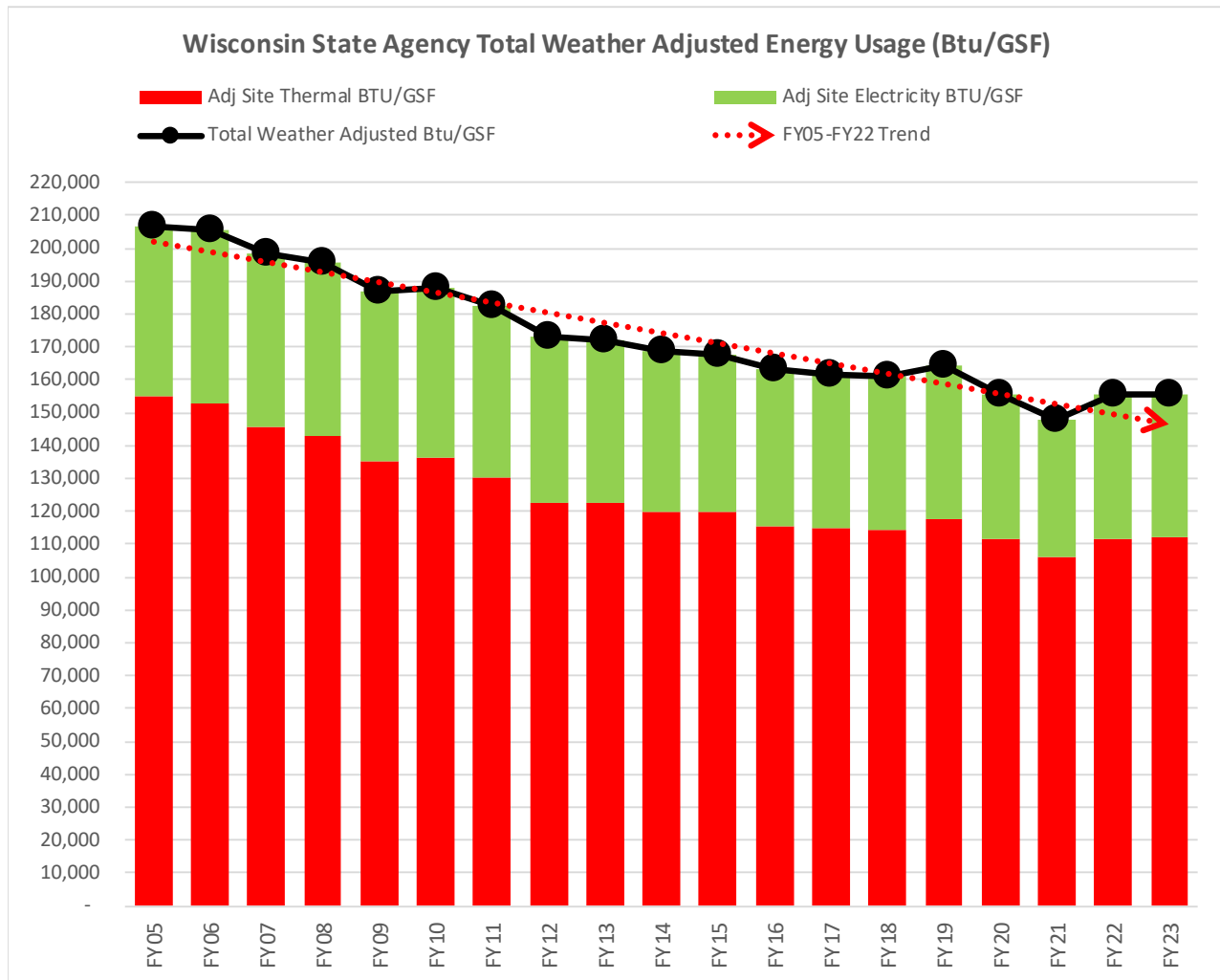
**University of Wisconsin System**

Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 69,356,196	\$ 64,024,188	\$ 68,187,676	\$ 67,683,837	\$ 74,949,084
Coal	\$ 2,022,398	\$ 951,408	\$ 494,049	\$ 1,227,232	\$ 185,590
Natural Gas	\$ 25,347,644	\$ 14,373,188	\$ 34,801,801	\$ 30,327,856	\$ 57,790,146
Fuel Oil	\$ 929,650	\$ 67,154	\$ 1,837,870	\$ 118,006	\$ 829,529
Other Fuels	\$ 164,377	\$ 114,383	\$ 150,674	\$ 333,127	\$ 171,619
Steam/Heat	\$ 1,177,034	\$ 737,717	\$ 741,135	\$ 373,200	\$ 419,398
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 14,725,726	\$ 13,792,165	\$ 12,870,545	\$ 14,654,268	\$ 15,654,412
<b>Total Utilities</b>	<b>\$ 113,723,025</b>	<b>\$ 94,060,202</b>	<b>\$ 119,083,751</b>	<b>\$ 114,717,525</b>	<b>\$ 149,999,780</b>



### UW Fiscal Year 2023 Total State Agency Total (FY2005 Base)

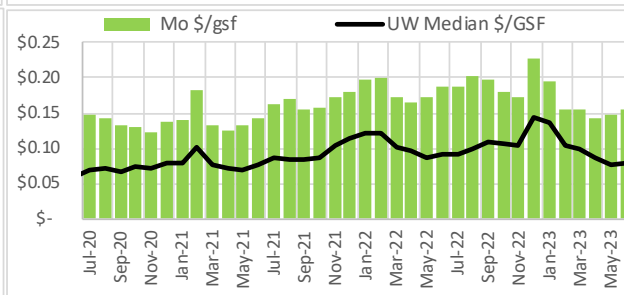
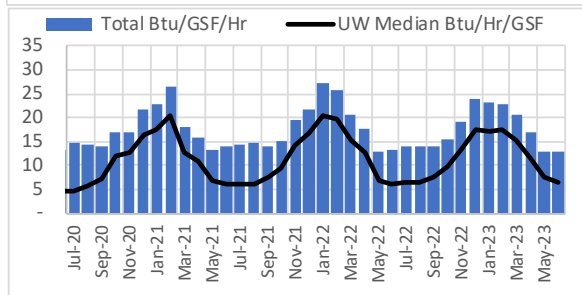
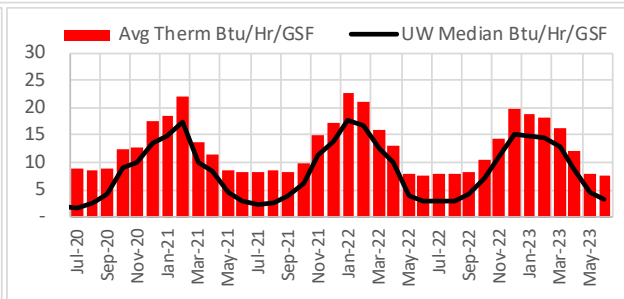
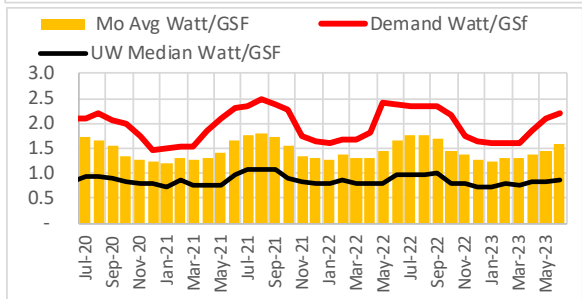
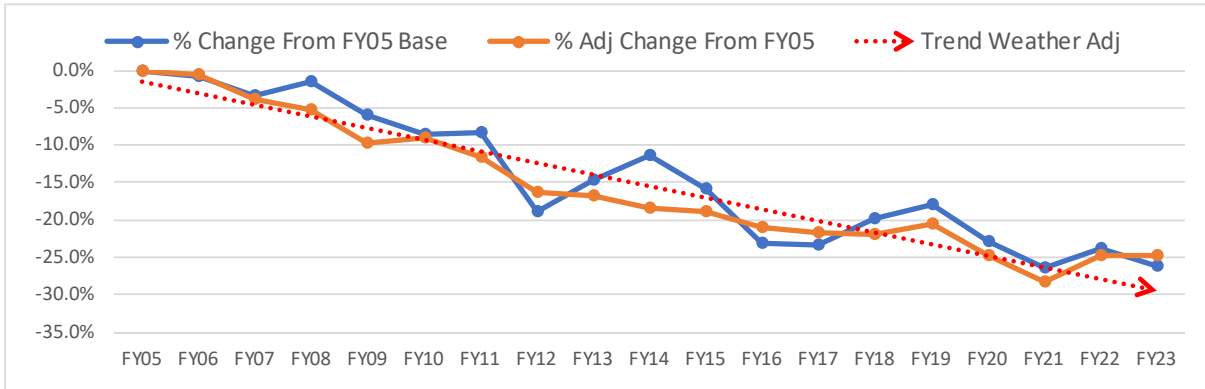
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	46,655,255	155,225	51,486	206,711	0.0%	46.46	100.0%	100.0%	206,711	0.0%
FY06	47,261,328	151,762	53,242	205,004	-0.8%	47.79	100.6%	99.5%	205,690	-0.5%
FY07	48,307,694	146,908	52,866	199,775	-3.4%	46.78	99.3%	99.8%	198,647	-3.9%
FY08	49,502,098	150,890	52,653	203,543	-1.5%	44.96	94.9%	99.7%	195,679	-5.3%
FY09	50,134,229	142,932	51,396	194,328	-6.0%	44.28	94.6%	100.1%	186,684	-9.7%
FY10	50,622,897	137,478	51,538	189,017	-8.6%	46.42	99.1%	100.3%	187,939	-9.1%
FY11	51,475,349	137,050	52,528	189,578	-8.3%	45.32	95.0%	99.8%	182,536	-11.7%
FY12	53,330,388	116,087	51,548	167,635	-18.9%	50.17	105.5%	98.4%	173,251	-16.2%
FY13	54,571,090	126,990	49,422	176,412	-14.7%	45.57	96.5%	99.8%	171,914	-16.8%
FY14	55,395,590	134,413	48,750	183,163	-11.4%	42.62	89.3%	99.8%	168,709	-18.4%
FY15	55,807,601	125,985	47,946	173,931	-15.9%	44.32	95.0%	100.2%	167,660	-18.9%
FY16	56,318,792	111,147	47,877	159,023	-23.1%	48.46	104.1%	99.3%	163,285	-21.0%
FY17	56,334,574	111,090	47,398	158,488	-23.3%	48.80	103.4%	98.7%	161,698	-21.8%
FY18	56,143,320	119,253	46,677	165,929	-19.7%	45.60	96.1%	99.9%	161,279	-22.0%
FY19	56,125,576	123,627	46,234	169,861	-17.8%	44.74	95.3%	100.1%	164,102	-20.6%
FY20	56,819,926	115,344	43,900	159,244	-23.0%	43.45	96.9%	100.2%	155,769	-24.6%
FY21	57,131,175	109,644	42,298	151,942	-26.5%	43.55	96.7%	99.5%	148,065	-28.4%
FY22	56,998,506	113,058	44,673	157,732	-23.7%	46.87	98.9%	98.2%	155,703	-24.7%
FY23	57,231,497	109,005	43,811	152,816	-26.1%	49.03	103.1%	99.0%	155,746	-24.7%



### UW Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 12.84		FY23 Therm/GSF = 1.09		FY23 Total Btu/GSF = 152,816		05-23 Thm -27.6%				
FY23 Electric \$/GSF = \$ 1.38		FY23 Thermal \$/GSF = \$ 0.74		FY23 Energy \$/GSF = \$ 2.12		05-23 kwh -15.7%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	46,655,255	155,225	51,486	206,711	0.0%	46.46	100.0%	100.0%	206,711	0.0%
FY06	47,261,328	151,762	53,242	205,004	-0.8%	47.79	100.6%	99.5%	205,690	-0.5%
FY07	48,307,694	146,908	52,866	199,775	-3.4%	46.78	99.3%	99.8%	198,647	-3.9%
FY08	49,502,098	150,890	52,653	203,543	-1.5%	44.96	94.9%	99.7%	195,679	-5.3%
FY09	50,134,229	142,932	51,396	194,328	-6.0%	44.28	94.6%	100.1%	186,684	-9.7%
FY10	50,622,897	137,478	51,538	189,017	-8.6%	46.42	99.1%	100.3%	187,939	-9.1%
FY11	51,475,349	137,050	52,528	189,578	-8.3%	45.32	95.0%	99.8%	182,536	-11.7%
FY12	53,330,388	116,087	51,548	167,635	-18.9%	50.17	105.5%	98.4%	173,251	-16.2%
FY13	54,571,090	126,990	49,422	176,412	-14.7%	45.57	96.5%	99.8%	171,914	-16.8%
FY14	55,395,590	134,413	48,750	183,163	-11.4%	42.62	89.3%	99.8%	168,709	-18.4%
FY15	55,807,601	125,985	47,946	173,931	-15.9%	44.32	95.0%	100.2%	167,660	-18.9%
FY16	56,318,792	111,147	47,877	159,023	-23.1%	48.46	104.1%	99.3%	163,285	-21.0%
FY17	56,334,574	111,090	47,398	158,488	-23.3%	48.80	103.4%	98.7%	161,698	-21.8%
FY18	56,143,320	119,253	46,677	165,929	-19.7%	45.60	96.1%	99.9%	161,279	-22.0%
FY19	56,125,576	123,627	46,234	169,861	-17.8%	44.74	95.3%	100.1%	164,102	-20.6%
FY20	56,819,926	115,344	43,900	159,244	-23.0%	43.45	96.9%	100.2%	155,769	-24.6%
FY21	57,131,175	109,644	42,298	151,942	-26.5%	43.55	96.7%	99.5%	148,065	-28.4%
FY22	56,998,506	113,058	44,673	157,732	-23.7%	46.87	98.9%	98.2%	155,703	-24.7%
FY23	57,231,497	109,005	43,811	152,816	-26.1%	49.03	103.1%	99.0%	155,746	-24.7%

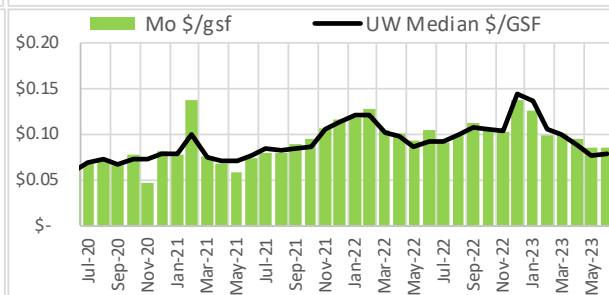
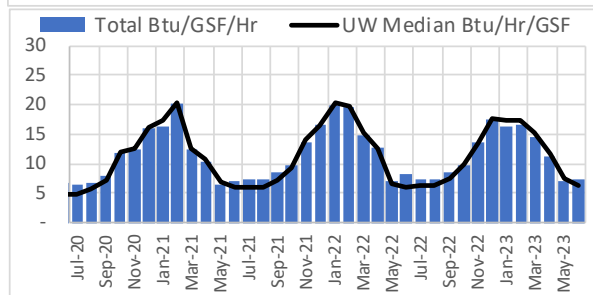
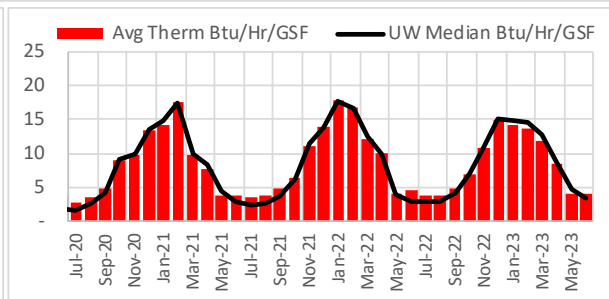
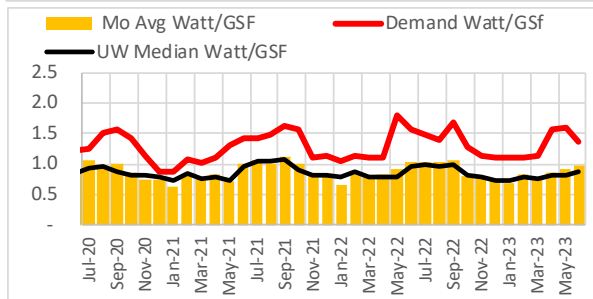
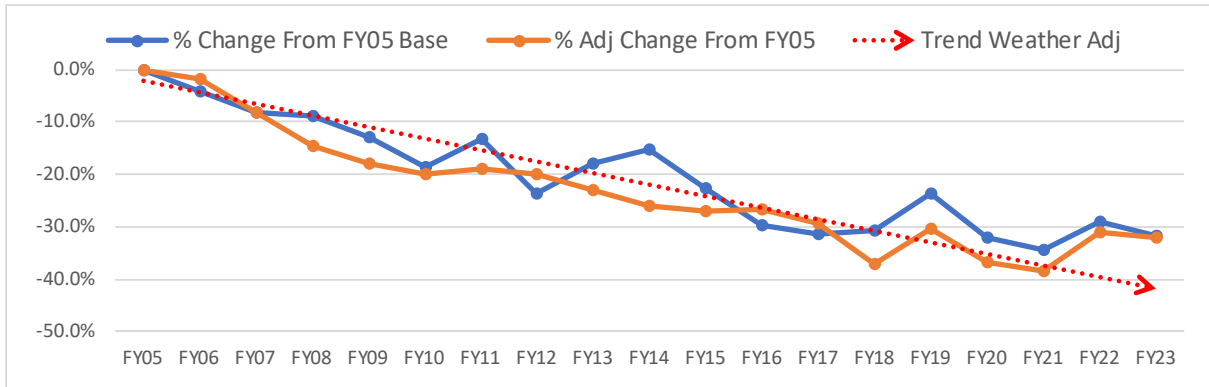
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Eau Claire Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.85		FY23 Therm/GSF = 0.75		FY23 Total Btu/GSF = 101,968		05-23 Thm -31.5%				
FY23 Electric \$/GSF = \$ 0.79		FY23 Thermal \$/GSF = \$ 0.48		FY23 Energy \$/GSF = \$ 1.26		05-23 kwh -34.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,438,217	108,640	40,508	149,148	0.0%	45.85	100.0%	100.0%	149,148	0.0%
FY06	2,436,936	100,153	42,818	142,972	-4.1%	47.80	103.7%	99.0%	146,238	-2.0%
FY07	2,436,936	98,235	38,579	136,814	-8.3%	46.32	100.3%	99.4%	136,824	-8.3%
FY08	2,436,936	98,592	37,164	135,756	-9.0%	43.27	91.5%	99.6%	127,251	-14.7%
FY09	2,436,936	95,121	34,913	130,033	-12.8%	42.97	91.8%	100.4%	122,354	-18.0%
FY10	2,436,963	88,749	32,720	121,470	-18.6%	45.29	97.6%	100.1%	119,338	-20.0%
FY11	2,436,963	95,979	33,367	129,346	-13.3%	43.68	91.0%	99.8%	120,688	-19.1%
FY12	2,452,457	79,834	33,875	113,709	-23.8%	49.02	107.7%	99.4%	119,634	-19.8%
FY13	2,452,457	90,372	32,263	122,635	-17.8%	43.85	91.5%	100.0%	114,927	-22.9%
FY14	2,634,457	95,483	30,862	126,345	-15.3%	41.37	83.4%	99.3%	110,271	-26.1%
FY15	2,634,457	86,137	29,408	115,545	-22.5%	43.42	92.3%	100.2%	108,926	-27.0%
FY16	2,634,457	76,042	29,066	105,108	-29.5%	47.61	105.6%	99.4%	109,197	-26.8%
FY17	2,634,457	74,225	28,091	102,316	-31.4%	47.08	104.0%	99.6%	105,165	-29.5%
FY18	2,634,457	76,146	27,337	103,484	-30.6%	42.94	86.7%	100.9%	93,640	-37.2%
FY19	2,634,457	86,878	26,955	113,832	-23.7%	42.23	88.4%	100.3%	103,887	-30.3%
FY20	2,785,457	76,331	25,027	101,358	-32.0%	41.35	89.8%	103.0%	94,340	-36.7%
FY21	2,785,457	72,721	25,121	97,843	-34.4%	41.67	90.5%	102.6%	91,585	-38.6%
FY22	2,801,457	79,037	27,064	106,101	-28.9%	44.82	95.8%	100.1%	102,806	-31.1%
FY23	2,729,192	75,184	26,784	101,968	-31.6%	45.80	99.0%	99.8%	101,196	-32.2%

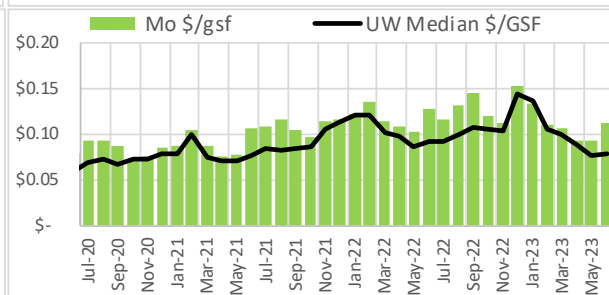
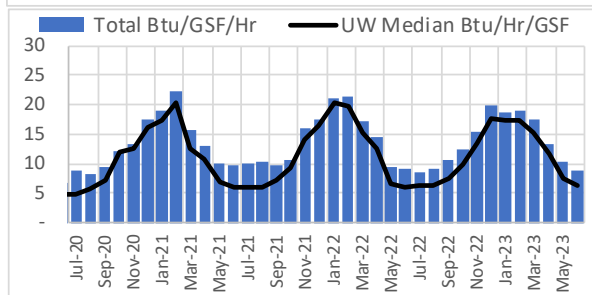
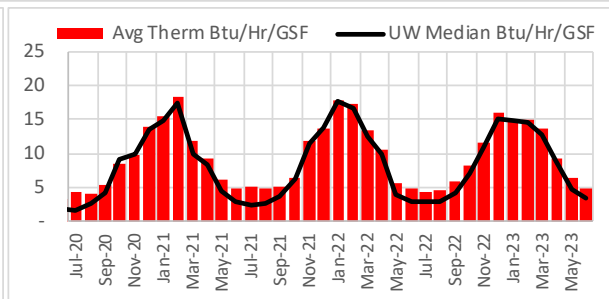
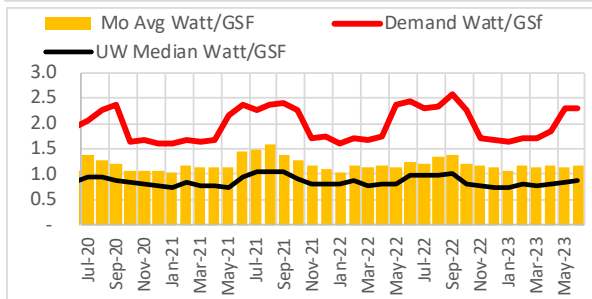
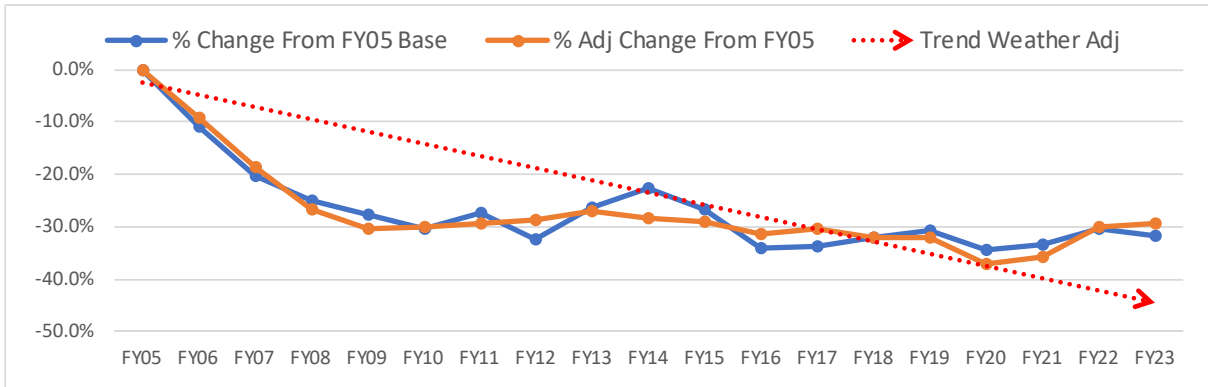
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Green Bay Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 10.46		FY23 Therm/GSF = 0.83		FY23 Total Btu/GSF = 119,179		05-23 Thm -27.3%				
FY23 Electric \$/GSF = \$ 0.94		FY23 Thermal \$/GSF = \$ 0.48		FY23 Energy \$/GSF = \$ 1.43		05-23 kwh -34.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,157,746	120,311	54,211	174,522	0.0%	45.92	100.0%	100.0%	174,522	0.0%
FY06	1,179,796	103,003	52,689	155,692	-10.8%	47.27	103.3%	99.0%	158,522	-9.2%
FY07	1,179,796	89,260	49,961	139,222	-20.2%	46.64	103.5%	99.9%	142,316	-18.5%
FY08	1,386,055	85,323	45,712	131,035	-24.9%	45.02	96.5%	99.6%	127,858	-26.7%
FY09	1,386,055	82,101	44,231	126,332	-27.6%	43.47	93.9%	100.5%	121,566	-30.3%
FY10	1,386,055	79,218	42,285	121,502	-30.4%	45.99	100.3%	100.3%	121,870	-30.2%
FY11	1,386,055	84,331	42,679	127,010	-27.2%	44.59	95.6%	99.6%	123,122	-29.5%
FY12	1,386,055	75,586	42,479	118,065	-32.3%	49.86	109.3%	98.6%	124,512	-28.7%
FY13	1,386,055	86,895	41,790	128,685	-26.3%	45.29	98.4%	99.9%	127,268	-27.1%
FY14	1,386,055	94,549	40,324	134,874	-22.7%	41.95	89.5%	99.7%	124,830	-28.5%
FY15	1,386,055	89,115	38,829	127,944	-26.7%	43.98	95.4%	100.3%	124,000	-28.9%
FY16	1,386,055	77,285	37,980	115,265	-34.0%	48.11	106.1%	99.3%	119,727	-31.4%
FY17	1,386,055	77,751	37,774	115,524	-33.8%	48.65	107.9%	99.3%	121,398	-30.4%
FY18	1,386,055	81,181	37,442	118,623	-32.0%	45.77	99.7%	100.0%	118,390	-32.2%
FY19	1,386,055	83,250	37,539	120,790	-30.8%	44.89	97.1%	100.1%	118,443	-32.1%
FY20	1,386,058	79,329	35,050	114,379	-34.5%	42.93	93.2%	102.3%	109,799	-37.1%
FY21	1,386,058	81,055	35,189	116,244	-33.4%	43.28	94.7%	101.2%	112,329	-35.6%
FY22	1,386,058	84,623	37,114	121,737	-30.2%	46.75	101.2%	98.9%	122,366	-29.9%
FY23	1,386,058	83,495	35,684	119,179	-31.7%	47.58	104.8%	99.6%	123,051	-29.5%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*

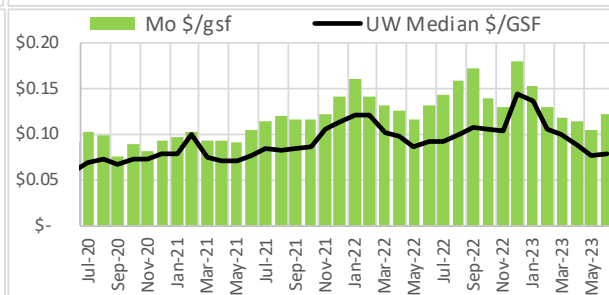
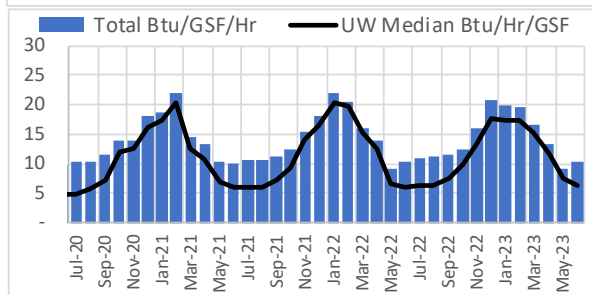
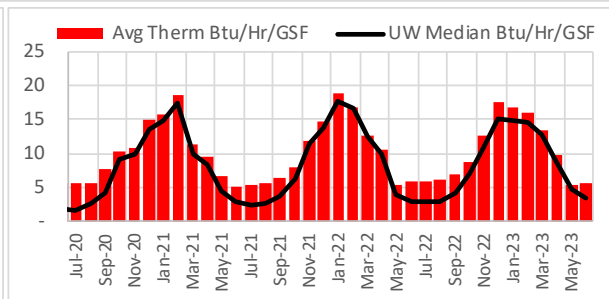
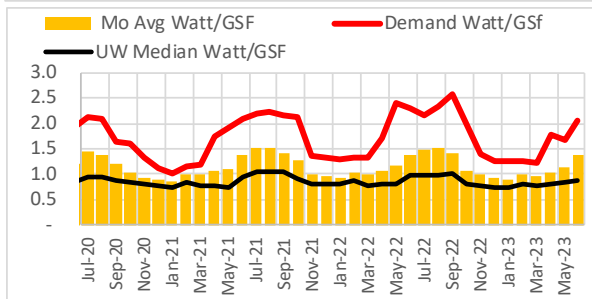
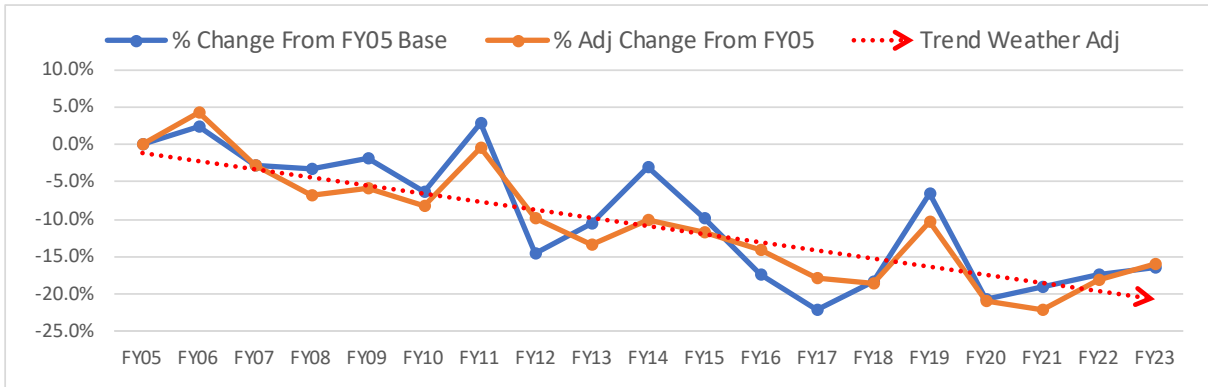




### UW-La Crosse Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 10.11		FY23 Therm/GSF = 0.91		FY23 Total Btu/GSF = 125,657		05-23 Thm -17.5%				
FY23 Electric \$/GSF = \$ 1.02		FY23 Thermal \$/GSF = \$ 0.65		FY23 Energy \$/GSF = \$ 1.67		05-23 kwh -11.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,260,874	111,932	38,509	150,442	0.0%	48.43	100.0%	100.0%	150,442	0.0%
FY06	2,206,741	112,859	41,060	153,918	2.3%	49.77	103.1%	98.9%	156,956	4.3%
FY07	2,371,272	106,564	39,666	146,230	-2.8%	48.69	100.3%	99.6%	146,365	-2.7%
FY08	2,371,272	107,435	38,037	145,472	-3.3%	46.15	95.0%	100.2%	140,209	-6.8%
FY09	2,371,272	109,799	37,932	147,731	-1.8%	45.85	94.3%	100.8%	141,783	-5.8%
FY10	2,261,088	105,044	35,731	140,775	-6.4%	47.43	97.3%	100.2%	137,957	-8.3%
FY11	2,261,088	114,130	40,565	154,696	2.8%	46.70	95.9%	99.7%	149,829	-0.4%
FY12	2,677,906	92,097	36,609	128,706	-14.4%	51.77	108.4%	98.0%	135,672	-9.8%
FY13	2,677,906	99,742	34,662	134,404	-10.7%	46.71	95.9%	99.9%	130,267	-13.4%
FY14	2,677,906	109,817	36,240	146,057	-2.9%	44.97	90.7%	99.0%	135,455	-10.0%
FY15	2,797,642	102,174	33,283	135,457	-10.0%	47.28	97.6%	99.5%	132,866	-11.7%
FY16	3,008,972	87,787	36,571	124,358	-17.3%	51.01	106.4%	97.7%	129,129	-14.2%
FY17	3,008,972	86,235	31,077	117,312	-22.0%	51.61	107.6%	98.7%	123,419	-18.0%
FY18	3,008,972	90,162	32,779	122,940	-18.3%	48.62	99.6%	99.2%	122,372	-18.7%
FY19	3,008,972	103,829	36,618	140,447	-6.6%	47.03	94.9%	99.4%	134,944	-10.3%
FY20	3,207,814	87,642	31,833	119,475	-20.6%	48.33	99.5%	99.5%	118,898	-21.0%
FY21	3,220,082	88,743	33,052	121,795	-19.0%	45.16	94.1%	102.3%	117,340	-22.0%
FY22	3,069,582	88,700	35,634	124,335	-17.4%	48.90	99.7%	97.9%	123,315	-18.0%
FY23	3,209,701	91,165	34,491	125,657	-16.5%	49.34	101.3%	98.7%	126,401	-16.0%

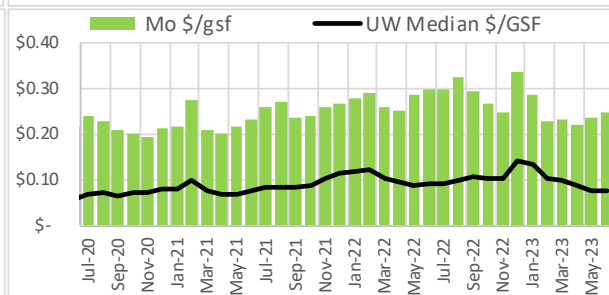
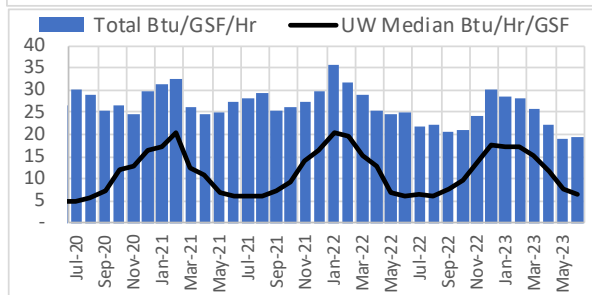
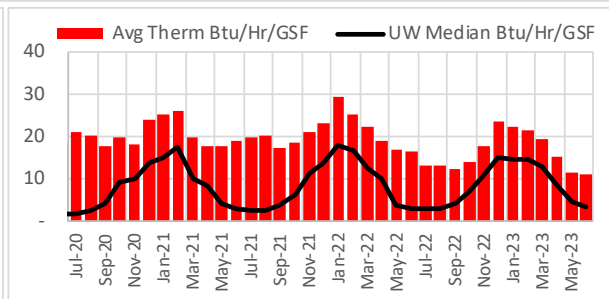
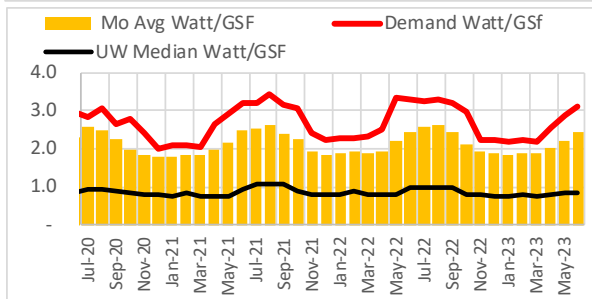
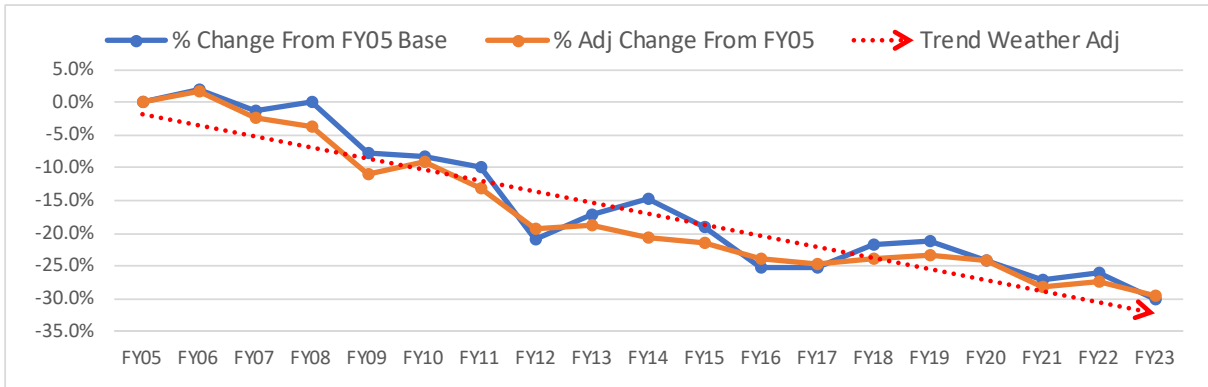
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Madison Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 18.83		FY23 Therm/GSF = 1.42		FY23 Total Btu/GSF = 206,043		05-23 Thm -36.3%				
FY23 Electric \$/GSF = \$ 2.17		FY23 Thermal \$/GSF = \$ 1.03		FY23 Energy \$/GSF = \$ 3.21		05-23 kwh -7.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	19,207,711	226,083	68,693	294,776	0.0%	48.12	100.0%	100.0%	294,776	0.0%
FY06	19,361,692	228,039	72,458	300,497	1.9%	48.65	99.7%	99.6%	299,616	1.6%
FY07	19,913,817	218,280	72,444	290,723	-1.4%	47.46	98.6%	99.9%	287,506	-2.5%
FY08	20,578,984	222,587	72,402	294,989	0.1%	46.19	95.1%	99.6%	283,791	-3.7%
FY09	20,979,443	201,882	70,317	272,200	-7.7%	45.66	95.3%	100.0%	262,700	-10.9%
FY10	20,678,457	198,630	71,666	270,295	-8.3%	47.10	98.6%	100.5%	267,859	-9.1%
FY11	21,120,379	191,751	73,773	265,524	-9.9%	46.81	95.3%	99.7%	256,304	-13.1%
FY12	22,153,550	161,185	72,184	233,369	-20.8%	51.51	103.7%	98.2%	238,111	-19.2%
FY13	22,362,671	174,852	69,426	244,278	-17.1%	47.29	97.2%	99.9%	239,328	-18.8%
FY14	22,810,139	182,317	68,825	251,142	-14.8%	44.58	90.5%	100.0%	233,897	-20.7%
FY15	22,931,250	171,216	67,872	239,089	-18.9%	45.84	95.7%	100.2%	231,867	-21.3%
FY16	22,931,250	152,560	67,974	220,535	-25.2%	49.68	102.9%	99.3%	224,467	-23.9%
FY17	22,947,032	152,337	68,409	220,746	-25.1%	49.72	101.4%	98.7%	221,909	-24.7%
FY18	22,755,778	163,357	67,055	230,413	-21.8%	46.66	96.3%	99.9%	224,243	-23.9%
FY19	22,738,034	166,914	65,675	232,588	-21.1%	45.88	96.0%	100.3%	226,043	-23.3%
FY20	22,871,102	160,144	63,748	223,893	-24.0%	48.25	100.0%	99.3%	223,497	-24.2%
FY21	23,025,678	152,781	61,929	214,710	-27.2%	48.83	98.9%	98.4%	212,014	-28.1%
FY22	23,025,678	153,771	64,468	218,239	-26.0%	48.67	97.9%	98.1%	213,853	-27.5%
FY23	23,091,606	141,786	64,257	206,043	-30.1%	49.08	101.6%	99.1%	207,728	-29.5%

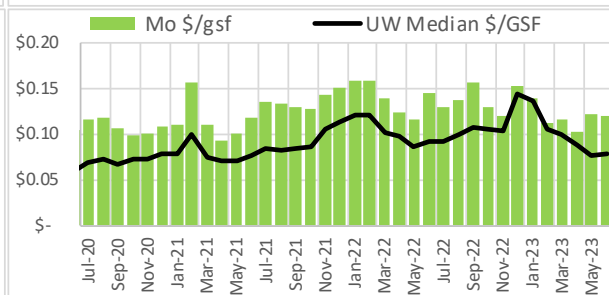
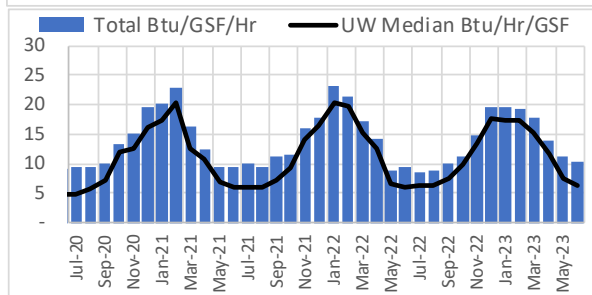
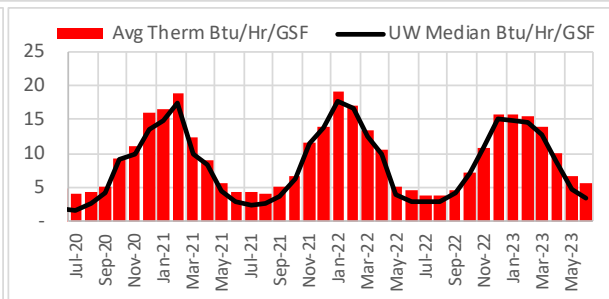
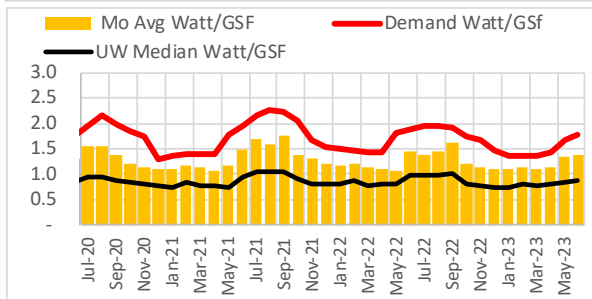
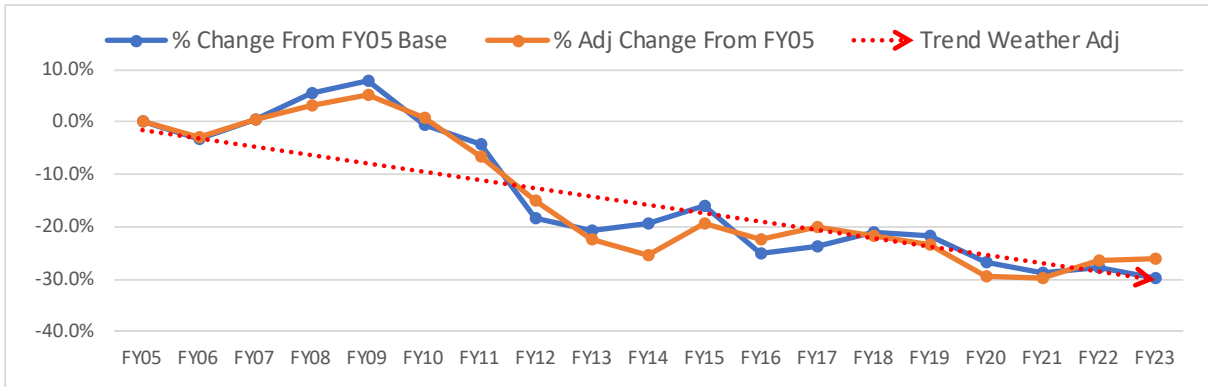
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Milwaukee Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 11.03		FY23 Therm/GSF = 0.83		FY23 Total Btu/GSF = 120,569		05-23 Thm -25.6%				
FY23 Electric \$/GSF = \$ 1.10		FY23 Thermal \$/GSF = \$ 0.44		FY23 Energy \$/GSF = \$ 1.54		05-23 kwh -27.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	4,190,131	120,968	50,959	171,927	0.0%	48.47	100.0%	100.0%	171,927	0.0%
FY06	4,190,131	113,043	53,589	166,632	-3.1%	50.11	100.6%	99.0%	166,781	-3.0%
FY07	4,324,831	118,950	53,955	172,905	0.6%	48.88	100.2%	99.6%	172,894	0.6%
FY08	4,320,806	126,609	54,956	181,564	5.6%	47.87	97.0%	99.4%	177,428	3.2%
FY09	4,344,925	131,382	54,261	185,643	8.0%	47.26	96.5%	100.1%	181,096	5.3%
FY10	5,124,577	119,065	52,092	171,157	-0.4%	49.10	102.0%	100.0%	173,546	0.9%
FY11	5,124,577	114,381	50,373	164,754	-4.2%	48.17	96.5%	99.4%	160,471	-6.7%
FY12	5,124,577	92,415	48,045	140,460	-18.3%	52.24	107.0%	98.3%	146,154	-15.0%
FY13	6,026,992	94,189	42,192	136,381	-20.7%	48.26	96.9%	99.5%	133,266	-22.5%
FY14	6,032,861	98,457	40,391	138,848	-19.2%	45.20	89.5%	99.8%	128,419	-25.3%
FY15	6,078,866	103,037	41,553	144,590	-15.9%	46.08	94.0%	100.4%	138,639	-19.4%
FY16	6,208,809	87,179	41,521	128,700	-25.1%	50.51	105.8%	99.8%	133,647	-22.3%
FY17	6,208,809	89,666	41,490	131,156	-23.7%	51.99	108.0%	98.2%	137,624	-20.0%
FY18	6,208,809	94,656	41,226	135,882	-21.0%	48.73	98.8%	99.5%	134,571	-21.7%
FY19	6,208,809	93,535	40,888	134,423	-21.8%	47.88	97.2%	99.6%	131,596	-23.5%
FY20	6,204,204	87,008	38,772	125,780	-26.8%	46.54	94.4%	101.6%	121,556	-29.3%
FY21	6,204,204	84,747	37,439	122,186	-28.9%	47.13	98.1%	100.2%	120,688	-29.8%
FY22	6,204,204	84,041	40,091	124,133	-27.8%	50.90	104.3%	97.1%	126,582	-26.4%
FY23	6,204,204	82,940	37,629	120,569	-29.9%	51.09	108.5%	98.4%	127,003	-26.1%

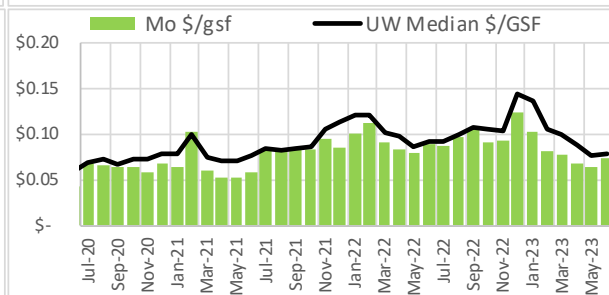
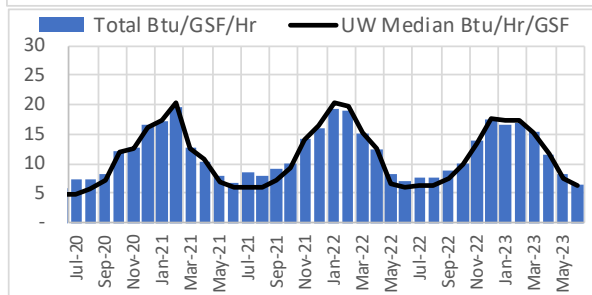
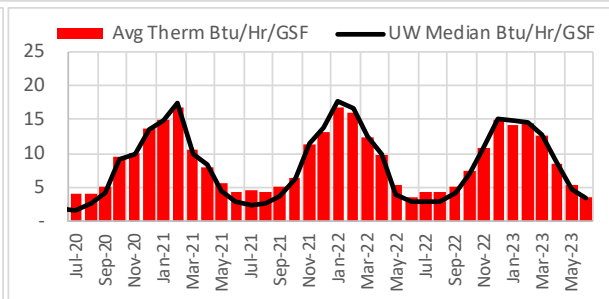
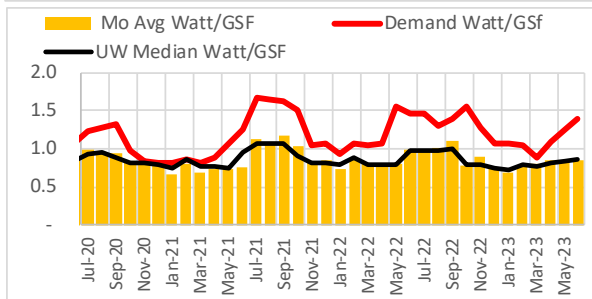
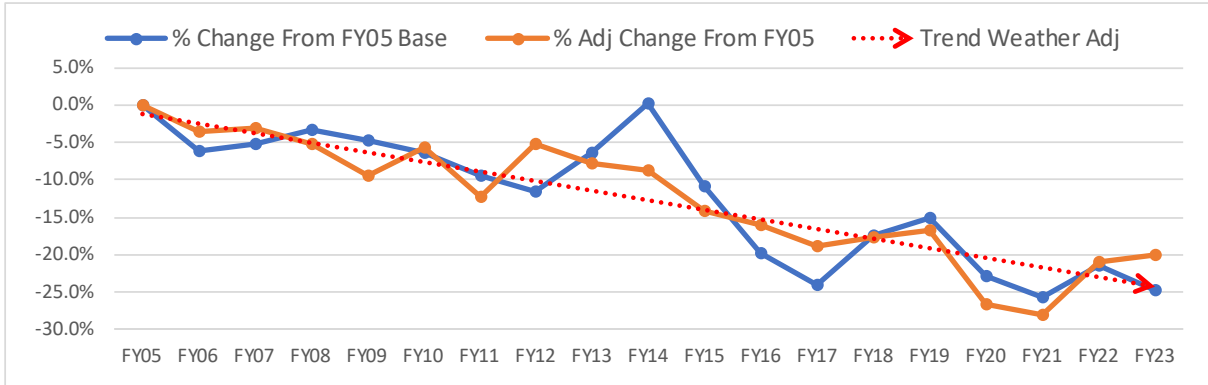
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Oshkosh Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.54		FY23 Therm/GSF = 0.77		FY23 Total Btu/GSF = 102,841		05-23 Thm -13.8%				
FY23 Electric \$/GSF = \$ 0.62		FY23 Thermal \$/GSF = \$ 0.44		FY23 Energy \$/GSF = \$ 1.07		05-23 kwh -35.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,674,233	97,371	39,080	136,452	0.0%	45.92	100.0%	100.0%	136,452	0.0%
FY06	2,746,643	90,160	38,047	128,207	-6.0%	47.27	103.9%	99.3%	131,464	-3.7%
FY07	2,753,951	92,028	37,296	129,324	-5.2%	46.64	103.4%	99.8%	132,360	-3.0%
FY08	2,889,527	96,011	36,061	132,072	-3.2%	45.02	97.1%	100.5%	129,502	-5.1%
FY09	2,855,351	94,812	35,226	130,038	-4.7%	43.47	92.9%	100.6%	123,483	-9.5%
FY10	2,826,573	92,436	35,384	127,820	-6.3%	45.99	100.9%	100.2%	128,691	-5.7%
FY11	2,892,390	89,695	33,923	123,619	-9.4%	44.59	95.6%	100.4%	119,801	-12.2%
FY12	2,892,390	85,067	35,571	120,638	-11.6%	49.86	111.0%	98.6%	129,486	-5.1%
FY13	3,001,171	92,892	34,815	127,707	-6.4%	45.29	97.9%	100.0%	125,799	-7.8%
FY14	3,001,171	102,450	34,326	136,776	0.2%	41.95	88.0%	100.5%	124,702	-8.6%
FY15	3,126,330	89,692	32,045	121,737	-10.8%	43.98	94.7%	100.3%	117,077	-14.2%
FY16	3,259,189	78,674	30,631	109,306	-19.9%	48.11	107.0%	99.3%	114,596	-16.0%
FY17	3,259,189	73,824	29,753	103,577	-24.1%	48.65	109.9%	98.9%	110,580	-19.0%
FY18	3,259,189	83,654	29,123	112,777	-17.4%	45.77	99.4%	100.0%	112,293	-17.7%
FY19	3,259,189	87,213	28,737	115,950	-15.0%	44.89	97.5%	99.7%	113,718	-16.7%
FY20	3,288,596	79,546	25,768	105,314	-22.8%	42.93	92.7%	102.6%	100,150	-26.6%
FY21	3,288,596	77,264	24,294	101,557	-25.6%	43.28	95.4%	101.1%	98,260	-28.0%
FY22	3,288,596	79,345	27,702	107,047	-21.5%	46.75	101.5%	98.9%	107,912	-20.9%
FY23	3,288,596	77,108	25,732	102,841	-24.6%	51.09	108.8%	98.4%	109,223	-20.0%

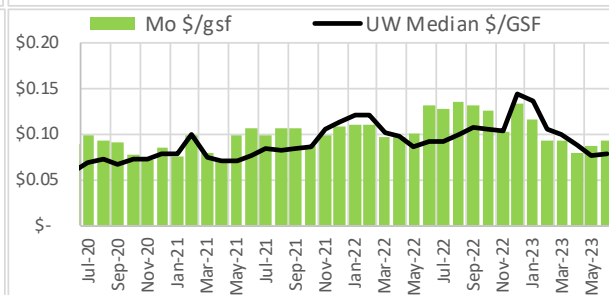
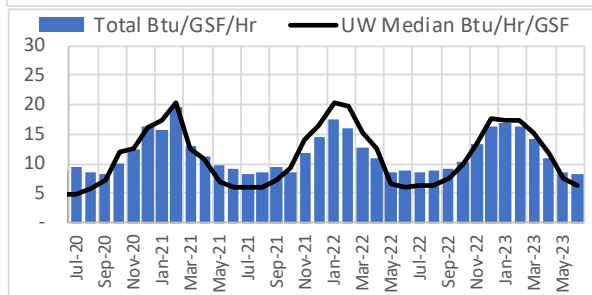
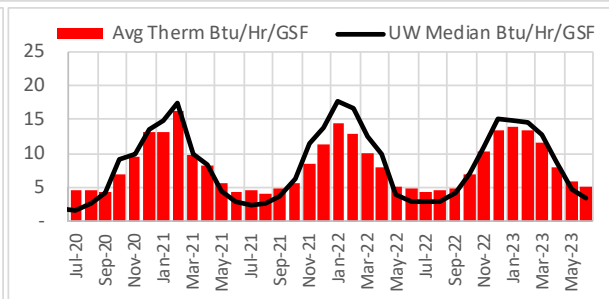
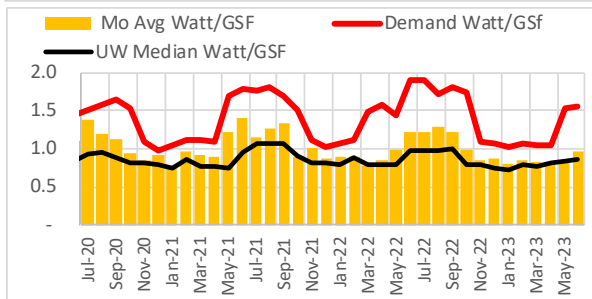
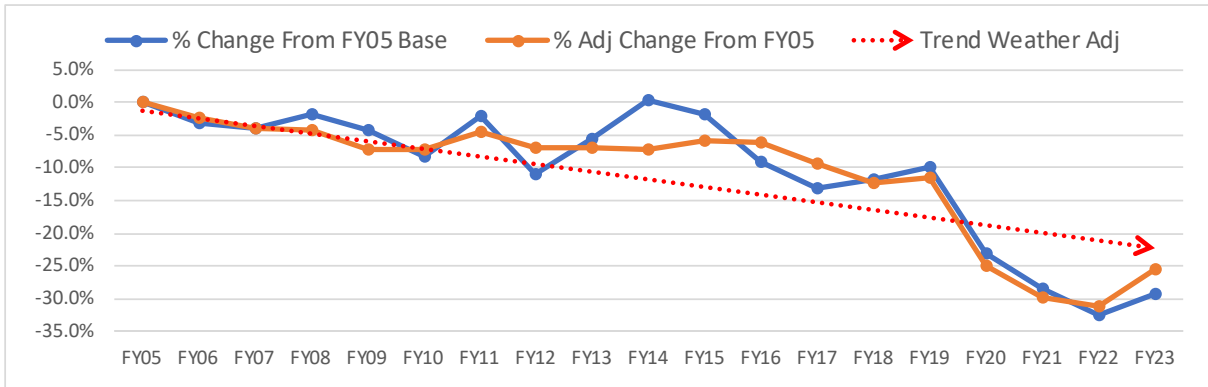
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Parkside Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.47		FY23 Therm/GSF = 0.74		FY23 Total Btu/GSF = 103,260		05-23 Thm -17.3%				
FY23 Electric \$/GSF = \$ 0.87		FY23 Thermal \$/GSF = \$ 0.44		FY23 Energy \$/GSF = \$ 1.32		05-23 kwh -41.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,132,766	97,238	48,885	146,123	0.0%	48.47	100.0%	100.0%	146,123	0.0%
FY06	1,135,611	92,933	48,494	141,428	-3.2%	50.11	102.3%	98.2%	142,717	-2.3%
FY07	1,135,611	92,812	47,413	140,224	-4.0%	48.88	100.5%	99.1%	140,275	-4.0%
FY08	1,135,611	96,311	47,038	143,349	-1.9%	47.87	96.8%	98.9%	139,757	-4.4%
FY09	1,191,207	95,784	44,059	139,843	-4.3%	47.26	95.7%	99.4%	135,432	-7.3%
FY10	1,190,505	91,337	42,696	134,033	-8.3%	49.10	101.8%	99.8%	135,620	-7.2%
FY11	1,190,505	99,535	43,573	143,108	-2.1%	48.17	97.2%	98.5%	139,670	-4.4%
FY12	1,262,322	86,719	43,465	130,183	-10.9%	52.24	108.1%	97.5%	136,102	-6.9%
FY13	1,262,322	97,434	40,419	137,853	-5.7%	48.26	98.6%	99.0%	136,081	-6.9%
FY14	1,262,322	106,314	40,203	146,517	0.3%	45.20	90.2%	99.0%	135,691	-7.1%
FY15	1,262,322	104,554	39,040	143,595	-1.7%	46.08	94.0%	100.8%	137,637	-5.8%
FY16	1,262,322	94,192	38,812	133,005	-9.0%	50.51	105.2%	98.4%	137,223	-6.1%
FY17	1,262,322	89,719	37,404	127,123	-13.0%	51.99	107.8%	95.9%	132,617	-9.2%
FY18	1,262,322	93,045	36,003	129,048	-11.7%	48.73	99.7%	98.8%	128,325	-12.2%
FY19	1,262,322	97,055	34,704	131,759	-9.8%	47.88	98.0%	98.6%	129,304	-11.5%
FY20	1,374,576	82,165	30,140	112,305	-23.1%	46.54	96.0%	102.3%	109,676	-24.9%
FY21	1,374,576	73,128	31,411	104,539	-28.5%	47.13	96.9%	101.2%	102,665	-29.7%
FY22	1,374,576	68,359	30,304	98,663	-32.5%	50.90	104.2%	96.8%	100,588	-31.2%
FY23	1,374,576	74,360	28,900	103,260	-29.3%	51.09	108.1%	98.9%	108,986	-25.4%

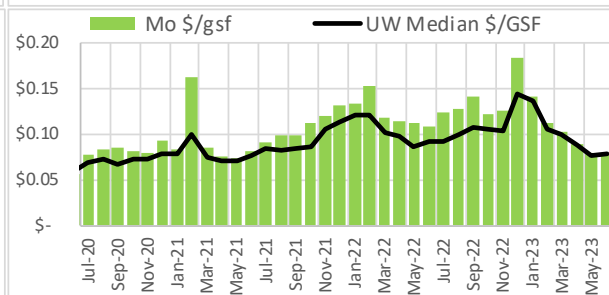
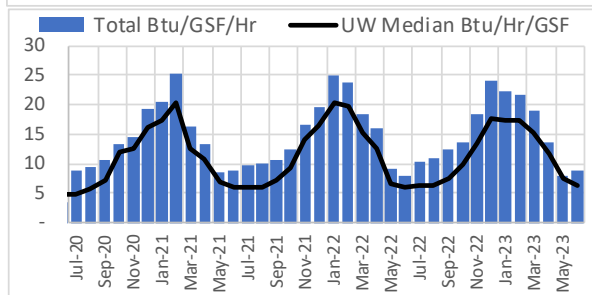
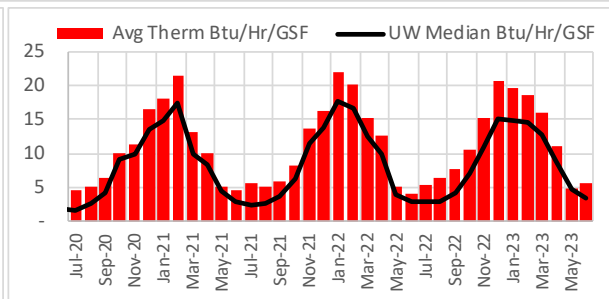
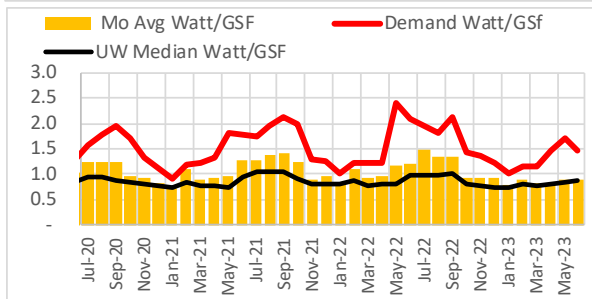
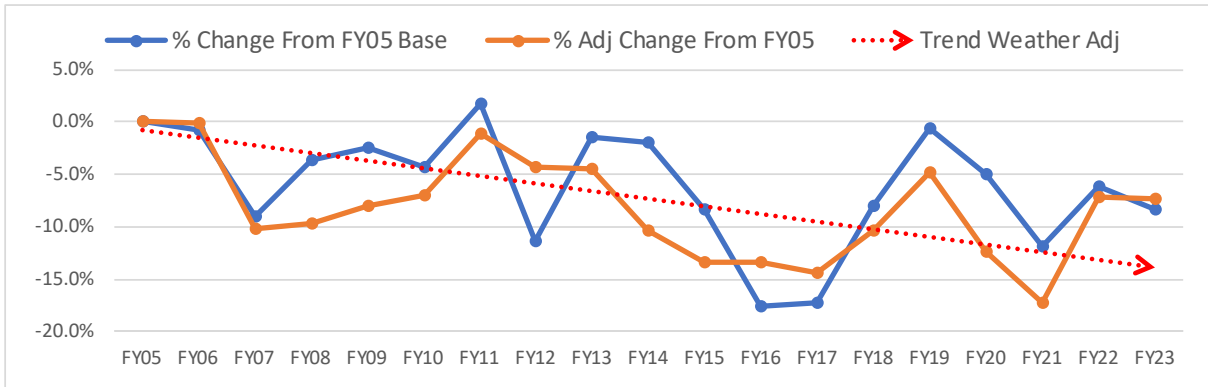
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Platteville Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.44		FY23 Therm/GSF = 0.99		FY23 Total Btu/GSF = 127,537		05-23 Thm -2.5%				
FY23 Electric \$/GSF = \$ 0.75		FY23 Thermal \$/GSF = \$ 0.61		FY23 Energy \$/GSF = \$ 1.36		05-23 kwh -21.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,767,380	103,200	36,016	139,216	0.0%	46.84	100.0%	100.0%	139,216	0.0%
FY06	1,754,450	101,158	37,098	138,256	-0.7%	47.39	101.0%	99.8%	139,195	0.0%
FY07	1,905,950	91,622	35,117	126,739	-9.0%	46.26	98.1%	99.9%	124,978	-10.2%
FY08	1,951,401	98,076	36,032	134,108	-3.7%	44.24	91.4%	100.0%	125,630	-9.8%
FY09	2,051,105	99,652	36,238	135,890	-2.4%	44.25	92.0%	100.3%	128,011	-8.0%
FY10	2,051,105	95,342	37,995	133,337	-4.2%	45.47	95.8%	100.5%	129,522	-7.0%
FY11	2,070,851	103,837	37,815	141,652	1.8%	46.21	96.3%	99.7%	137,700	-1.1%
FY12	2,070,851	88,288	35,073	123,361	-11.4%	51.40	112.0%	97.8%	133,138	-4.4%
FY13	2,070,851	103,588	33,516	137,104	-1.5%	46.61	96.4%	98.8%	132,981	-4.5%
FY14	2,244,485	104,542	31,937	136,478	-2.0%	43.20	89.1%	99.0%	124,799	-10.4%
FY15	2,244,485	96,423	31,305	127,728	-8.3%	44.37	92.4%	100.3%	120,497	-13.4%
FY16	2,244,485	84,267	30,498	114,766	-17.6%	48.82	107.3%	99.2%	120,646	-13.3%
FY17	2,244,485	83,745	31,430	115,175	-17.3%	49.01	105.3%	98.9%	119,245	-14.3%
FY18	2,244,485	97,297	30,707	128,004	-8.1%	45.93	96.6%	100.1%	124,688	-10.4%
FY19	2,244,485	106,967	31,515	138,482	-0.5%	44.97	94.5%	99.8%	132,530	-4.8%
FY20	2,132,462	101,145	31,117	132,262	-5.0%	43.71	89.7%	100.3%	121,926	-12.4%
FY21	2,132,462	91,863	30,764	122,627	-11.9%	43.00	91.2%	102.1%	115,197	-17.3%
FY22	2,134,293	97,387	33,271	130,658	-6.1%	46.88	99.0%	98.9%	129,344	-7.1%
FY23	2,233,502	98,727	28,810	127,537	-8.4%	47.70	101.9%	98.6%	129,035	-7.3%

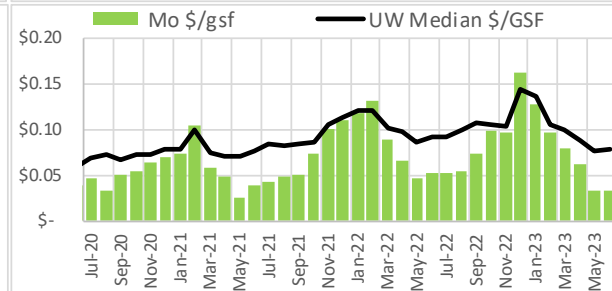
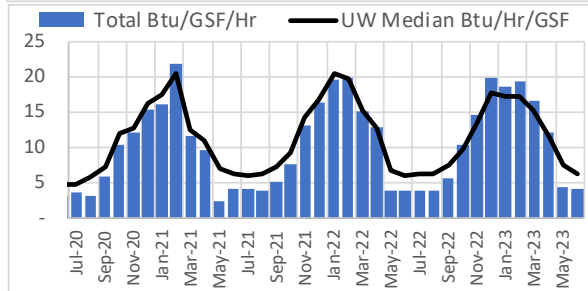
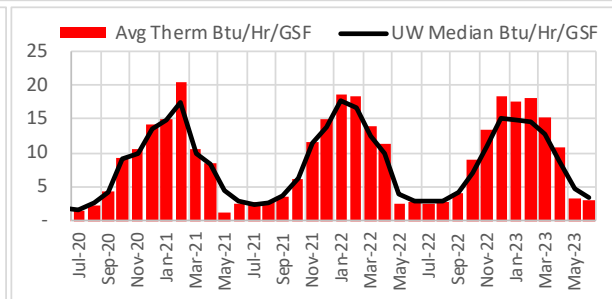
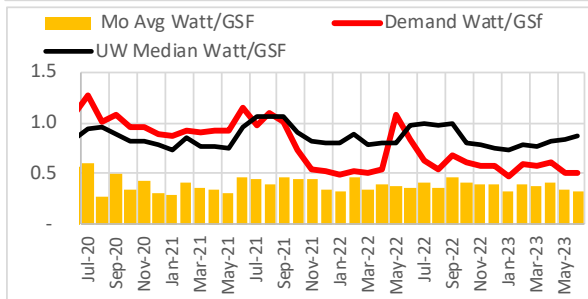
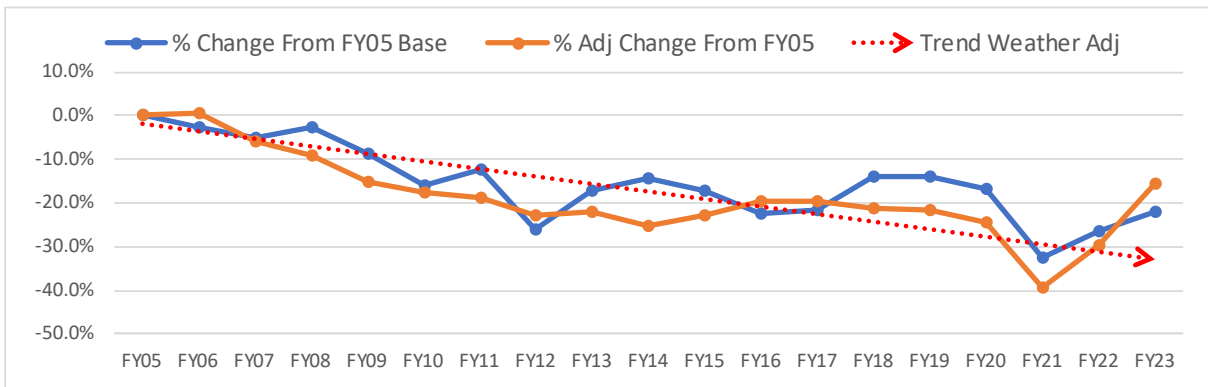
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-River Falls Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 3.37		FY23 Therm/GSF = 0.86		FY23 Total Btu/GSF = 97,159		05-23 Thm 1.4%				
FY23 Electric \$/GSF = \$ 0.34		FY23 Thermal \$/GSF = \$ 0.63		FY23 Energy \$/GSF = \$ 0.97		05-23 kwh -64.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,493,198	92,456	32,102	124,558	0.0%	45.85	100.0%	100.0%	124,558	0.0%
FY06	1,539,790	89,293	31,876	121,169	-2.7%	47.80	104.5%	99.7%	125,121	0.5%
FY07	1,685,846	87,694	30,484	118,178	-5.1%	46.32	99.2%	100.1%	117,497	-5.7%
FY08	1,683,720	91,485	29,871	121,356	-2.6%	43.27	90.7%	100.6%	113,063	-9.2%
FY09	1,686,708	85,604	28,108	113,712	-8.7%	42.97	90.2%	101.3%	105,704	-15.1%
FY10	1,686,708	78,074	26,846	104,920	-15.8%	45.29	97.2%	100.1%	102,761	-17.5%
FY11	1,686,708	82,623	26,635	109,259	-12.3%	43.68	89.7%	101.2%	101,061	-18.9%
FY12	1,766,458	66,615	25,643	92,258	-25.9%	49.02	105.8%	99.4%	95,939	-23.0%
FY13	1,769,312	77,503	25,774	103,277	-17.1%	43.85	91.7%	100.4%	96,978	-22.1%
FY14	1,769,312	81,313	25,204	106,516	-14.5%	41.37	83.0%	101.3%	93,007	-25.3%
FY15	1,769,312	78,935	24,038	102,973	-17.3%	43.42	91.2%	100.5%	96,154	-22.8%
FY16	1,769,312	72,883	23,530	96,413	-22.6%	47.61	105.6%	99.6%	100,376	-19.4%
FY17	1,769,312	73,501	24,119	97,620	-21.6%	47.08	103.2%	99.8%	99,938	-19.8%
FY18	1,769,312	83,619	23,740	107,358	-13.8%	42.94	88.4%	101.1%	97,950	-21.4%
FY19	1,769,312	83,694	23,365	107,058	-14.0%	42.23	88.6%	100.6%	97,640	-21.6%
FY20	1,684,447	81,171	22,708	103,879	-16.6%	41.35	88.2%	100.1%	94,343	-24.3%
FY21	1,684,447	72,399	11,596	83,995	-32.6%	41.67	87.7%	102.4%	75,398	-39.5%
FY22	1,684,447	79,487	11,926	91,413	-26.6%	44.82	95.0%	100.5%	87,510	-29.7%
FY23	1,684,447	85,658	11,501	97,159	-22.0%	51.09	109.5%	99.6%	105,217	-15.5%

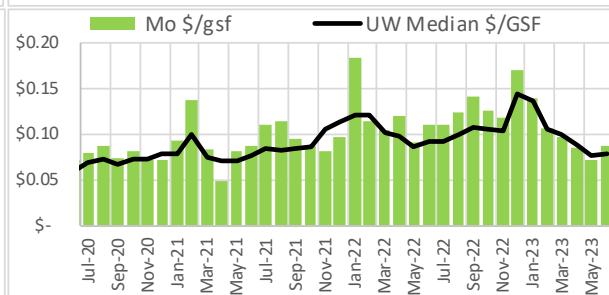
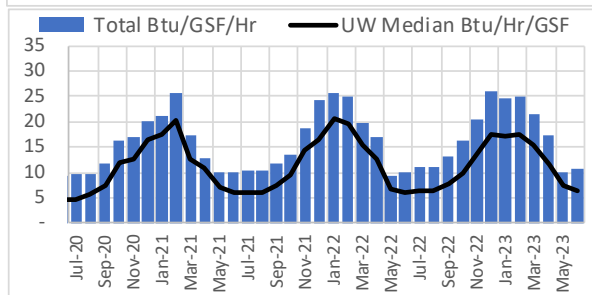
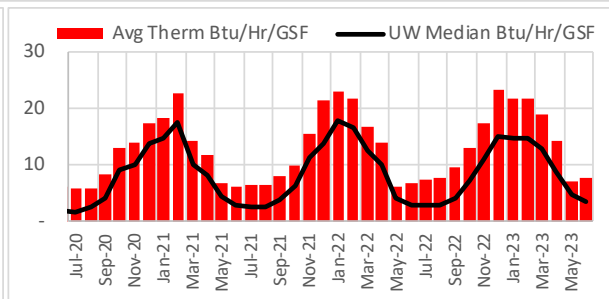
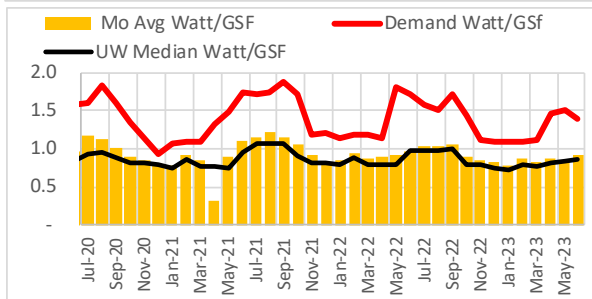
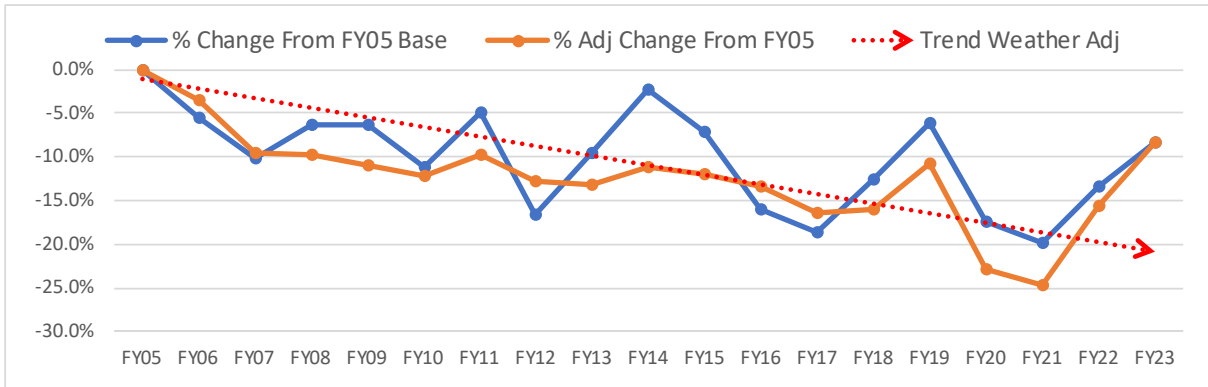
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Stevens Point Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.90		FY23 Therm/GSF = 1.24		FY23 Total Btu/GSF = 150,489		05-23 Thm -3.5%				
FY23 Electric \$/GSF = \$ 0.67		FY23 Thermal \$/GSF = \$ 0.71		FY23 Energy \$/GSF = \$ 1.38		05-23 kwh -25.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,335,965	128,082	36,054	164,136	0.0%	46.04	100.0%	100.0%	164,136	0.0%
FY06	2,460,496	119,379	35,690	155,069	-5.5%	47.49	102.9%	99.7%	158,359	-3.5%
FY07	2,460,496	113,304	34,134	147,438	-10.2%	46.81	101.0%	99.9%	148,560	-9.5%
FY08	2,493,729	118,947	34,919	153,866	-6.3%	44.51	95.2%	100.3%	148,292	-9.7%
FY09	2,493,729	119,936	33,824	153,759	-6.3%	43.51	93.3%	100.9%	146,070	-11.0%
FY10	2,453,362	111,437	34,311	145,749	-11.2%	45.49	98.7%	100.1%	144,303	-12.1%
FY11	2,463,548	119,930	36,059	155,989	-5.0%	43.59	93.3%	100.7%	148,150	-9.7%
FY12	2,629,769	101,883	34,846	136,730	-16.7%	49.50	106.8%	98.6%	143,168	-12.8%
FY13	2,629,769	114,526	34,093	148,618	-9.5%	44.37	94.7%	100.3%	142,674	-13.1%
FY14	2,629,769	125,931	34,522	160,454	-2.2%	41.62	88.3%	100.2%	145,753	-11.2%
FY15	2,629,769	118,090	34,294	152,384	-7.2%	43.36	93.3%	100.3%	144,570	-11.9%
FY16	2,629,769	103,469	34,492	137,961	-15.9%	47.34	104.1%	99.6%	142,087	-13.4%
FY17	2,629,769	102,577	30,951	133,529	-18.6%	47.13	103.5%	99.7%	137,057	-16.5%
FY18	2,629,769	111,331	32,240	143,572	-12.5%	44.30	94.8%	100.4%	137,875	-16.0%
FY19	2,629,769	120,991	32,980	153,971	-6.2%	43.35	93.6%	100.5%	146,402	-10.8%
FY20	2,806,271	107,015	28,562	135,577	-17.4%	41.63	91.3%	101.9%	126,775	-22.8%
FY21	2,806,271	104,652	26,804	131,457	-19.9%	41.73	91.8%	102.8%	123,670	-24.7%
FY22	2,806,271	113,012	29,271	142,283	-13.3%	44.68	96.7%	100.0%	138,611	-15.6%
FY23	2,806,271	123,528	26,961	150,489	-8.3%	45.80	100.0%	100.3%	150,612	-8.2%

Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

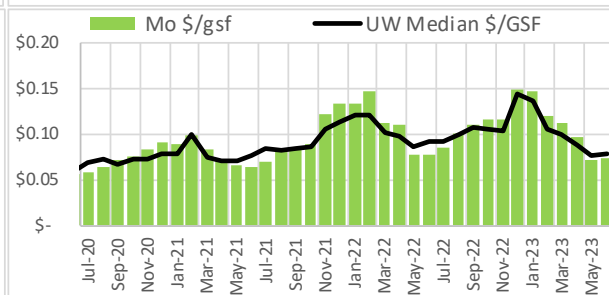
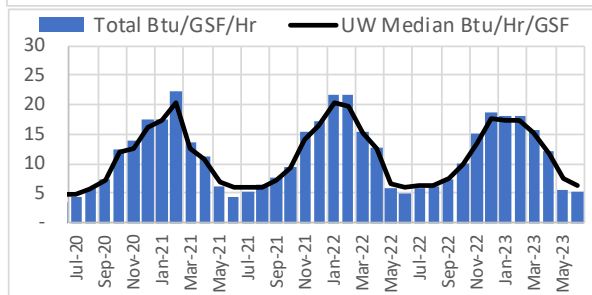
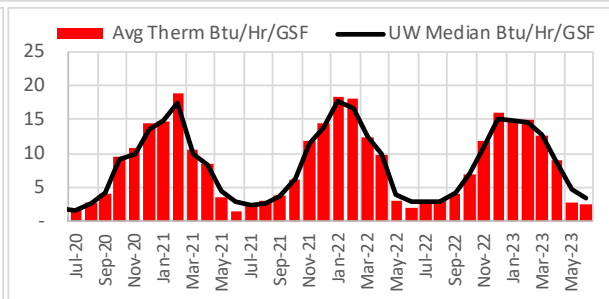
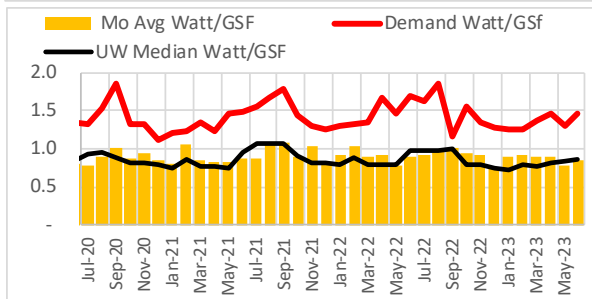
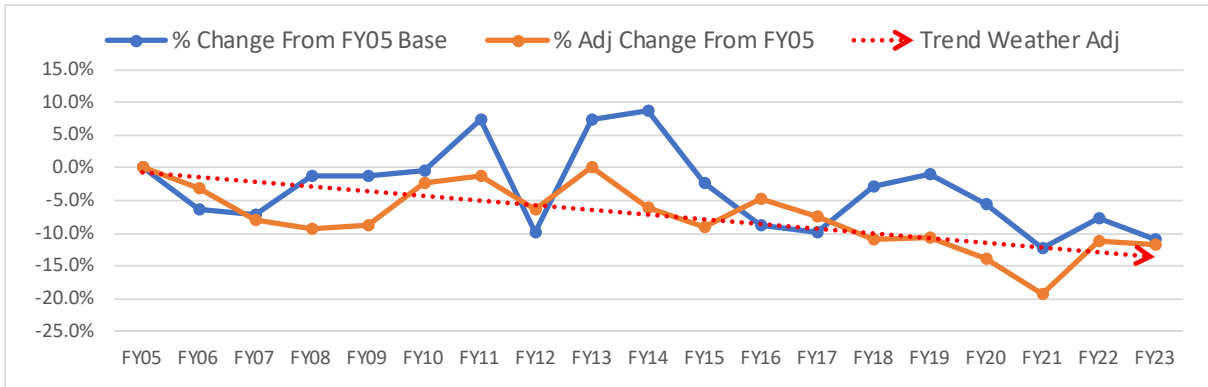




### UW-Stout Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.87		FY23 Therm/GSF = 0.74		FY23 Total Btu/GSF = 100,851		05-23 Thm -9.3%				
FY23 Electric \$/GSF = \$ 0.80		FY23 Thermal \$/GSF = \$ 0.50		FY23 Energy \$/GSF = \$ 1.30		05-23 kwh -17.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,162,886	80,464	32,598	113,062	0.0%	45.85	100.0%	100.0%	113,062	0.0%
FY06	2,307,775	73,849	32,191	106,040	-6.2%	47.80	104.9%	99.9%	109,583	-3.1%
FY07	2,308,975	74,375	30,537	104,912	-7.2%	46.32	98.7%	100.0%	103,963	-8.0%
FY08	2,308,426	81,706	29,957	111,663	-1.2%	43.27	88.9%	100.1%	102,659	-9.2%
FY09	2,326,439	81,821	29,965	111,787	-1.1%	42.97	89.2%	100.5%	103,118	-8.8%
FY10	2,326,439	80,831	31,640	112,471	-0.5%	45.29	97.6%	100.0%	110,489	-2.3%
FY11	2,433,320	90,058	31,345	121,403	7.4%	43.68	89.2%	100.3%	111,748	-1.2%
FY12	2,443,351	70,805	31,036	101,842	-9.9%	49.02	105.7%	100.2%	105,949	-6.3%
FY13	2,446,059	88,850	32,537	121,387	7.4%	43.85	91.0%	99.7%	113,287	0.2%
FY14	2,448,864	92,099	30,742	122,841	8.6%	41.37	82.8%	97.8%	106,334	-6.0%
FY15	2,448,864	79,516	31,070	110,586	-2.2%	43.42	90.6%	99.3%	102,915	-9.0%
FY16	2,452,414	72,518	30,781	103,300	-8.6%	47.61	105.9%	100.3%	107,706	-4.7%
FY17	2,452,414	71,777	30,180	101,957	-9.8%	47.08	104.0%	99.9%	104,790	-7.3%
FY18	2,452,414	79,516	30,432	109,948	-2.8%	42.94	88.0%	100.9%	100,651	-11.0%
FY19	2,452,414	82,878	29,133	112,011	-0.9%	42.23	87.2%	99.4%	101,183	-10.5%
FY20	2,456,060	80,284	26,666	106,951	-5.4%	41.35	87.8%	100.6%	97,353	-13.9%
FY21	2,456,060	72,940	26,400	99,340	-12.1%	41.67	89.0%	99.6%	91,208	-19.3%
FY22	2,456,060	76,388	27,921	104,309	-7.7%	44.82	95.1%	99.6%	100,430	-11.2%
FY23	2,456,060	73,999	26,852	100,851	-10.8%	45.80	98.6%	100.2%	99,885	-11.7%

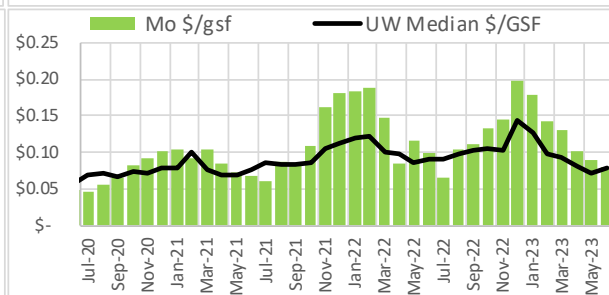
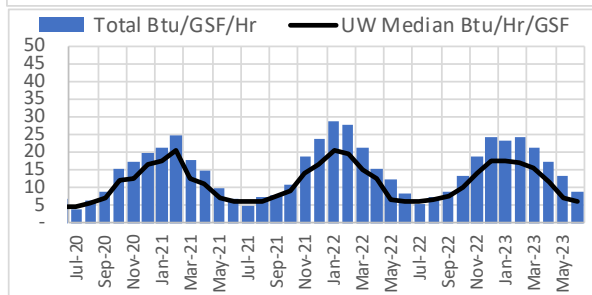
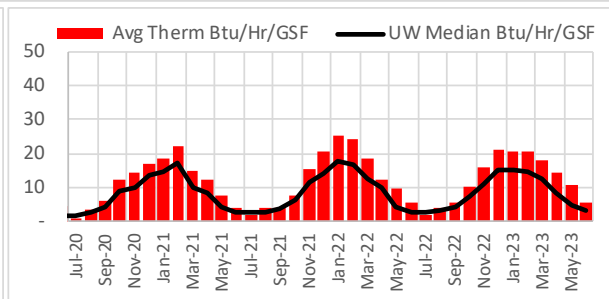
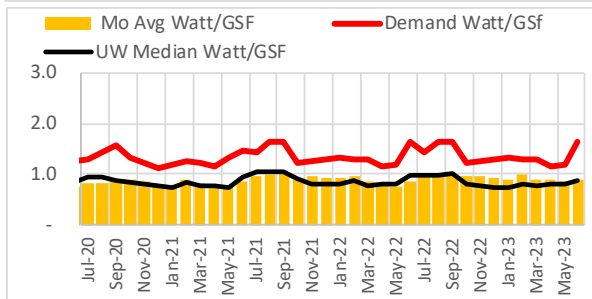
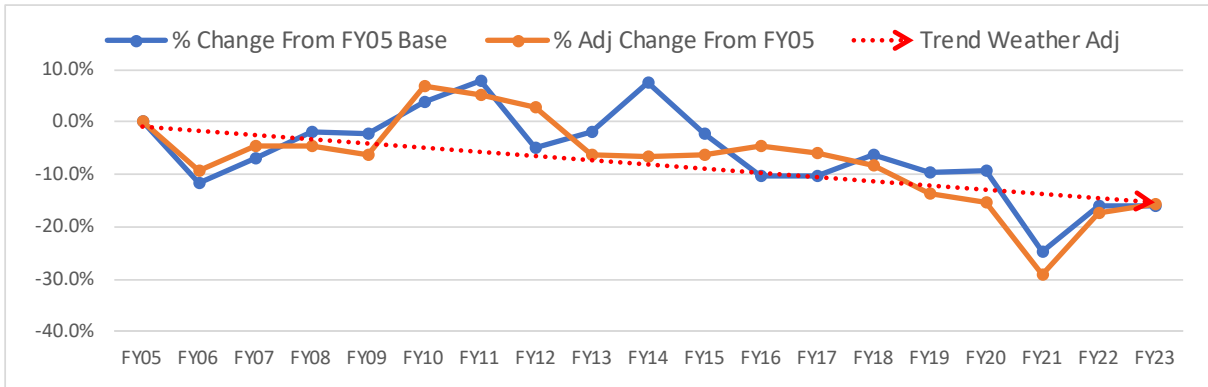
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Superior Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.20		FY23 Therm/GSF = 1.08		FY23 Total Btu/GSF = 135,898		05-23 Thm -17.1%				
FY23 Electric \$/GSF = \$ 0.75		FY23 Thermal \$/GSF = \$ -		FY23 Energy \$/GSF = \$ 0.75		05-23 kwh -8.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,076,728	131,188	30,821	162,010	0.0%	41.25	100.0%	100.0%	162,010	0.0%
FY06	1,100,416	113,499	29,731	143,231	-11.6%	43.07	103.1%	100.5%	146,925	-9.3%
FY07	1,100,416	121,638	29,318	150,955	-6.8%	42.62	102.8%	100.6%	154,557	-4.6%
FY08	1,100,416	128,998	29,891	158,890	-1.9%	40.59	96.7%	100.0%	154,645	-4.5%
FY09	1,100,416	127,933	30,306	158,239	-2.3%	39.54	95.0%	99.5%	151,644	-6.4%
FY10	1,032,741	134,981	33,276	168,257	3.9%	42.44	103.6%	100.4%	173,254	6.9%
FY11	1,032,741	142,386	32,616	175,002	8.0%	40.77	96.7%	99.9%	170,239	5.1%
FY12	1,086,193	119,692	34,618	154,310	-4.8%	45.72	109.9%	101.5%	166,675	2.9%
FY13	1,088,749	125,807	33,202	159,009	-1.9%	40.13	94.4%	99.7%	151,897	-6.2%
FY14	1,101,473	143,147	31,176	174,323	7.6%	37.72	84.2%	99.4%	151,578	-6.4%
FY15	1,101,473	125,867	32,585	158,452	-2.2%	40.35	95.0%	99.7%	152,069	-6.1%
FY16	1,120,382	112,817	32,511	145,328	-10.3%	44.19	107.9%	100.5%	154,405	-4.7%
FY17	1,120,382	114,333	31,154	145,487	-10.2%	43.72	106.0%	100.4%	152,451	-5.9%
FY18	1,120,382	121,106	30,946	152,053	-6.1%	39.93	97.1%	99.8%	148,428	-8.4%
FY19	1,120,382	116,182	30,432	146,615	-9.5%	39.56	94.3%	99.7%	139,952	-13.6%
FY20	1,111,812	117,374	29,411	146,785	-9.4%	38.27	91.6%	100.7%	137,088	-15.4%
FY21	1,107,876	97,013	24,807	121,821	-24.8%	38.57	92.7%	100.2%	114,801	-29.1%
FY22	1,107,876	108,795	27,195	135,990	-16.1%	41.05	98.4%	99.1%	134,034	-17.3%
FY23	1,107,876	107,919	27,979	135,898	-16.1%	41.83	100.7%	100.4%	136,780	-15.6%

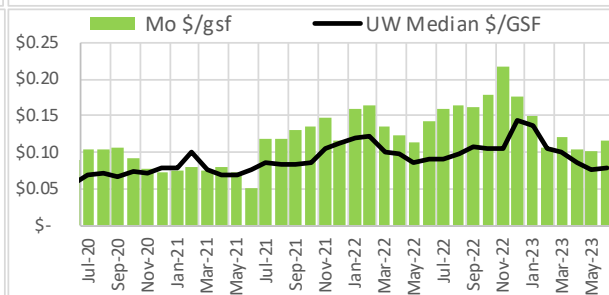
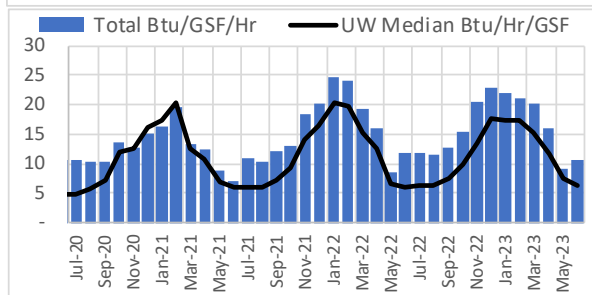
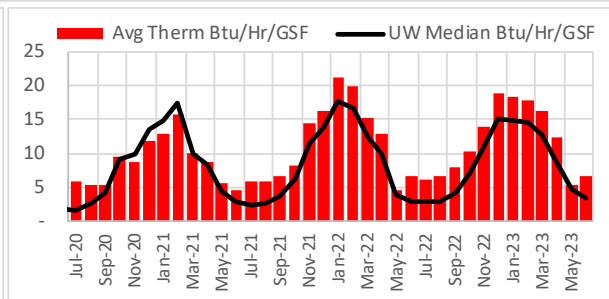
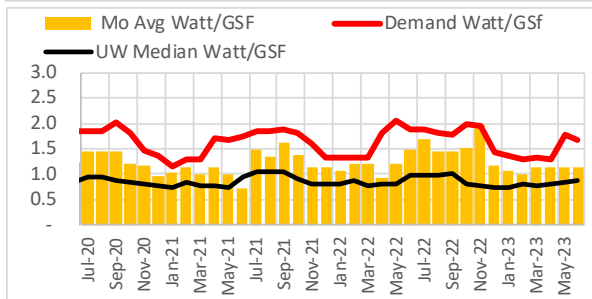
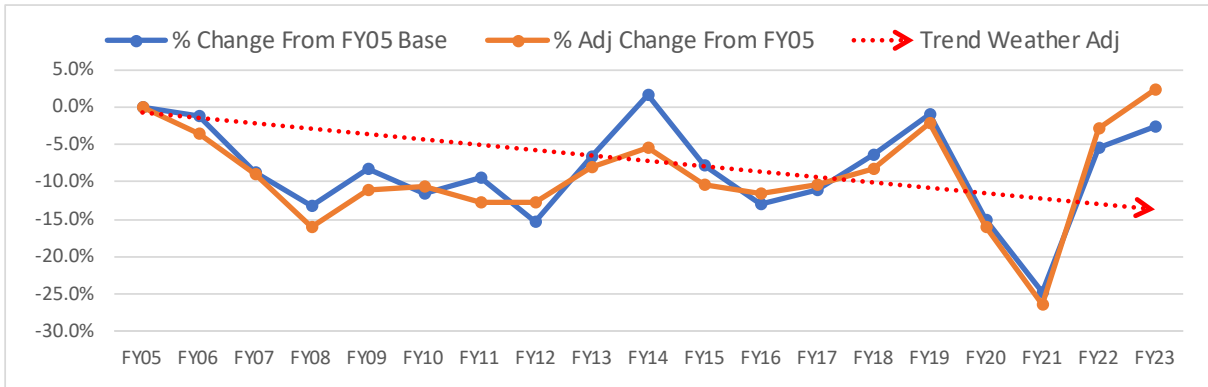
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### UW-Whitewater Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 11.60		FY23 Therm/GSF = 1.03		FY23 Total Btu/GSF = 142,190		05-23 Thm 0.3%				
FY23 Electric \$/GSF = \$ 1.14		FY23 Thermal \$/GSF = \$ 0.62		FY23 Energy \$/GSF = \$ 1.76		05-23 kwh 8.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,558,663	110,212	35,656	145,867	0.0%	48.47	100.0%	100.0%	145,867	0.0%
FY06	2,642,094	108,536	35,654	144,190	-1.2%	50.11	96.6%	100.1%	140,538	-3.7%
FY07	2,531,040	94,691	38,580	133,272	-8.6%	48.88	99.5%	99.8%	132,740	-9.0%
FY08	2,535,623	88,592	38,164	126,756	-13.1%	47.87	95.3%	99.6%	122,441	-16.1%
FY09	2,535,623	95,991	37,999	133,991	-8.1%	47.26	95.7%	99.7%	129,750	-11.0%
FY10	2,714,423	90,988	38,106	129,094	-11.5%	49.10	101.5%	99.8%	130,395	-10.6%
FY11	2,922,323	93,720	38,257	131,976	-9.5%	48.17	95.3%	99.6%	127,400	-12.7%
FY12	2,930,608	85,675	37,935	123,611	-15.3%	52.24	104.9%	98.5%	127,242	-12.8%
FY13	2,942,875	98,566	37,566	136,132	-6.7%	48.26	98.1%	99.9%	134,183	-8.0%
FY14	2,942,875	109,922	38,307	148,229	1.6%	45.20	90.8%	99.7%	138,014	-5.4%
FY15	2,942,875	96,322	38,031	134,352	-7.9%	46.08	96.0%	100.6%	130,738	-10.4%
FY16	2,942,875	87,999	38,941	126,940	-13.0%	50.51	102.7%	99.2%	128,977	-11.6%
FY17	2,942,875	91,167	38,386	129,553	-11.2%	51.99	102.1%	97.9%	130,661	-10.4%
FY18	2,942,875	98,838	37,666	136,504	-6.4%	48.73	97.2%	100.2%	133,806	-8.3%
FY19	2,942,875	106,284	38,144	144,428	-1.0%	47.88	98.3%	100.2%	142,700	-2.2%
FY20	2,965,821	86,145	37,581	123,726	-15.2%	46.54	97.8%	101.6%	122,442	-16.1%
FY21	3,114,162	75,731	34,169	109,900	-24.7%	47.13	96.9%	99.5%	107,356	-26.4%
FY22	3,114,162	100,127	37,812	137,939	-5.4%	50.90	104.6%	97.7%	141,634	-2.9%
FY23	3,114,162	102,588	39,602	142,190	-2.5%	51.09	107.8%	98.1%	149,384	2.4%

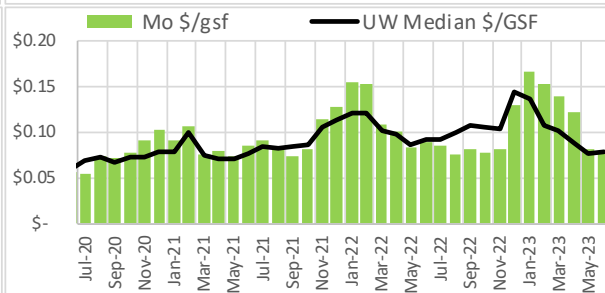
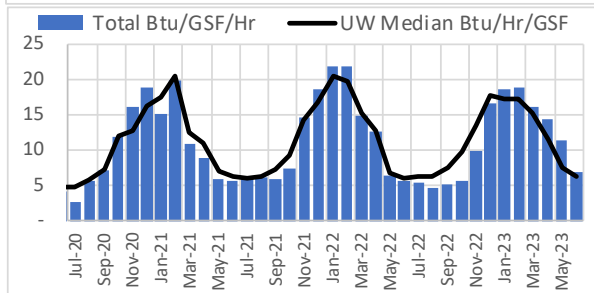
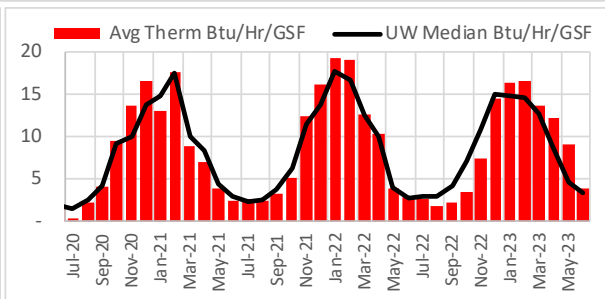
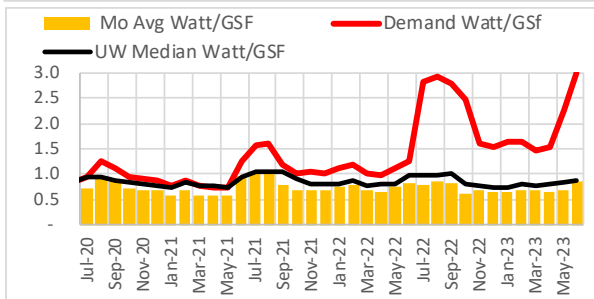
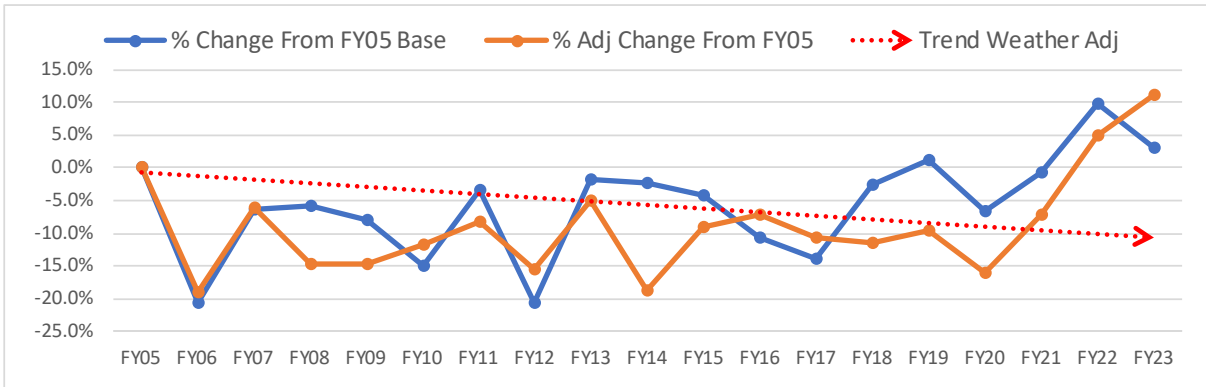
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Eau Claire, Barron Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 6.31		FY23 Therm/GSF = 0.75		FY23 Total Btu/GSF = 96,928		05-23 Thm 20.4%				
FY23 Electric \$/GSF = \$ 0.61		FY23 Thermal \$/GSF = \$ 0.66		FY23 Energy \$/GSF = \$ 1.27		05-23 kwh -14.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	146,683	68,961	24,959	93,920	0.0%	44.26	100.0%	100.0%	93,920	0.0%
FY06	146,683	50,219	24,449	74,668	-20.5%	45.56	102.2%	101.3%	76,055	-19.0%
FY07	146,683	59,577	28,442	88,019	-6.3%	44.50	100.2%	100.2%	88,205	-6.1%
FY08	146,683	62,206	26,231	88,437	-5.8%	42.10	86.3%	101.2%	80,266	-14.5%
FY09	146,683	60,882	25,582	86,463	-7.9%	42.50	89.2%	100.5%	80,050	-14.8%
FY10	146,683	55,335	24,564	79,899	-14.9%	45.38	105.8%	99.7%	83,039	-11.6%
FY11	146,683	65,691	25,032	90,723	-3.4%	43.50	93.3%	100.0%	86,312	-8.1%
FY12	146,683	50,835	23,808	74,642	-20.5%	47.63	109.2%	100.7%	79,479	-15.4%
FY13	146,683	69,539	22,747	92,286	-1.7%	42.87	95.7%	99.6%	89,179	-5.0%
FY14	146,683	68,763	22,880	91,642	-2.4%	39.97	77.6%	100.5%	76,337	-18.7%
FY15	146,683	64,978	25,062	90,040	-4.1%	42.20	93.3%	99.4%	85,561	-8.9%
FY16	146,683	60,959	22,912	83,872	-10.7%	46.23	105.6%	99.6%	87,192	-7.2%
FY17	146,683	63,058	17,913	80,971	-13.8%	45.86	104.8%	100.2%	84,030	-10.5%
FY18	146,683	71,792	19,729	91,521	-2.6%	42.67	88.5%	99.6%	83,174	-11.4%
FY19	146,683	75,451	19,621	95,072	1.2%	41.78	87.0%	99.0%	85,043	-9.5%
FY20	146,683	67,954	19,888	87,842	-6.5%	39.87	86.3%	101.9%	78,887	-16.0%
FY21	146,683	71,797	21,565	93,361	-0.6%	40.53	90.7%	102.7%	87,240	-7.1%
FY22	146,683	79,668	23,465	103,133	9.8%	43.09	94.8%	98.1%	98,508	4.9%
FY23	146,683	75,377	21,551	96,928	3.2%	51.09	110.1%	99.6%	104,477	11.2%

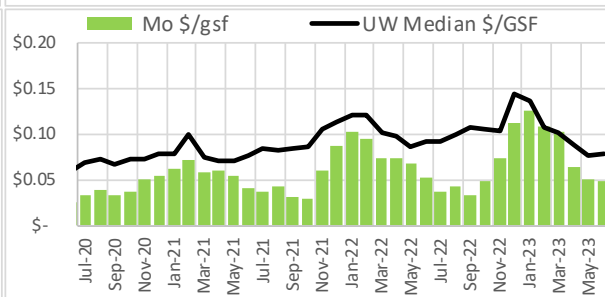
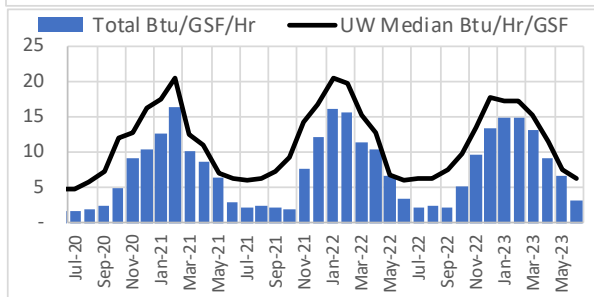
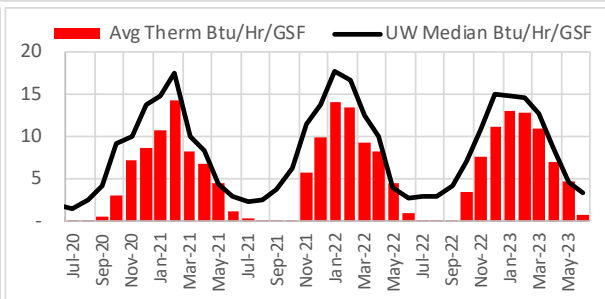
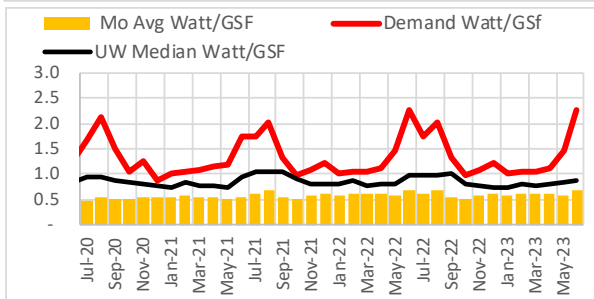
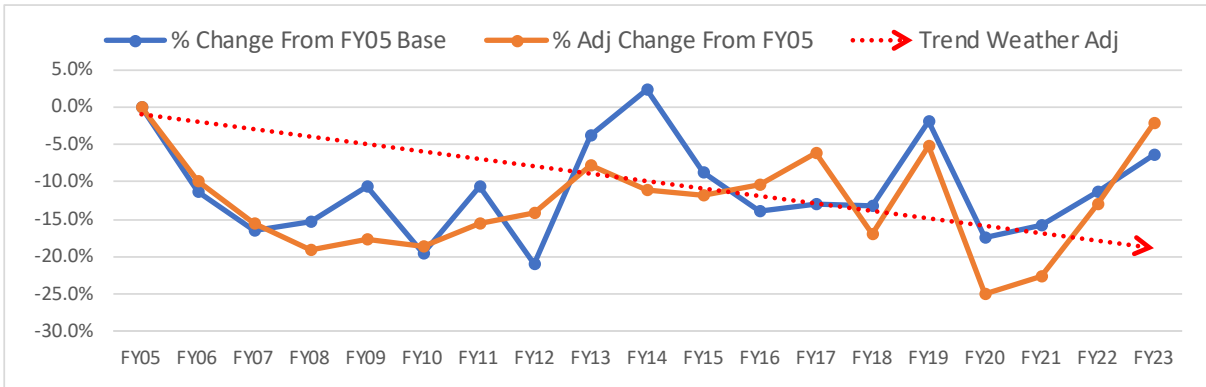
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Green Bay, Manitowoc Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.28		FY23 Therm/GSF = 0.52		FY23 Total Btu/GSF = 70,273		05-23 Thm 13.6%				
FY23 Electric \$/GSF = \$ 0.39		FY23 Thermal \$/GSF = \$ 0.46		FY23 Energy \$/GSF = \$ 0.85		05-23 kwh -31.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	125,045	48,682	26,306	74,988	0.0%	45.92	100.0%	100.0%	74,988	0.0%
FY06	125,045	42,486	24,105	66,591	-11.2%	47.27	102.4%	100.1%	67,638	-9.8%
FY07	125,045	40,784	21,881	62,665	-16.4%	46.64	101.6%	100.2%	63,364	-15.5%
FY08	125,045	41,371	22,197	63,568	-15.2%	45.02	92.2%	101.2%	60,604	-19.2%
FY09	125,045	44,475	22,531	67,006	-10.6%	43.47	88.1%	100.4%	61,817	-17.6%
FY10	125,045	38,761	21,552	60,313	-19.6%	45.99	102.7%	98.7%	61,080	-18.5%
FY11	125,045	43,806	23,147	66,953	-10.7%	44.59	91.4%	101.0%	63,409	-15.4%
FY12	125,045	35,601	23,632	59,232	-21.0%	49.86	114.6%	100.2%	64,470	-14.0%
FY13	125,045	48,234	23,881	72,115	-3.8%	45.29	94.0%	99.8%	69,201	-7.7%
FY14	125,045	52,936	23,815	76,751	2.4%	41.95	81.0%	99.6%	66,607	-11.2%
FY15	125,045	45,771	22,589	68,359	-8.8%	43.98	95.2%	99.7%	66,091	-11.9%
FY16	125,045	41,535	22,980	64,516	-14.0%	48.11	106.6%	99.7%	67,203	-10.4%
FY17	125,045	41,189	24,019	65,208	-13.0%	48.65	112.1%	100.6%	70,341	-6.2%
FY18	125,045	45,726	19,342	65,068	-13.2%	45.77	94.1%	99.9%	62,331	-16.9%
FY19	125,045	52,954	20,681	73,635	-1.8%	44.89	95.0%	100.2%	71,044	-5.3%
FY20	125,045	44,385	17,513	61,898	-17.5%	42.93	87.2%	100.2%	56,262	-25.0%
FY21	125,045	47,080	16,032	63,112	-15.8%	43.28	89.5%	99.6%	58,118	-22.5%
FY22	125,045	48,500	18,004	66,504	-11.3%	46.75	97.7%	99.3%	65,245	-13.0%
FY23	125,045	52,269	18,004	70,273	-6.3%	47.58	105.8%	100.3%	73,381	-2.1%

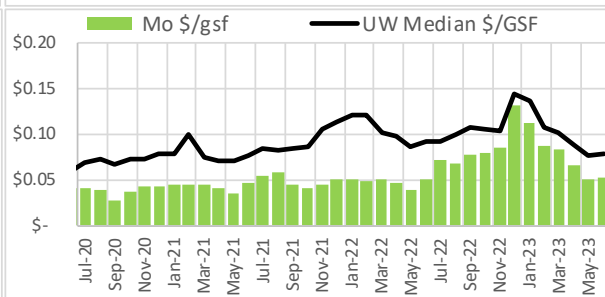
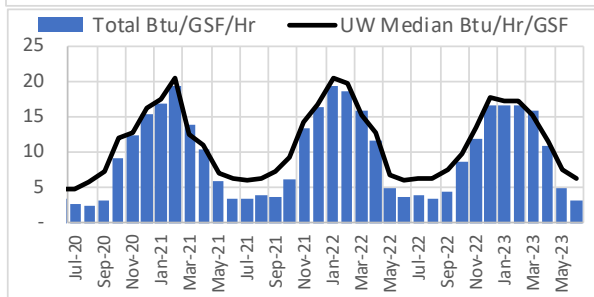
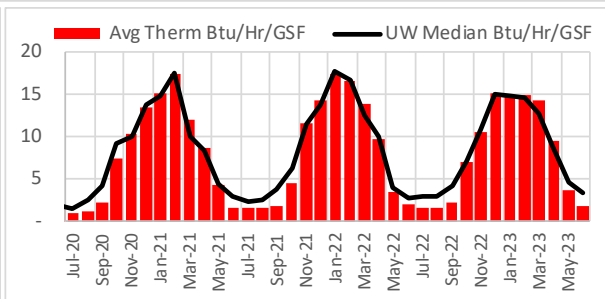
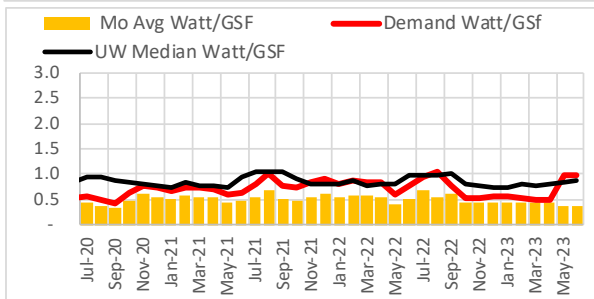
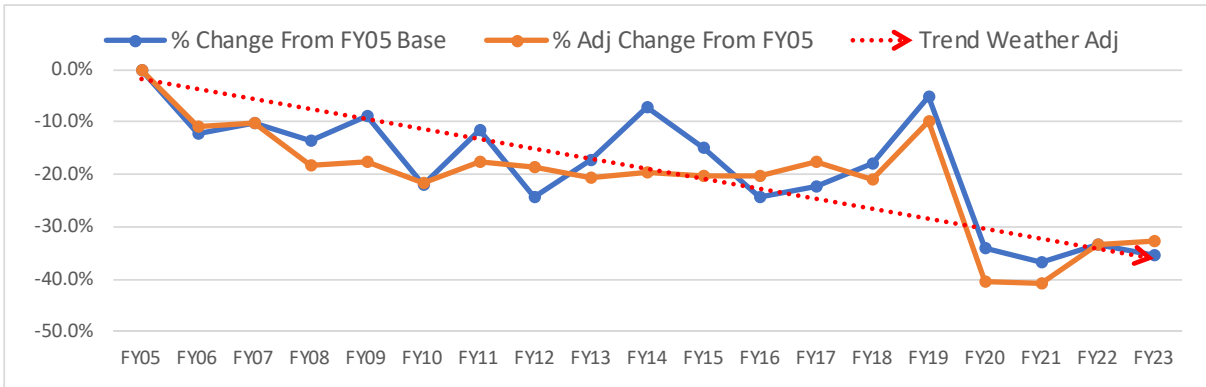
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Green Bay, Marinette Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.22		FY23 Therm/GSF = 0.71		FY23 Total Btu/GSF = 84,924		05-23 Thm -24.5%				
FY23 Electric \$/GSF = \$ 0.52		FY23 Thermal \$/GSF = \$ 0.45		FY23 Energy \$/GSF = \$ 0.96		05-23 kwh -57.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	103,778	97,916	33,580	131,496	0.0%	45.92	100.0%	100.0%	131,496	0.0%
FY06	103,778	84,635	30,881	115,517	-12.2%	47.27	102.0%	100.2%	117,284	-10.8%
FY07	103,778	86,211	32,103	118,314	-10.0%	46.64	99.8%	100.1%	118,218	-10.1%
FY08	102,740	82,819	30,750	113,569	-13.6%	45.02	92.8%	99.4%	107,412	-18.3%
FY09	102,740	89,463	30,381	119,843	-8.9%	43.47	87.2%	99.5%	108,225	-17.7%
FY10	107,988	74,977	27,787	102,764	-21.8%	45.99	100.4%	99.2%	102,845	-21.8%
FY11	107,988	87,316	28,818	116,134	-11.7%	44.59	91.1%	99.9%	108,359	-17.6%
FY12	107,988	71,455	28,073	99,528	-24.3%	49.86	109.8%	101.7%	107,006	-18.6%
FY13	107,988	80,514	28,424	108,938	-17.2%	45.29	94.3%	99.5%	104,239	-20.7%
FY14	107,988	95,636	26,299	121,935	-7.3%	41.95	83.5%	98.0%	105,637	-19.7%
FY15	107,988	89,052	22,949	112,001	-14.8%	43.98	91.7%	100.2%	104,641	-20.4%
FY16	107,988	77,780	21,608	99,388	-24.4%	48.11	106.9%	99.9%	104,738	-20.3%
FY17	107,988	81,248	21,027	102,275	-22.2%	48.65	107.6%	100.2%	108,465	-17.5%
FY18	107,988	85,885	22,217	108,102	-17.8%	45.77	95.3%	99.0%	103,832	-21.0%
FY19	107,988	101,099	23,790	124,889	-5.0%	44.89	93.9%	99.2%	118,581	-9.8%
FY20	139,818	70,034	16,695	86,729	-34.0%	42.93	88.2%	100.4%	78,506	-40.3%
FY21	139,818	68,551	14,815	83,366	-36.6%	43.28	92.4%	98.4%	77,953	-40.7%
FY22	139,818	71,404	16,326	87,730	-33.3%	46.75	99.8%	99.6%	87,484	-33.5%
FY23	139,818	70,537	14,387	84,924	-35.4%	47.58	104.8%	99.9%	88,265	-32.9%

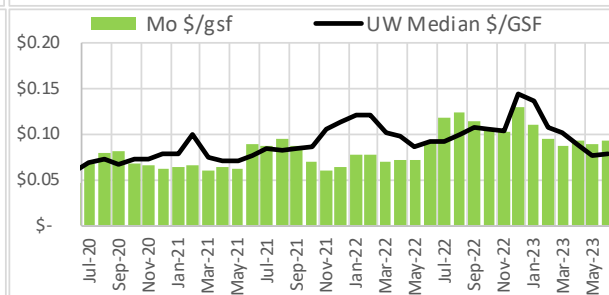
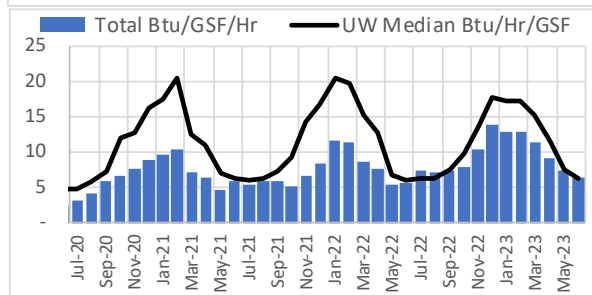
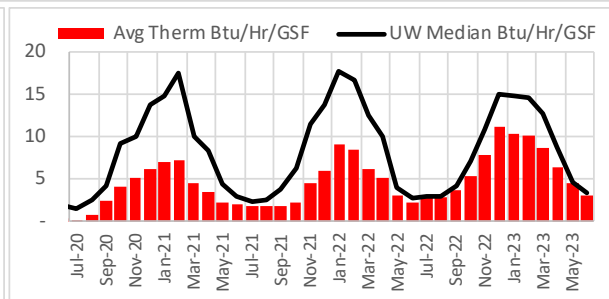
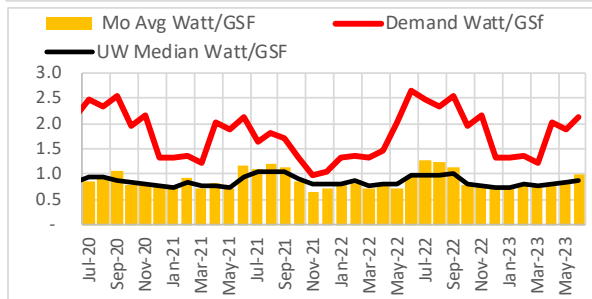
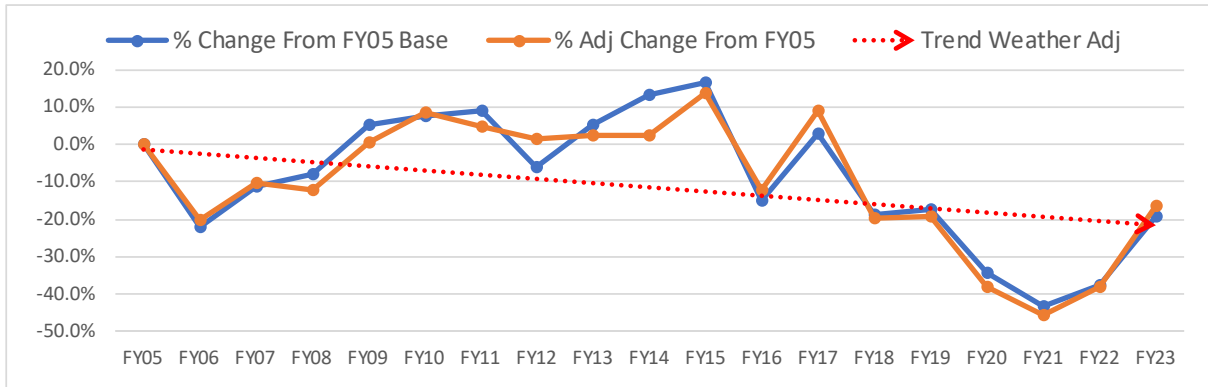
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Green Bay, Sheboygan Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.96		FY23 Therm/GSF = 0.56		FY23 Total Btu/GSF = 83,031		05-23 Thm -18.6%				
FY23 Electric \$/GSF = \$ 0.89		FY23 Thermal \$/GSF = \$ 0.37		FY23 Energy \$/GSF = \$ 1.26		05-23 kwh -11.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	170,927	72,172	30,582	102,754	0.0%	45.92	100.0%	100.0%	102,754	0.0%
FY06	170,927	52,365	27,815	80,180	-22.0%	47.27	103.6%	99.2%	81,869	-20.3%
FY07	170,927	58,093	33,114	91,207	-11.2%	46.64	101.2%	100.2%	92,000	-10.5%
FY08	197,727	64,566	29,819	94,385	-8.1%	45.02	93.9%	99.0%	90,168	-12.2%
FY09	197,727	74,774	33,178	107,952	5.1%	43.47	93.6%	100.0%	103,180	0.4%
FY10	200,918	73,373	37,387	110,760	7.8%	45.99	101.0%	100.6%	111,715	8.7%
FY11	200,918	77,654	34,410	112,065	9.1%	44.59	95.1%	98.3%	107,679	4.8%
FY12	200,918	63,854	32,782	96,637	-6.0%	49.86	112.0%	99.6%	104,167	1.4%
FY13	200,918	74,154	34,185	108,339	5.4%	45.29	96.2%	99.8%	105,435	2.6%
FY14	200,918	83,874	32,470	116,345	13.2%	41.95	87.7%	98.0%	105,375	2.6%
FY15	200,918	84,688	35,146	119,834	16.6%	43.98	96.5%	100.4%	117,013	13.9%
FY16	200,918	51,512	35,961	87,473	-14.9%	48.11	105.9%	99.1%	90,182	-12.2%
FY17	200,918	68,854	36,730	105,584	2.8%	48.65	109.7%	99.2%	111,975	9.0%
FY18	200,918	49,284	34,318	83,602	-18.6%	45.77	98.5%	99.4%	82,644	-19.6%
FY19	200,918	51,780	33,309	85,089	-17.2%	44.89	96.7%	99.0%	83,054	-19.2%
FY20	228,544	41,923	25,695	67,618	-34.2%	42.93	89.0%	102.9%	63,770	-37.9%
FY21	228,544	32,677	25,758	58,435	-43.1%	43.28	91.5%	101.3%	56,002	-45.5%
FY22	228,544	37,742	26,198	63,941	-37.8%	46.75	100.4%	97.5%	63,443	-38.3%
FY23	228,544	55,863	27,168	83,031	-19.2%	47.58	105.2%	99.1%	85,676	-16.6%

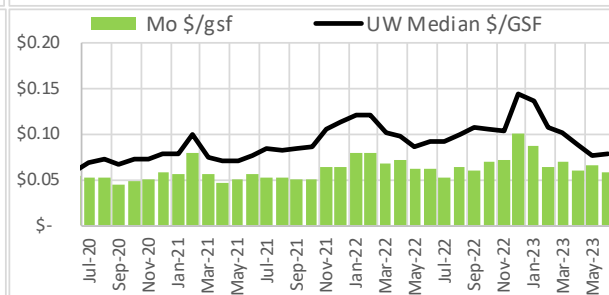
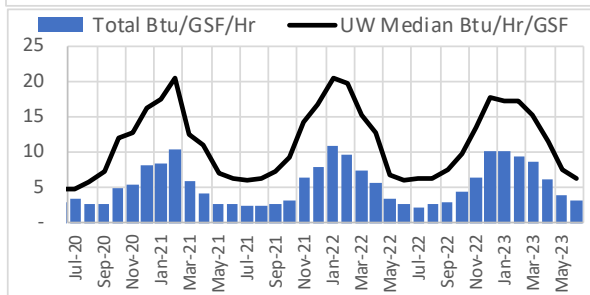
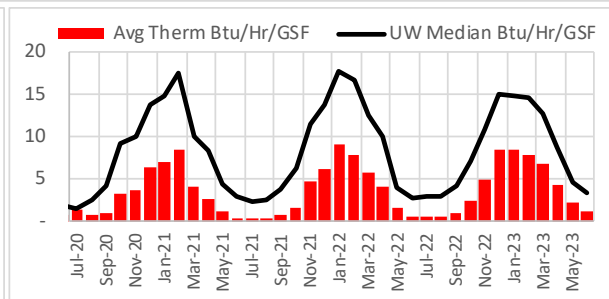
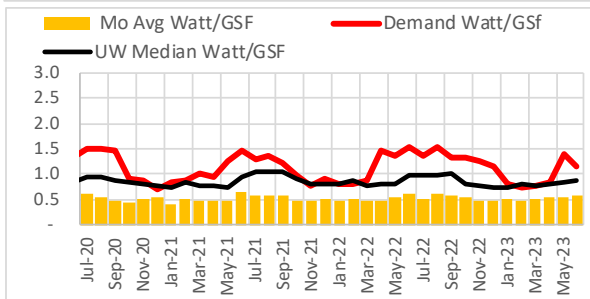
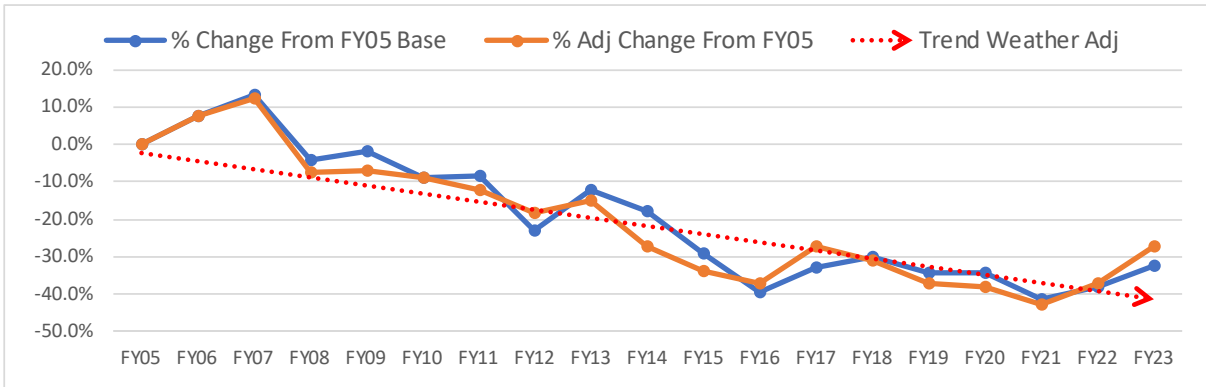
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Milwaukee, Washington Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.65		FY23 Therm/GSF = 0.35		FY23 Total Btu/GSF = 51,088		05-23 Thm -7.1%				
FY23 Electric \$/GSF = \$ 0.59		FY23 Thermal \$/GSF = \$ 0.24		FY23 Energy \$/GSF = \$ 0.83		05-23 kwh -52.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	169,454	42,195	33,126	75,321	0.0%	48.47	100.0%	100.0%	75,321	0.0%
FY06	169,454	46,780	34,158	80,938	7.5%	50.11	102.0%	98.1%	81,232	7.8%
FY07	169,454	50,861	34,547	85,408	13.4%	48.88	99.1%	99.0%	84,618	12.3%
FY08	198,558	42,876	29,150	72,025	-4.4%	47.87	94.4%	99.7%	69,542	-7.7%
FY09	198,558	44,340	29,522	73,862	-1.9%	47.26	91.2%	100.7%	70,142	-6.9%
FY10	199,038	40,945	27,554	68,499	-9.1%	49.10	100.7%	99.9%	68,770	-8.7%
FY11	199,038	41,534	27,541	69,075	-8.3%	48.17	93.1%	99.8%	66,177	-12.1%
FY12	199,038	30,582	27,342	57,924	-23.1%	52.24	112.2%	99.1%	61,417	-18.5%
FY13	199,038	38,382	27,744	66,127	-12.2%	48.26	94.5%	100.0%	64,002	-15.0%
FY14	199,038	41,719	20,034	61,753	-18.0%	45.20	83.9%	98.7%	54,761	-27.3%
FY15	199,038	34,038	19,362	53,400	-29.1%	46.08	89.5%	99.9%	49,794	-33.9%
FY16	199,038	25,957	19,679	45,636	-39.4%	50.51	107.0%	99.0%	47,270	-37.2%
FY17	199,038	31,220	19,507	50,727	-32.7%	51.99	114.6%	96.7%	54,651	-27.4%
FY18	199,038	34,018	18,802	52,820	-29.9%	48.73	98.1%	99.6%	52,104	-30.8%
FY19	199,038	31,956	17,491	49,448	-34.4%	47.88	94.1%	99.6%	47,495	-36.9%
FY20	199,117	32,724	16,949	49,673	-34.1%	46.54	89.6%	101.4%	46,502	-38.3%
FY21	199,117	28,832	15,447	44,279	-41.2%	47.13	96.3%	100.3%	43,257	-42.6%
FY22	199,117	31,082	15,622	46,705	-38.0%	50.90	103.5%	98.2%	47,507	-36.9%
FY23	199,117	35,235	15,854	51,088	-32.2%	51.09	111.2%	98.7%	54,831	-27.2%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*

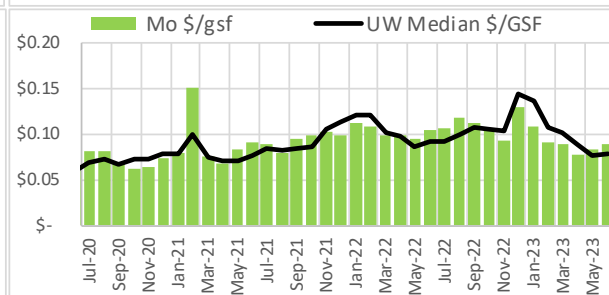
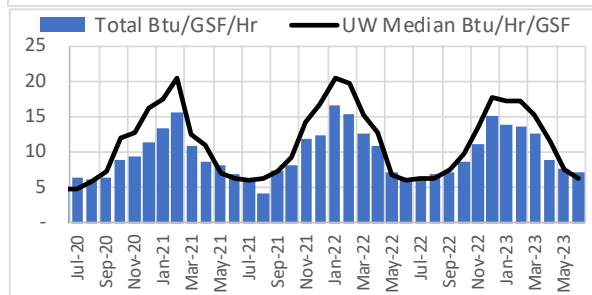
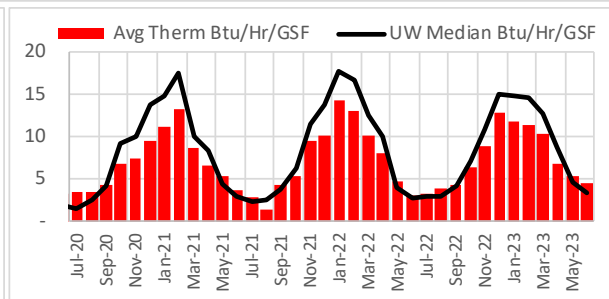
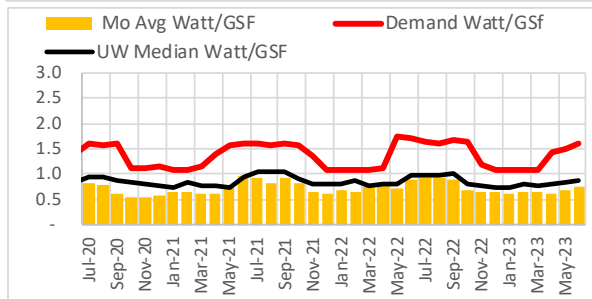
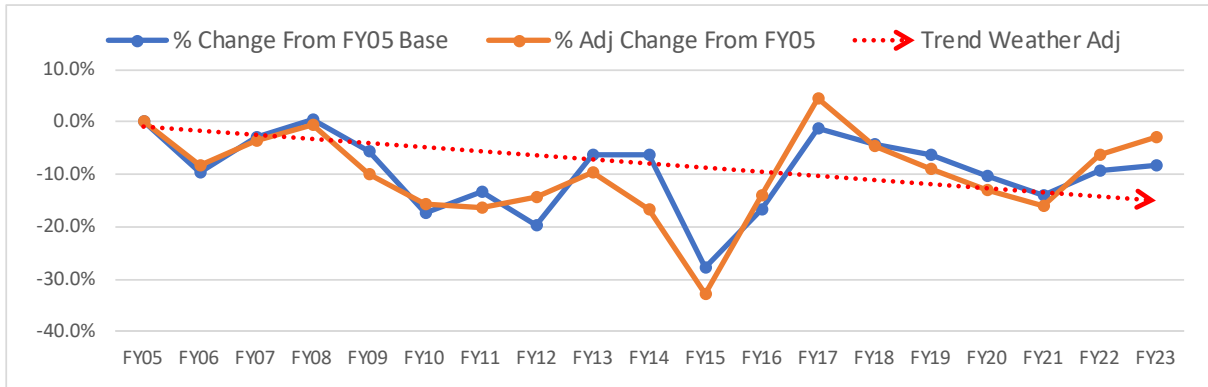




### UW-Milwaukee, Waukesha Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 6.42		FY23 Therm/GSF = 0.65		FY23 Total Btu/GSF = 86,883		05-23 Thm 17.6%				
FY23 Electric \$/GSF = \$ 0.79		FY23 Thermal \$/GSF = \$ 0.41		FY23 Energy \$/GSF = \$ 1.20		05-23 kwh -37.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	263,050	59,760	34,992	94,752	0.0%	48.47	100.0%	100.0%	94,752	0.0%
FY06	263,050	52,661	33,092	85,753	-9.5%	50.11	102.8%	98.8%	86,831	-8.4%
FY07	263,050	55,815	36,245	92,059	-2.8%	48.88	99.0%	99.4%	91,291	-3.7%
FY08	272,406	58,675	36,652	95,326	0.6%	47.87	97.7%	100.4%	94,136	-0.7%
FY09	272,406	53,629	35,933	89,562	-5.5%	47.26	92.3%	99.8%	85,370	-9.9%
FY10	277,016	45,765	32,703	78,468	-17.2%	49.10	103.5%	99.8%	79,998	-15.6%
FY11	277,016	49,128	32,983	82,111	-13.3%	48.17	94.6%	99.3%	79,235	-16.4%
FY12	277,016	42,752	33,404	76,156	-19.6%	52.24	112.4%	98.9%	81,105	-14.4%
FY13	277,016	53,059	35,698	88,757	-6.3%	48.26	94.9%	99.3%	85,802	-9.4%
FY14	277,016	59,934	28,837	88,771	-6.3%	45.20	84.4%	98.2%	78,891	-16.7%
FY15	277,016	44,801	23,490	68,292	-27.9%	46.08	90.2%	99.7%	63,824	-32.6%
FY16	277,016	52,792	26,213	79,005	-16.6%	50.51	104.9%	99.1%	81,389	-14.1%
FY17	277,016	66,802	26,902	93,704	-1.1%	51.99	109.1%	96.9%	98,937	4.4%
FY18	277,016	65,532	25,295	90,827	-4.1%	48.73	99.7%	99.7%	90,587	-4.4%
FY19	277,016	64,831	23,859	88,690	-6.4%	47.88	96.9%	98.9%	86,389	-8.8%
FY20	277,016	63,592	21,444	85,036	-10.3%	46.54	95.8%	101.2%	82,589	-12.8%
FY21	277,016	61,022	20,424	81,446	-14.0%	47.13	96.8%	100.7%	79,622	-16.0%
FY22	277,016	62,866	23,043	85,909	-9.3%	50.90	105.2%	98.3%	88,770	-6.3%
FY23	277,016	64,963	21,920	86,883	-8.3%	51.09	108.2%	99.3%	92,051	-2.9%

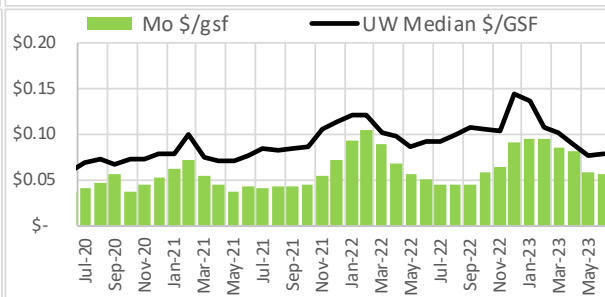
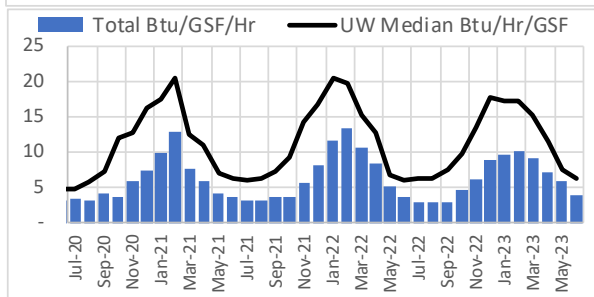
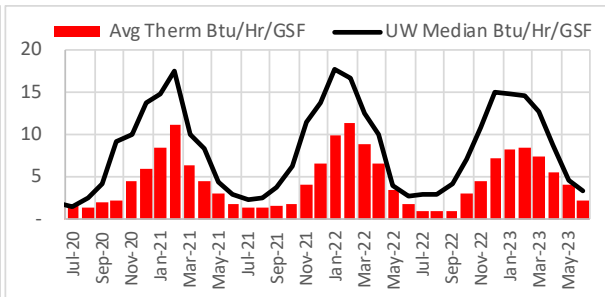
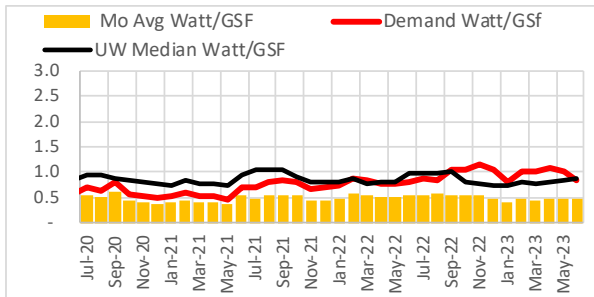
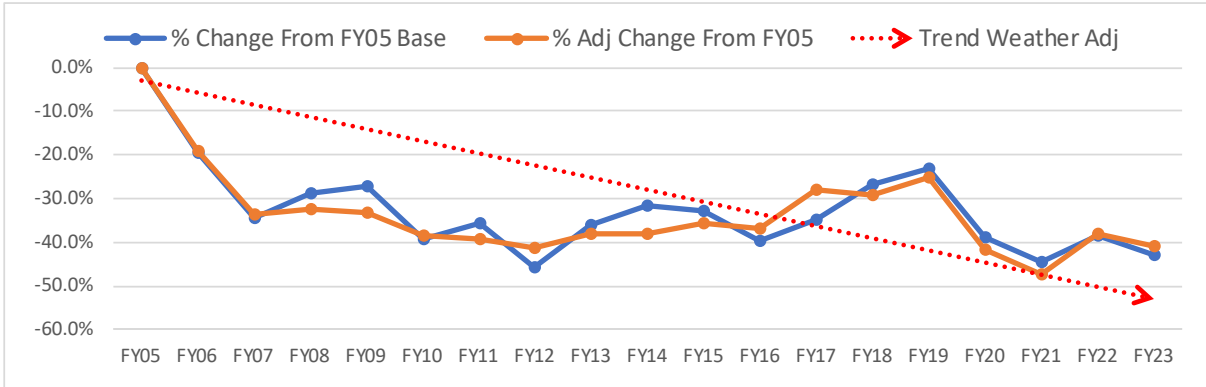
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Oshkosh, Fond du Lac Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.43		FY23 Therm/GSF = 0.39		FY23 Total Btu/GSF = 53,835		05-23 Thm -29.5%				
FY23 Electric \$/GSF = \$ 0.49		FY23 Thermal \$/GSF = \$ 0.33		FY23 Energy \$/GSF = \$ 0.82		05-23 kwh -58.7%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	194,077	57,697	36,356	94,053	0.0%	45.92	100.0%	100.0%	94,053	0.0%
FY06	194,077	44,930	30,608	75,537	-19.7%	47.27	102.3%	98.9%	76,257	-18.9%
FY07	194,077	36,836	24,766	61,603	-34.5%	46.64	102.1%	100.2%	62,415	-33.6%
FY08	194,077	41,626	25,281	66,908	-28.9%	45.02	92.0%	99.7%	63,477	-32.5%
FY09	194,077	42,786	25,535	68,320	-27.4%	43.47	87.7%	99.5%	62,949	-33.1%
FY10	194,077	36,351	20,926	57,277	-39.1%	45.99	101.5%	99.7%	57,764	-38.6%
FY11	194,077	39,422	21,010	60,433	-35.7%	44.59	91.9%	99.9%	57,224	-39.2%
FY12	194,077	31,245	19,651	50,896	-45.9%	49.86	114.6%	99.0%	55,267	-41.2%
FY13	194,077	40,447	19,644	60,091	-36.1%	45.29	95.7%	99.7%	58,276	-38.0%
FY14	194,077	44,739	19,695	64,434	-31.5%	41.95	85.8%	101.2%	58,311	-38.0%
FY15	194,077	44,074	18,942	63,016	-33.0%	43.98	95.0%	99.4%	60,704	-35.5%
FY16	194,077	39,516	17,317	56,833	-39.6%	48.11	106.7%	99.6%	59,408	-36.8%
FY17	194,077	42,762	18,639	61,401	-34.7%	48.65	114.3%	100.7%	67,651	-28.1%
FY18	194,077	50,729	18,106	68,835	-26.8%	45.77	95.9%	99.1%	66,587	-29.2%
FY19	194,077	53,974	18,275	72,249	-23.2%	44.89	97.0%	99.3%	70,494	-25.0%
FY20	194,077	41,080	16,604	57,684	-38.7%	42.93	92.3%	101.7%	54,796	-41.7%
FY21	194,077	38,621	13,573	52,194	-44.5%	43.28	92.4%	101.8%	49,526	-47.3%
FY22	194,077	42,531	15,464	57,995	-38.3%	46.75	100.3%	99.7%	58,085	-38.2%
FY23	194,077	38,716	15,119	53,835	-42.8%	47.58	105.0%	99.3%	55,678	-40.8%

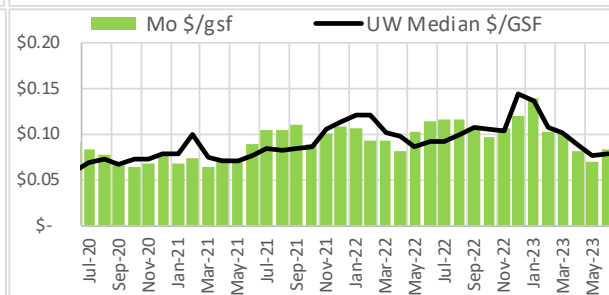
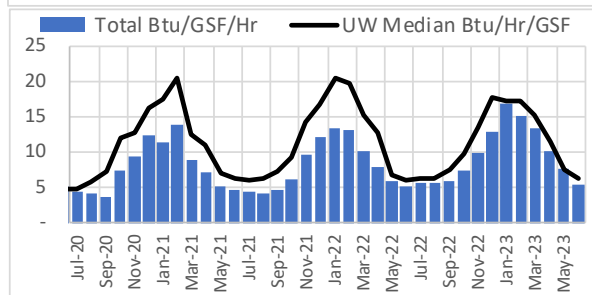
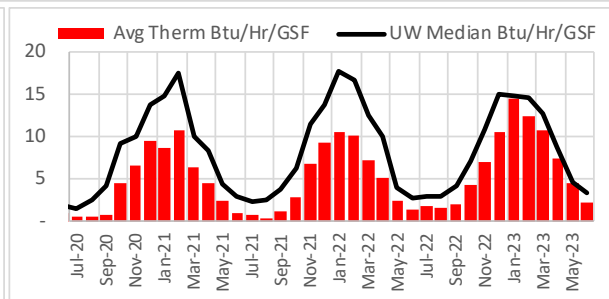
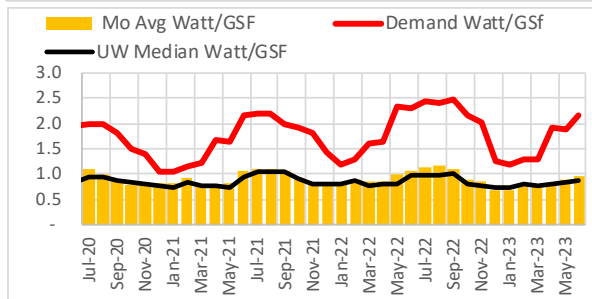
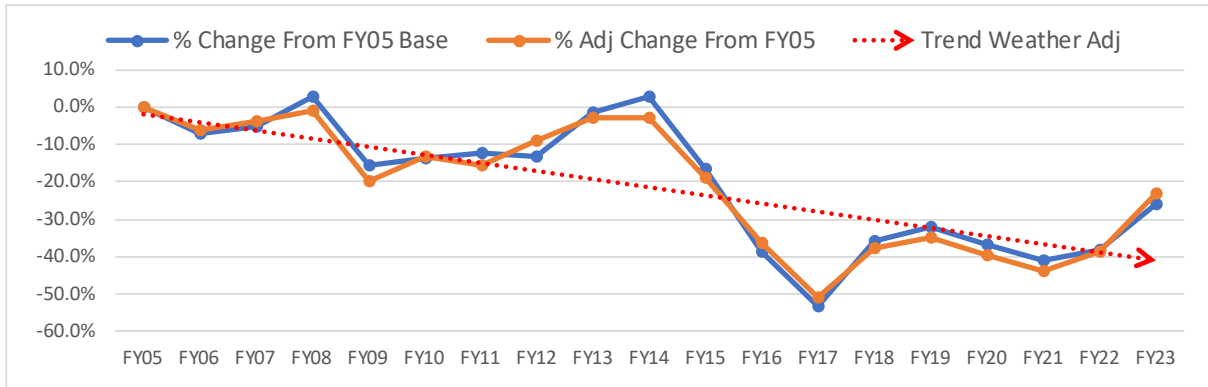
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Oshkosh, Fox Cities Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.83		FY23 Therm/GSF = 0.57		FY23 Total Btu/GSF = 84,198		05-23 Thm -23.9%				
FY23 Electric \$/GSF = \$ 0.81		FY23 Thermal \$/GSF = \$ 0.42		FY23 Energy \$/GSF = \$ 1.24		05-23 kwh -20.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	203,270	80,764	33,160	113,923	0.0%	45.92	100.0%	100.0%	113,923	0.0%
FY06	203,270	65,846	39,731	105,577	-7.3%	47.27	102.7%	99.2%	107,052	-6.0%
FY07	203,270	68,865	39,388	108,253	-5.0%	46.64	101.7%	99.9%	109,408	-4.0%
FY08	202,478	74,578	42,567	117,146	2.8%	45.02	94.3%	100.2%	112,991	-0.8%
FY09	272,978	59,785	36,633	96,419	-15.4%	43.47	90.5%	101.3%	91,235	-19.9%
FY10	274,078	56,536	41,976	98,513	-13.5%	45.99	100.2%	100.4%	98,792	-13.3%
FY11	274,078	57,431	42,594	100,025	-12.2%	44.59	93.6%	99.6%	96,165	-15.6%
FY12	274,078	54,816	44,063	98,879	-13.2%	49.86	110.6%	98.0%	103,831	-8.9%
FY13	274,078	65,656	46,393	112,049	-1.6%	45.29	98.2%	99.9%	110,864	-2.7%
FY14	274,078	69,664	47,498	117,161	2.8%	41.95	90.7%	99.5%	110,430	-3.1%
FY15	274,078	53,826	41,276	95,102	-16.5%	43.98	95.5%	100.0%	92,680	-18.6%
FY16	274,078	35,864	34,150	70,014	-38.5%	48.11	107.5%	99.6%	72,583	-36.3%
FY17	274,078	22,230	31,080	53,310	-53.2%	48.65	113.3%	99.3%	56,054	-50.8%
FY18	274,078	40,306	32,886	73,192	-35.8%	45.77	95.1%	100.0%	71,200	-37.5%
FY19	274,078	39,969	37,308	77,277	-32.2%	44.89	92.6%	99.9%	74,271	-34.8%
FY20	277,988	39,363	32,504	71,867	-36.9%	42.93	89.5%	103.8%	68,958	-39.5%
FY21	277,988	40,571	26,488	67,058	-41.1%	43.28	91.9%	101.5%	64,178	-43.7%
FY22	277,988	42,031	28,245	70,275	-38.3%	46.75	99.5%	98.6%	69,680	-38.8%
FY23	277,988	57,470	26,728	84,198	-26.1%	47.58	106.9%	98.7%	87,810	-22.9%

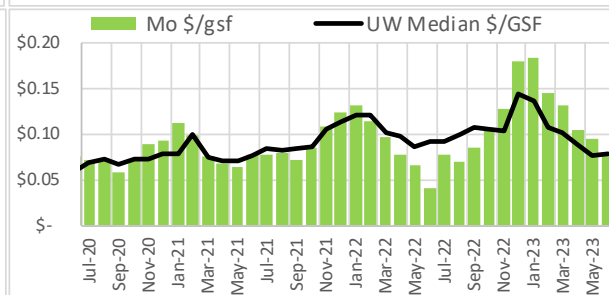
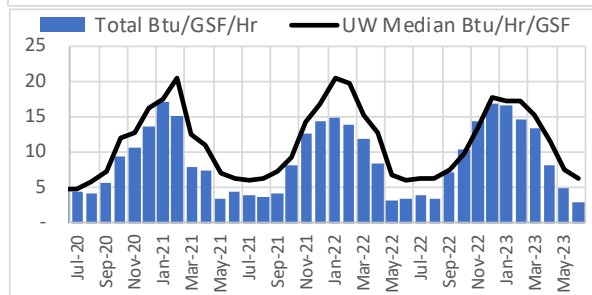
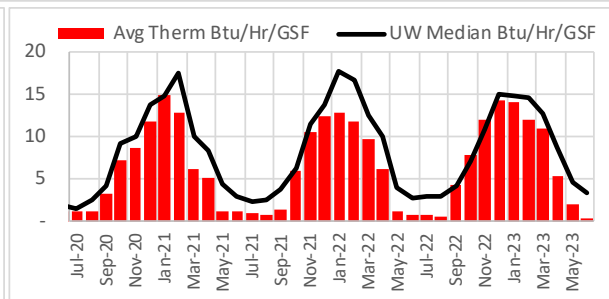
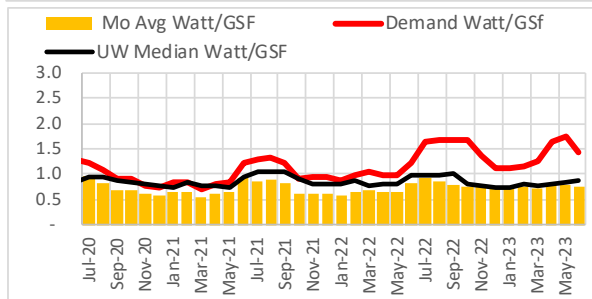
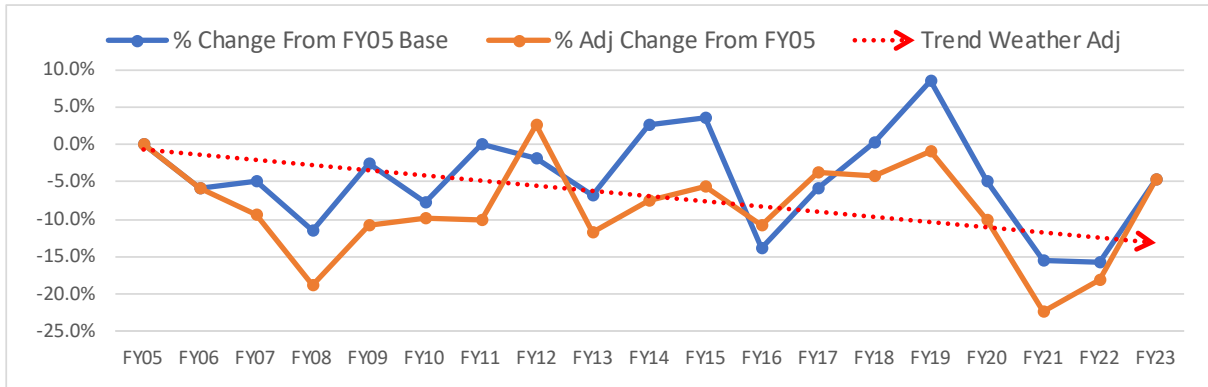
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Platteville, Baraboo Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 6.89		FY23 Therm/GSF = 0.61		FY23 Total Btu/GSF = 84,744		05-23 Thm 1.8%				
FY23 Electric \$/GSF = \$ 0.86		FY23 Thermal \$/GSF = \$ 0.53		FY23 Energy \$/GSF = \$ 1.38		05-23 kwh -18.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	150,015	60,075	28,748	88,823	0.0%	48.12	100.0%	100.0%	88,823	0.0%
FY06	150,015	54,757	28,857	83,615	-5.9%	48.65	100.6%	99.2%	83,683	-5.8%
FY07	150,015	57,135	27,415	84,550	-4.8%	47.46	93.1%	99.7%	80,523	-9.3%
FY08	150,015	48,670	29,922	78,592	-11.5%	46.19	86.9%	99.9%	72,186	-18.7%
FY09	150,015	56,230	30,295	86,525	-2.6%	45.66	87.1%	100.2%	79,327	-10.7%
FY10	151,015	52,354	29,593	81,947	-7.7%	47.10	96.4%	100.1%	80,073	-9.9%
FY11	151,015	55,820	33,110	88,929	0.1%	46.81	84.6%	98.3%	79,780	-10.2%
FY12	151,015	52,615	34,488	87,103	-1.9%	51.51	108.5%	98.9%	91,172	2.6%
FY13	151,015	53,076	29,661	82,736	-6.9%	47.29	92.6%	98.9%	78,472	-11.7%
FY14	151,015	65,370	25,787	91,157	2.6%	44.58	86.3%	100.0%	82,181	-7.5%
FY15	151,015	65,936	25,972	91,909	3.5%	45.84	88.2%	99.2%	83,910	-5.5%
FY16	165,615	51,856	24,668	76,524	-13.8%	49.68	105.5%	99.5%	79,225	-10.8%
FY17	165,615	59,758	23,864	83,623	-5.9%	49.72	103.9%	98.6%	85,614	-3.6%
FY18	165,615	64,858	24,239	89,097	0.3%	46.66	93.7%	100.1%	85,024	-4.3%
FY19	165,615	71,254	25,068	96,321	8.4%	45.88	88.4%	99.8%	88,044	-0.9%
FY20	179,291	60,692	23,864	84,555	-4.8%	44.43	91.3%	102.8%	79,965	-10.0%
FY21	179,291	54,207	20,810	75,018	-15.5%	43.38	87.7%	103.2%	69,017	-22.3%
FY22	179,291	53,666	21,130	74,796	-15.8%	48.04	96.7%	98.8%	72,778	-18.1%
FY23	179,291	61,232	23,512	84,744	-4.6%	48.64	99.9%	99.8%	84,654	-4.7%

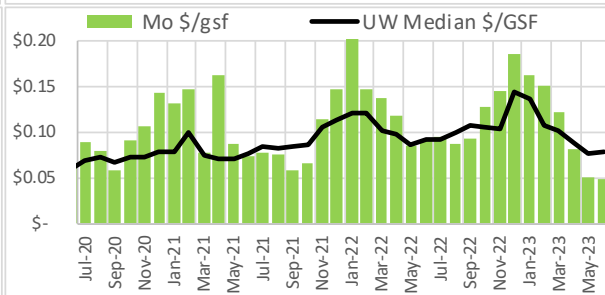
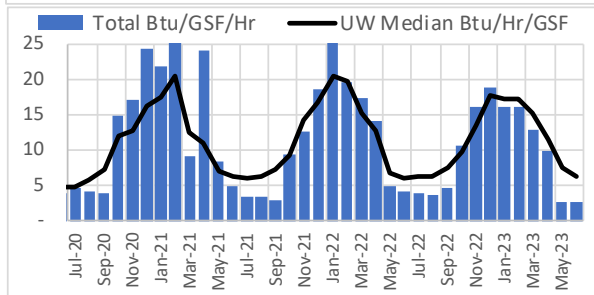
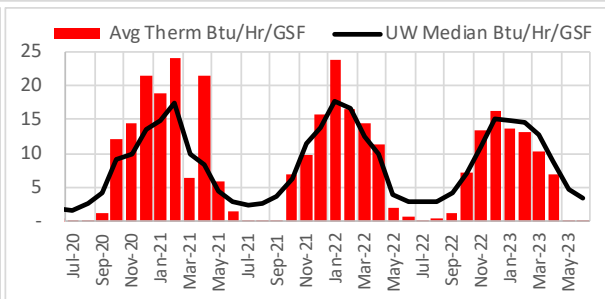
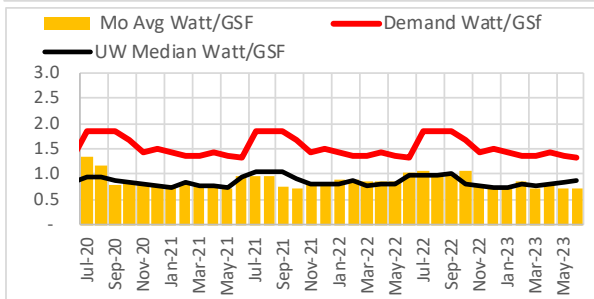
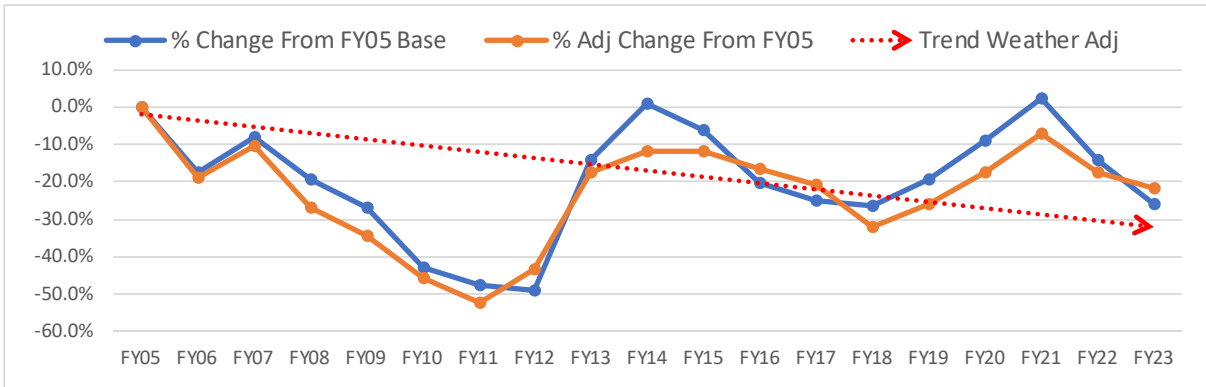
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Platteville, Richland Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.51		FY23 Therm/GSF = 0.60		FY23 Total Btu/GSF = 85,952		05-23 Thm -21.8%				
FY23 Electric \$/GSF = \$ 0.78		FY23 Thermal \$/GSF = \$ 0.57		FY23 Energy \$/GSF = \$ 1.35		05-23 kwh -21.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	95,461	84,023	32,229	116,252	0.0%	46.84	100.0%	100.0%	116,252	0.0%
FY06	95,461	61,755	33,997	95,752	-17.6%	47.39	98.2%	99.3%	94,418	-18.8%
FY07	95,461	73,106	33,885	106,991	-8.0%	46.26	96.8%	99.0%	104,339	-10.2%
FY08	101,990	63,338	30,431	93,768	-19.3%	44.24	86.7%	98.7%	84,929	-26.9%
FY09	101,900	66,571	18,400	84,971	-26.9%	44.25	86.7%	99.2%	75,999	-34.6%
FY10	108,760	49,298	17,232	66,530	-42.8%	45.47	92.6%	100.0%	62,903	-45.9%
FY11	108,760	43,371	17,330	60,701	-47.8%	46.21	88.2%	98.8%	55,380	-52.4%
FY12	108,760	41,968	17,345	59,313	-49.0%	51.40	115.2%	100.5%	65,764	-43.4%
FY13	108,760	60,556	39,069	99,626	-14.3%	46.61	94.3%	98.9%	95,746	-17.6%
FY14	108,760	78,408	39,020	117,429	1.0%	43.20	82.1%	97.8%	102,553	-11.8%
FY15	108,760	73,526	35,442	108,968	-6.3%	44.37	90.9%	100.4%	102,452	-11.9%
FY16	108,760	56,166	36,567	92,733	-20.2%	48.82	108.2%	99.7%	97,234	-16.4%
FY17	108,760	54,662	32,340	87,002	-25.2%	49.01	110.6%	97.9%	92,136	-20.7%
FY18	108,760	55,612	29,696	85,309	-26.6%	45.93	88.9%	98.9%	78,782	-32.2%
FY19	108,760	63,218	30,657	93,875	-19.2%	44.97	87.9%	99.3%	85,985	-26.0%
FY20	104,825	77,195	28,826	106,022	-8.8%	43.71	86.5%	100.4%	95,736	-17.6%
FY21	104,825	92,018	26,709	118,727	2.1%	43.00	87.7%	101.5%	107,835	-7.2%
FY22	104,825	74,001	25,845	99,847	-14.1%	46.88	95.0%	98.6%	95,807	-17.6%
FY23	104,825	60,314	25,638	85,952	-26.1%	51.09	108.9%	98.9%	91,034	-21.7%

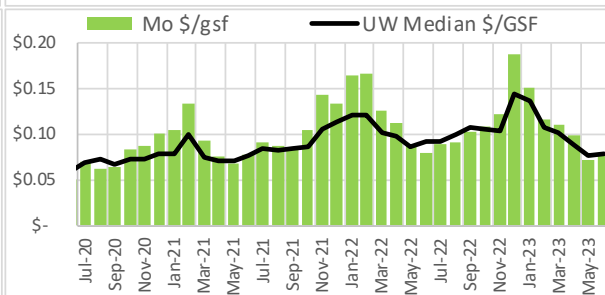
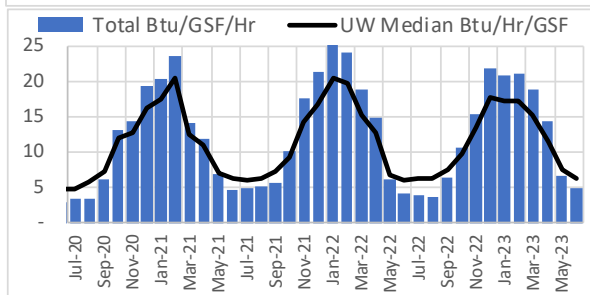
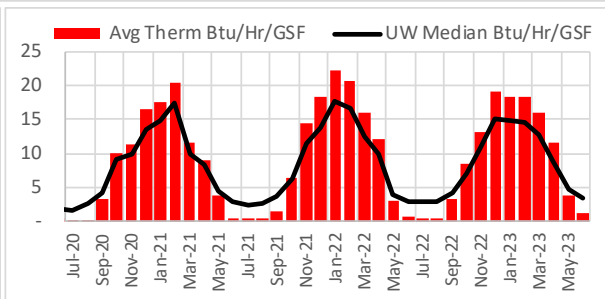
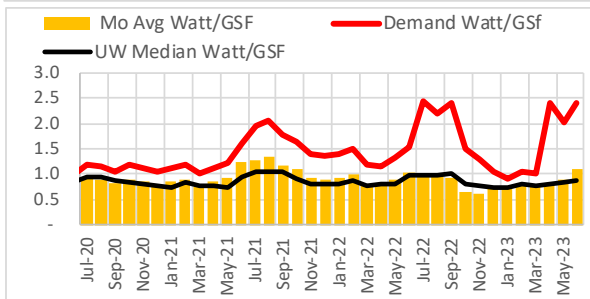
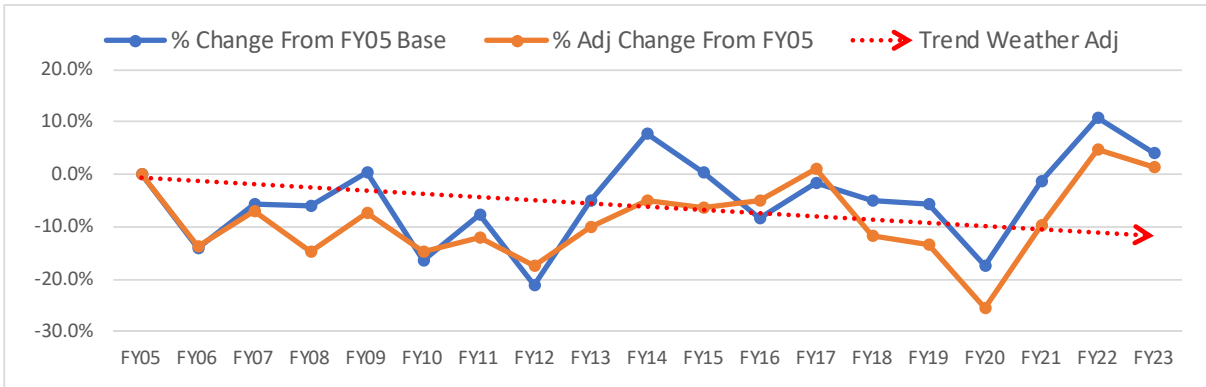
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Stevens Point, Marshfield Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.28		FY23 Therm/GSF = 0.83		FY23 Total Btu/GSF = 107,974		05-23 Thm 8.4%				
FY23 Electric \$/GSF = \$ 0.76		FY23 Thermal \$/GSF = \$ 0.57		FY23 Energy \$/GSF = \$ 1.33		05-23 kwh -15.7%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	145,016	74,182	29,668	103,850	0.0%	44.26	100.0%	100.0%	103,850	0.0%
FY06	145,016	58,572	30,750	89,322	-14.0%	45.56	101.0%	99.6%	89,766	-13.6%
FY07	145,016	68,277	29,734	98,011	-5.6%	44.50	97.9%	99.9%	96,544	-7.0%
FY08	141,598	69,599	27,941	97,540	-6.1%	42.10	86.7%	100.4%	88,417	-14.9%
FY09	136,616	73,370	30,941	104,311	0.4%	42.50	89.0%	100.4%	96,397	-7.2%
FY10	149,996	59,028	27,930	86,958	-16.3%	45.38	102.6%	99.5%	88,376	-14.9%
FY11	149,996	67,684	28,222	95,906	-7.6%	43.50	93.3%	99.9%	91,312	-12.1%
FY12	149,996	54,485	27,409	81,894	-21.1%	47.63	107.1%	99.9%	85,732	-17.4%
FY13	149,996	68,181	30,344	98,525	-5.1%	42.87	92.4%	100.3%	93,439	-10.0%
FY14	149,996	81,584	30,211	111,795	7.7%	39.97	83.7%	100.4%	98,637	-5.0%
FY15	149,996	75,601	28,584	104,186	0.3%	42.20	91.2%	99.8%	97,426	-6.2%
FY16	149,996	63,764	31,491	95,255	-8.3%	46.23	105.8%	99.5%	98,788	-4.9%
FY17	149,996	69,976	32,102	102,078	-1.7%	45.86	104.5%	99.1%	104,955	1.1%
FY18	149,996	72,862	25,802	98,664	-5.0%	42.67	90.9%	98.9%	91,735	-11.7%
FY19	149,996	73,596	24,235	97,831	-5.8%	41.78	89.4%	99.5%	89,920	-13.4%
FY20	153,555	64,446	21,331	85,777	-17.4%	39.87	85.7%	103.0%	77,227	-25.6%
FY21	153,555	75,608	26,844	102,452	-1.3%	40.53	88.4%	100.9%	93,895	-9.6%
FY22	153,555	84,641	30,357	114,998	10.7%	43.09	93.3%	98.4%	108,852	4.8%
FY23	153,555	83,116	24,858	107,974	4.0%	44.12	96.8%	100.7%	105,475	1.6%

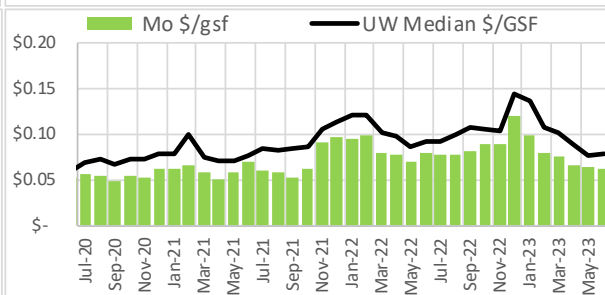
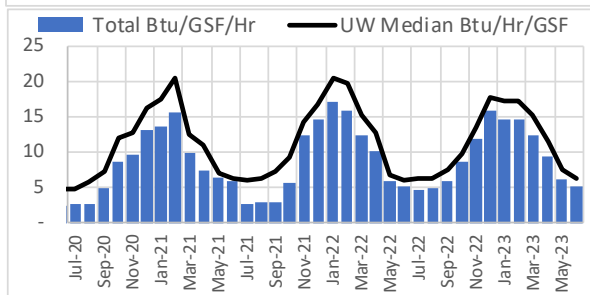
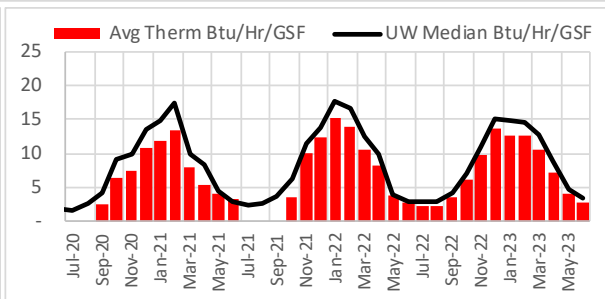
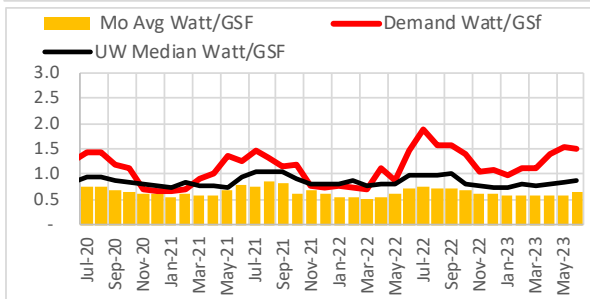
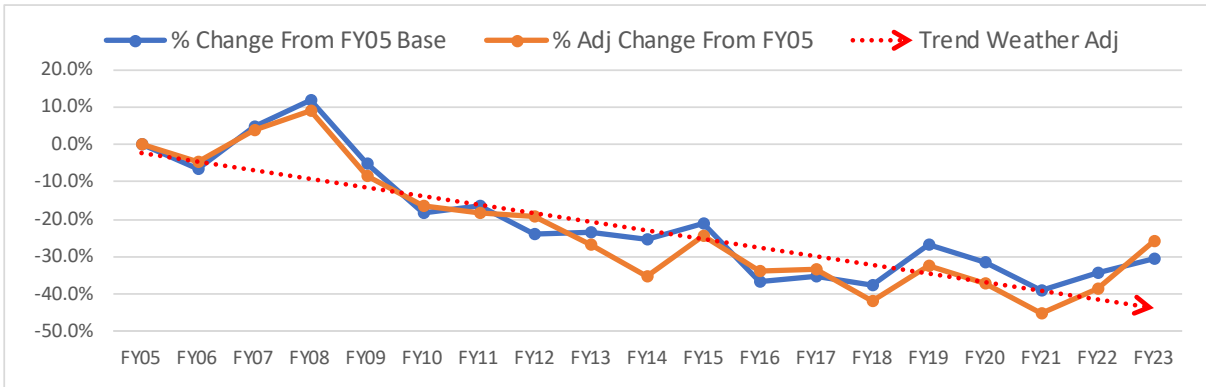
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Stevens Point, Wausau Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.60		FY23 Therm/GSF = 0.64		FY23 Total Btu/GSF = 82,896		05-23 Thm -16.4%				
FY23 Electric \$/GSF = \$ 0.59		FY23 Thermal \$/GSF = \$ 0.39		FY23 Energy \$/GSF = \$ 0.98		05-23 kwh -47.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	286,421	83,471	36,007	119,478	0.0%	44.26	100.0%	100.0%	119,478	0.0%
FY06	286,421	75,819	35,945	111,764	-6.5%	45.56	102.9%	99.4%	113,780	-4.8%
FY07	286,421	82,286	42,725	125,011	4.6%	44.50	98.8%	99.7%	123,859	3.7%
FY08	290,650	98,146	35,457	133,604	11.8%	42.10	96.1%	100.9%	130,082	8.9%
FY09	290,650	79,697	33,568	113,265	-5.2%	42.50	95.2%	99.4%	109,219	-8.6%
FY10	327,695	66,441	31,002	97,443	-18.4%	45.38	104.0%	99.7%	100,021	-16.3%
FY11	327,695	69,285	30,634	99,919	-16.4%	43.50	96.4%	100.5%	97,550	-18.4%
FY12	327,695	59,969	31,194	91,164	-23.7%	47.63	110.1%	98.6%	96,763	-19.0%
FY13	327,695	64,326	26,851	91,177	-23.7%	42.87	94.5%	100.3%	87,732	-26.6%
FY14	327,695	62,455	26,642	89,097	-25.4%	39.97	81.7%	99.5%	77,557	-35.1%
FY15	327,695	66,883	27,637	94,520	-20.9%	42.20	93.7%	99.1%	90,068	-24.6%
FY16	327,695	49,833	25,793	75,626	-36.7%	46.23	107.4%	98.9%	79,054	-33.8%
FY17	327,695	52,758	24,624	77,383	-35.2%	45.86	104.2%	99.7%	79,512	-33.5%
FY18	327,695	50,451	24,061	74,512	-37.6%	42.67	90.3%	99.3%	69,448	-41.9%
FY19	327,695	63,910	23,627	87,537	-26.7%	41.78	89.9%	99.2%	80,898	-32.3%
FY20	327,695	61,484	20,329	81,813	-31.5%	39.87	88.4%	102.1%	75,118	-37.1%
FY21	327,695	53,211	19,522	72,733	-39.1%	40.53	86.1%	102.1%	65,735	-45.0%
FY22	327,695	58,661	19,583	78,244	-34.5%	43.09	92.2%	99.6%	73,621	-38.4%
FY23	327,695	63,783	19,113	82,896	-30.6%	51.09	109.4%	99.3%	88,746	-25.7%

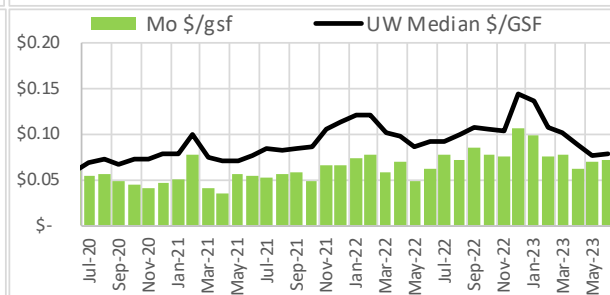
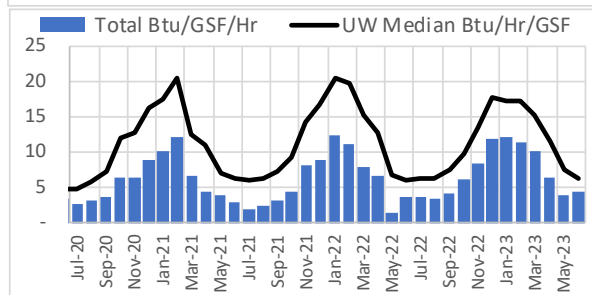
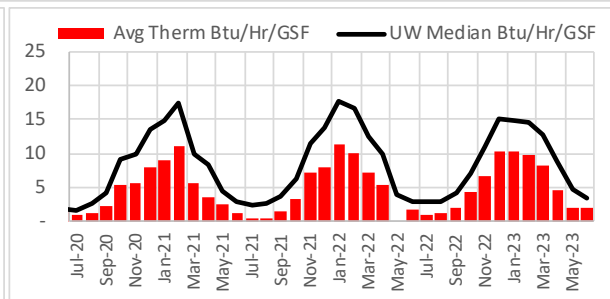
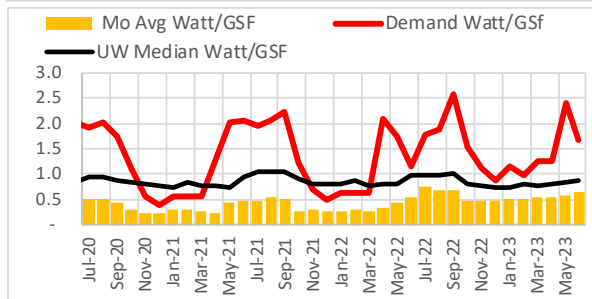
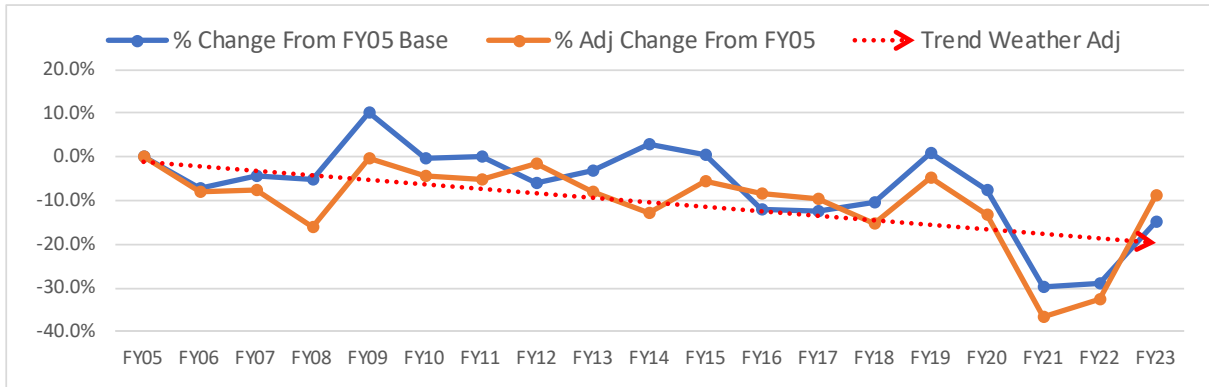
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### UW-Whitewater, Rock Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.09		FY23 Therm/GSF = 0.45		FY23 Total Btu/GSF = 62,550		05-23 Thm 3.0%				
FY23 Electric \$/GSF = \$ 0.65		FY23 Thermal \$/GSF = \$ 0.30		FY23 Energy \$/GSF = \$ 0.95		05-23 kwh -31.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	145,560	48,489	24,956	73,445	0.0%	48.12	100.0%	100.0%	73,445	0.0%
FY06	145,560	43,901	24,404	68,306	-7.0%	48.65	98.5%	99.4%	67,505	-8.1%
FY07	145,560	45,778	24,629	70,407	-4.1%	47.46	94.9%	99.6%	67,972	-7.5%
FY08	185,625	48,518	21,252	69,770	-5.0%	46.19	84.2%	98.0%	61,709	-16.0%
FY09	185,625	61,813	19,134	80,947	10.2%	45.66	87.4%	100.6%	73,242	-0.3%
FY10	191,592	53,702	19,567	73,268	-0.2%	47.10	94.3%	101.0%	70,386	-4.2%
FY11	191,592	55,115	18,398	73,513	0.1%	46.81	93.2%	99.0%	69,609	-5.2%
FY12	191,592	49,687	19,441	69,128	-5.9%	51.51	107.5%	97.5%	72,381	-1.4%
FY13	191,592	52,582	18,632	71,214	-3.0%	47.29	93.7%	99.1%	67,719	-7.8%
FY14	191,592	56,742	18,717	75,459	2.7%	44.58	80.2%	99.5%	64,137	-12.7%
FY15	191,592	55,612	18,293	73,905	0.6%	45.84	91.3%	101.0%	69,260	-5.7%
FY16	191,592	46,394	18,347	64,741	-11.9%	49.68	106.0%	98.5%	67,266	-8.4%
FY17	191,592	48,164	16,112	64,276	-12.5%	49.72	105.7%	96.9%	66,533	-9.4%
FY18	191,592	49,771	16,013	65,783	-10.4%	46.66	92.6%	100.5%	62,165	-15.4%
FY19	191,592	58,569	15,608	74,177	1.0%	45.88	92.9%	99.9%	70,002	-4.7%
FY20	191,592	53,489	14,263	67,751	-7.8%	44.43	91.2%	105.3%	63,780	-13.2%
FY21	191,592	40,889	10,760	51,649	-29.7%	43.38	85.9%	105.5%	46,467	-36.7%
FY22	191,592	40,915	11,407	52,322	-28.8%	48.04	93.5%	98.0%	49,449	-32.7%
FY23	191,592	45,174	17,377	62,550	-14.8%	51.09	110.5%	99.1%	67,148	-8.6%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*





# Agency Energy Use Summary

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State of Wisconsin

Department of Administration

## SCOPE

CAPITOL COMPLEX - Capitol Heat & Power Plant, Dept. of Administration Office Building; Dept. of Health Services Office Building; Risser Justice Center; GEF 1, 2 and 3; and Wisconsin State Capitol.

HILL FARMS COMPLEX - Hill Farms D/E/L; and State Transportation Building

SEPARATED FACILITIES - Badger Road Office Building; Eau Claire Office Building; Green Bay Office Building; La Crosse Office Building; Milwaukee Office Building; Milwaukee SE Crime Lab; State Agriculture Building; State Revenue Building; Waukesha Office Building; Wisconsin Public Broadcasting Center Building; Wisconsin Rapids Office Building; Air Services; and Executive Residence.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 26.1 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 9.3 percent increase**

Energy use (BTU/GSF/Yr) for FY23 increase 9.3 percent from the previous fiscal year, FY22.

**Average Annual Change - Weather Adjusted: 1.7 percent decrease per year.**

On average, energy use (BTU/GSF/Yr) has decrease 1.7 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

**GSF Change from Base: 4.4 percent increase.**

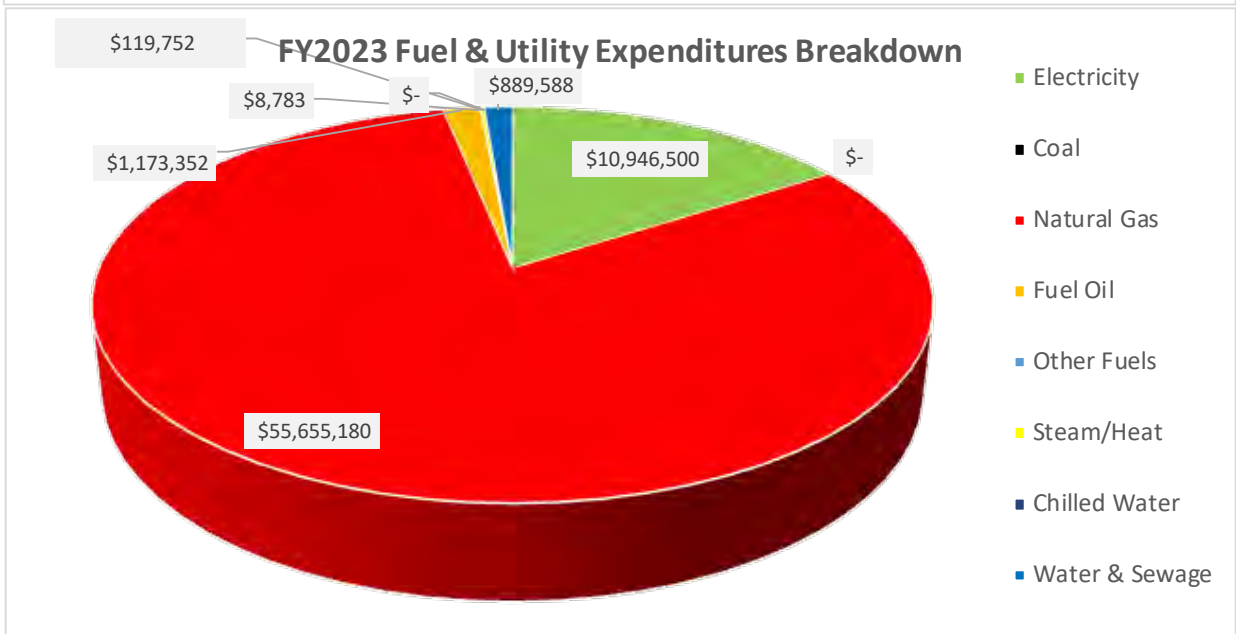
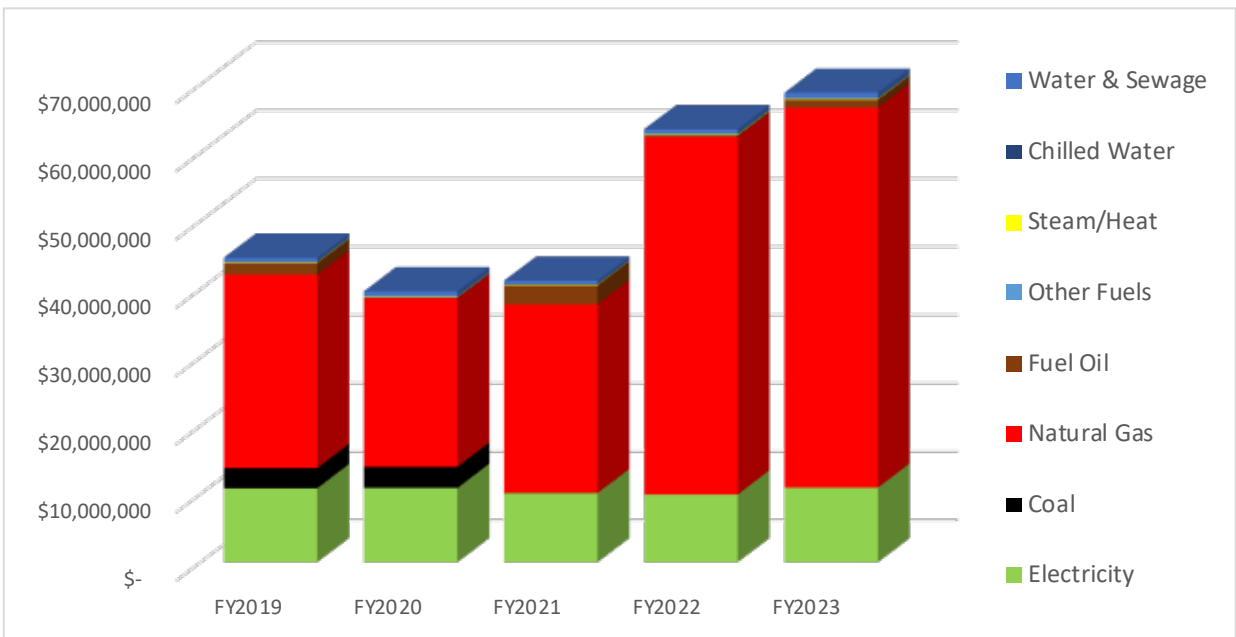
Gross square footage (GSF) has increased 4.4% from the base fiscal year, FY05.

**Consumption Change from Base: 23.6 percent decrease.**

Total consumption was 23.6 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 22.8 percent less than in the base year when adjusted for weather compared to FY05.

**Administration, Department of**

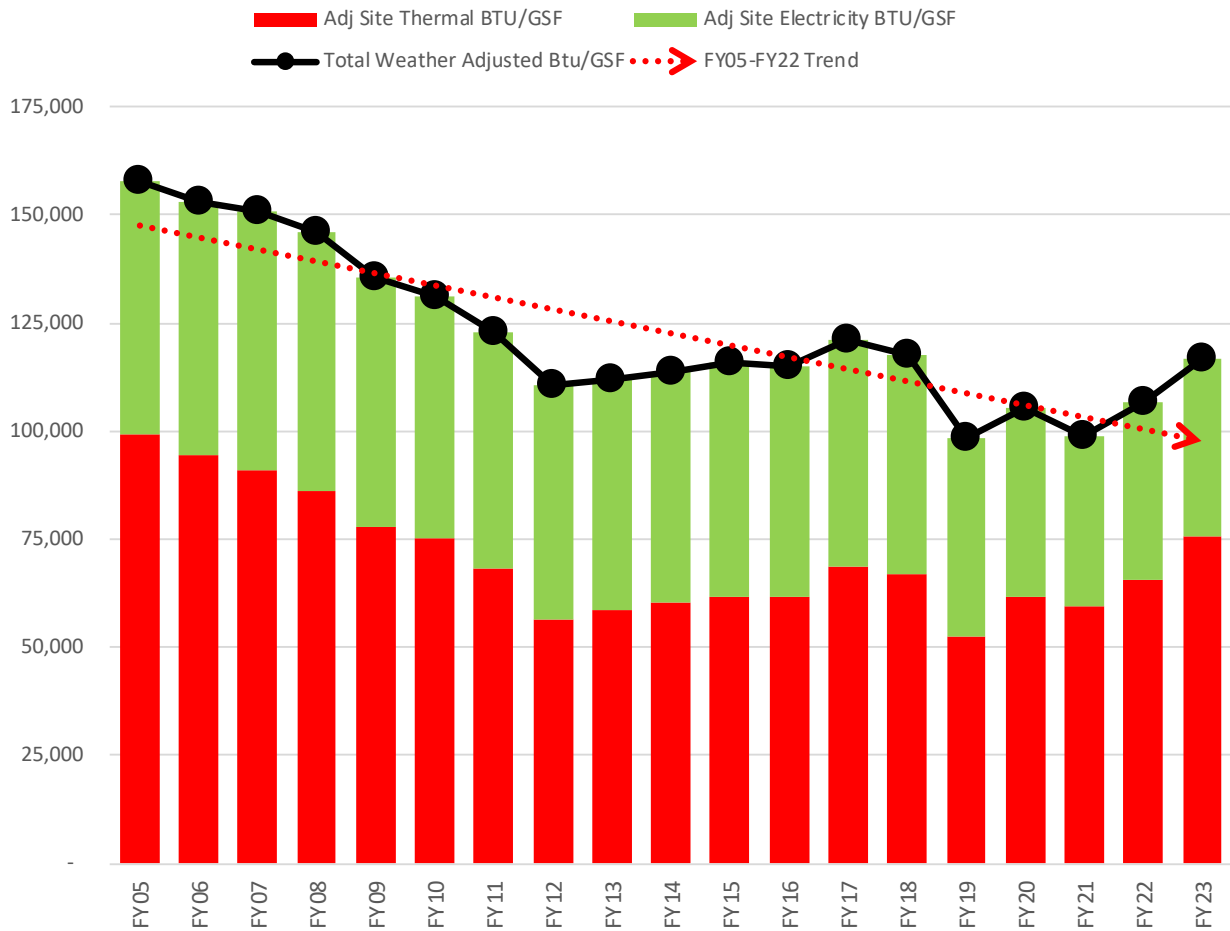
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 10,847,364	\$ 10,888,394	\$ 10,155,840	\$ 9,940,881	\$ 10,946,500
Coal	\$ 2,958,936	\$ 3,108,358	\$ 2,514	\$ -	\$ -
Natural Gas	\$ 28,360,269	\$ 24,689,024	\$ 27,653,934	\$ 52,406,728	\$ 55,655,180
Fuel Oil	\$ 1,658,946	\$ 70,110	\$ 2,754,871	\$ 185,511	\$ 1,173,352
Other Fuels	\$ 30,588	\$ 57,938	\$ 3,005	\$ 12,614	\$ 8,783
Steam/Heat	\$ 92,237	\$ 81,480	\$ 107,080	\$ 129,706	\$ 119,752
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 665,956	\$ 810,239	\$ 579,560	\$ 782,487	\$ 889,588
<b>Total Utilities</b>	<b>\$ 44,614,295</b>	<b>\$ 39,705,545</b>	<b>\$ 41,256,804</b>	<b>\$ 63,457,927</b>	<b>\$ 68,793,155</b>



**DOA Fiscal Year 2023 Total State Agency Total (FY2005 Base)**

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	4,027,132	99,221	58,619	157,840	0.0%	47.71	100.0%	100.0%	157,840	0.0%
FY06	4,027,132	97,337	59,097	156,433	-0.9%	48.66	97.0%	99.2%	153,043	-3.0%
FY07	4,084,119	92,767	59,943	152,710	-3.3%	47.49	98.2%	99.7%	150,878	-4.4%
FY08	4,084,119	93,655	60,610	154,265	-2.3%	46.02	91.9%	99.0%	146,080	-7.5%
FY09	4,084,119	84,493	58,124	142,617	-9.6%	45.49	92.3%	99.2%	135,687	-14.0%
FY10	4,084,119	76,185	55,782	131,967	-16.4%	47.20	98.5%	100.3%	131,005	-17.0%
FY11	4,084,119	74,014	54,937	128,951	-18.3%	46.55	92.5%	98.9%	122,787	-22.2%
FY12	4,084,119	52,651	54,928	107,579	-31.8%	51.20	107.6%	98.3%	110,685	-29.9%
FY13	4,084,119	61,282	53,710	114,992	-27.1%	46.87	95.6%	99.3%	111,904	-29.1%
FY14	4,166,958	70,189	53,524	123,713	-21.6%	44.12	86.1%	99.3%	113,570	-28.0%
FY15	4,019,258	65,725	53,965	119,689	-24.2%	45.50	94.0%	100.3%	115,861	-26.6%
FY16	4,019,258	58,978	53,698	112,676	-28.6%	49.49	104.6%	99.2%	114,968	-27.2%
FY17	4,019,258	66,010	53,476	119,485	-24.3%	49.79	104.0%	98.2%	121,126	-23.3%
FY18	3,968,416	70,801	51,303	122,103	-22.6%	46.63	94.3%	99.4%	117,719	-25.4%
FY19	4,202,931	55,998	46,168	102,167	-35.3%	45.78	93.5%	99.7%	98,393	-37.7%
FY20	4,202,931	61,855	43,941	105,796	-33.0%	48.14	99.9%	99.4%	105,473	-33.2%
FY21	4,202,931	61,322	39,961	101,283	-35.8%	47.74	97.2%	98.5%	98,961	-37.3%
FY22	4,202,931	66,677	42,188	108,865	-31.0%	48.04	98.2%	97.7%	106,743	-32.4%
FY23	4,202,931	74,254	41,346	115,599	-26.8%	48.84	101.8%	99.4%	116,711	-26.1%

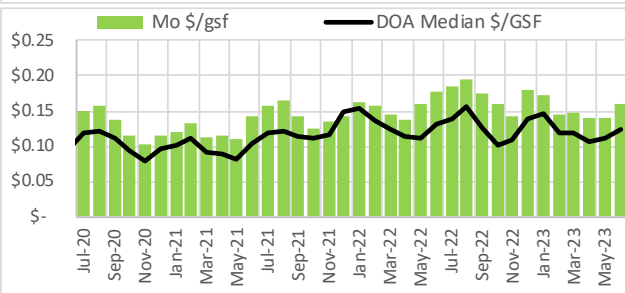
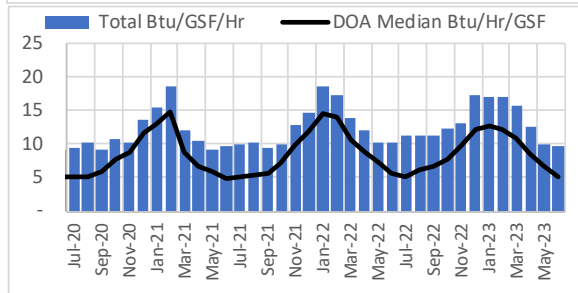
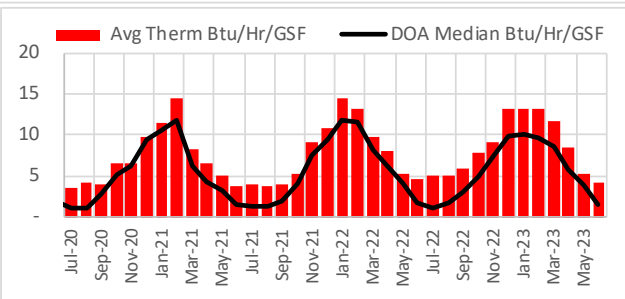
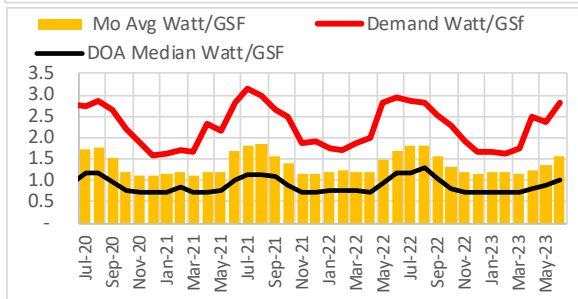
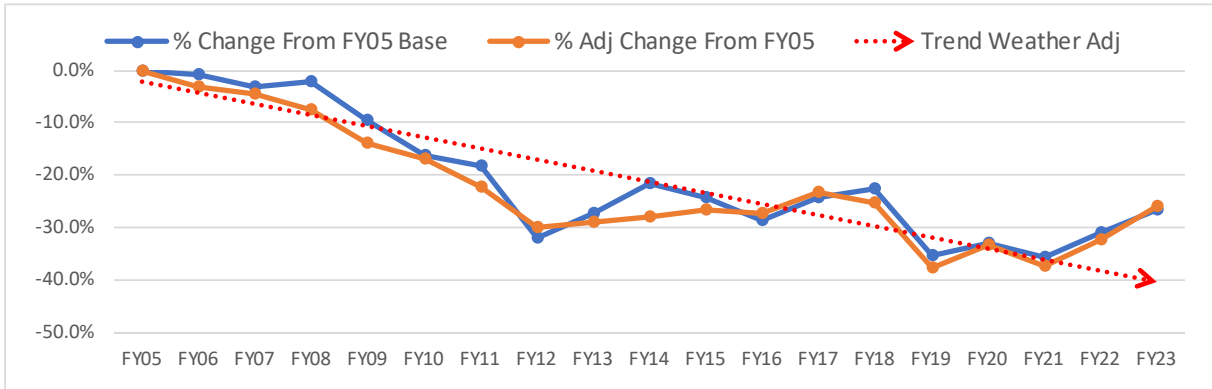
**Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)**



### DOA Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 12.11		FY23 Therm/GSF = 0.74		FY23 Total Btu/GSF = 115,599		05-23 Thm -23.8%				
FY23 Electric \$/GSF = \$ 1.47		FY23 Thermal \$/GSF = \$ 0.47		FY23 Energy \$/GSF = \$ 1.94		05-23 kwh -29.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	4,027,132	99,221	58,619	157,840	0.0%	47.71	100.0%	100.0%	157,840	0.0%
FY06	4,027,132	97,337	59,097	156,433	-0.9%	48.66	97.0%	99.2%	153,043	-3.0%
FY07	4,084,119	92,767	59,943	152,710	-3.3%	47.49	98.2%	99.7%	150,878	-4.4%
FY08	4,084,119	93,655	60,610	154,265	-2.3%	46.02	91.9%	99.0%	146,080	-7.5%
FY09	4,084,119	84,493	58,124	142,617	-9.6%	45.49	92.3%	99.2%	135,687	-14.0%
FY10	4,084,119	76,185	55,782	131,967	-16.4%	47.20	98.5%	100.3%	131,005	-17.0%
FY11	4,084,119	74,014	54,937	128,951	-18.3%	46.55	92.5%	98.9%	122,787	-22.2%
FY12	4,084,119	52,651	54,928	107,579	-31.8%	51.20	107.6%	98.3%	110,685	-29.9%
FY13	4,084,119	61,282	53,710	114,992	-27.1%	46.87	95.6%	99.3%	111,904	-29.1%
FY14	4,166,958	70,189	53,524	123,713	-21.6%	44.12	86.1%	99.3%	113,570	-28.0%
FY15	4,019,258	65,725	53,965	119,689	-24.2%	45.50	94.0%	100.3%	115,861	-26.6%
FY16	4,019,258	58,978	53,698	112,676	-28.6%	49.49	104.6%	99.2%	114,968	-27.2%
FY17	4,019,258	66,010	53,476	119,485	-24.3%	49.79	104.0%	98.2%	121,126	-23.3%
FY18	3,968,416	70,801	51,303	122,103	-22.6%	46.63	94.3%	99.4%	117,719	-25.4%
FY19	4,202,931	55,998	46,168	102,167	-35.3%	45.78	93.5%	99.7%	98,393	-37.7%
FY20	4,202,931	61,855	43,941	105,796	-33.0%	48.14	99.9%	99.4%	105,473	-33.2%
FY21	4,202,931	61,322	39,961	101,283	-35.8%	47.74	97.2%	98.5%	98,961	-37.3%
FY22	4,202,931	66,677	42,188	108,865	-31.0%	48.04	98.2%	97.7%	106,743	-32.4%
FY23	4,202,931	74,254	41,346	115,599	-26.8%	48.84	101.8%	99.4%	116,711	-26.1%

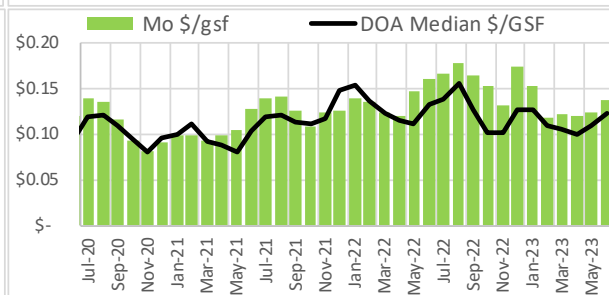
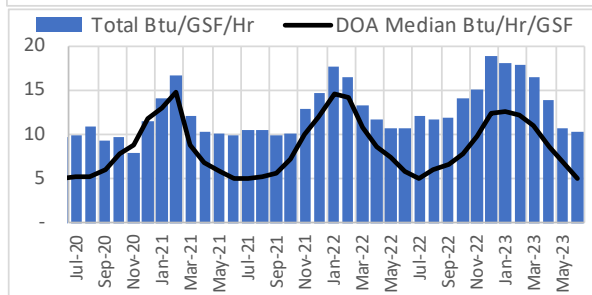
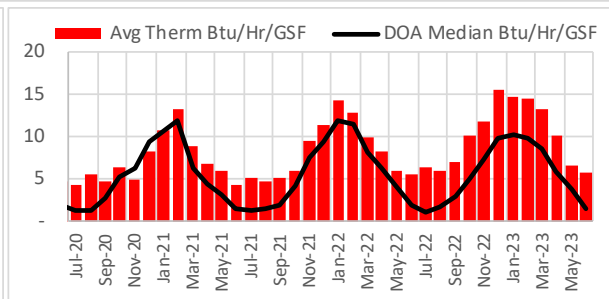
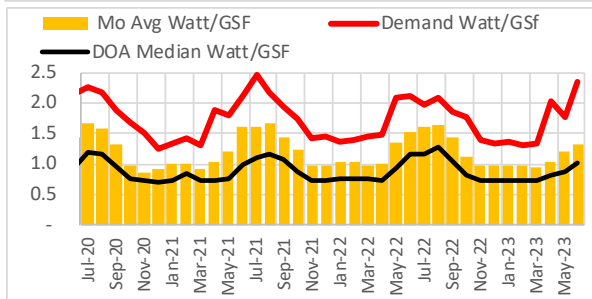
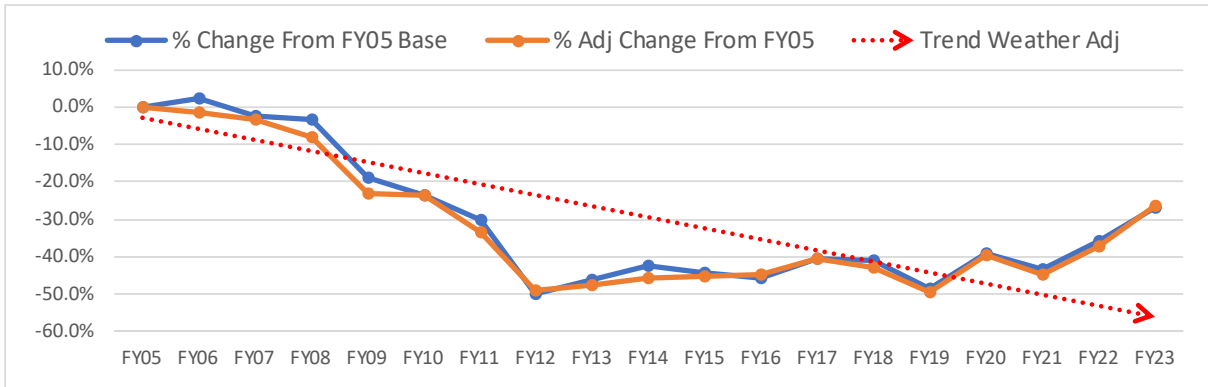
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOA-Capitol Complex Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 10.42		FY23 Therm/GSF = 0.89		FY23 Total Btu/GSF = 124,209		05-23 Thm -20.6%				
FY23 Electric \$/GSF = \$ 1.22		FY23 Thermal \$/GSF = \$ 0.51		FY23 Energy \$/GSF = \$ 1.74		05-23 kwh -37.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	2,013,307	112,981	56,846	169,826	0.0%	48.12	100.0%	100.0%	169,826	0.0%
FY06	2,013,307	116,427	57,203	173,630	2.2%	48.65	94.5%	99.5%	166,991	-1.7%
FY07	2,013,307	109,507	56,231	165,738	-2.4%	47.46	98.6%	99.8%	164,099	-3.4%
FY08	2,013,307	110,539	53,818	164,357	-3.2%	46.19	93.0%	99.3%	156,236	-8.0%
FY09	2,013,307	89,085	48,538	137,622	-19.0%	45.66	92.9%	99.1%	130,883	-22.9%
FY10	2,013,307	82,641	47,512	130,154	-23.4%	47.10	99.5%	100.2%	129,825	-23.6%
FY11	2,013,307	73,324	45,361	118,686	-30.1%	46.81	93.1%	98.9%	113,101	-33.4%
FY12	2,013,307	38,392	46,699	85,091	-49.9%	51.51	105.8%	98.3%	86,535	-49.0%
FY13	2,013,307	45,317	45,833	91,150	-46.3%	47.29	97.1%	99.0%	89,390	-47.4%
FY14	2,013,307	51,410	46,061	97,471	-42.6%	44.58	90.4%	99.2%	92,151	-45.7%
FY15	2,013,307	49,116	45,383	94,499	-44.4%	45.84	96.2%	100.3%	92,783	-45.4%
FY16	2,013,307	46,596	45,379	91,975	-45.8%	49.68	104.3%	99.1%	93,572	-44.9%
FY17	2,013,307	56,361	44,406	100,766	-40.7%	49.72	102.5%	98.2%	101,369	-40.3%
FY18	2,013,307	57,578	42,755	100,333	-40.9%	46.66	94.9%	99.9%	97,306	-42.7%
FY19	2,013,307	46,296	41,505	87,801	-48.3%	45.88	95.3%	100.0%	85,614	-49.6%
FY20	2,013,307	63,783	39,561	103,344	-39.1%	48.07	99.7%	99.3%	102,877	-39.4%
FY21	2,013,307	61,055	35,155	96,210	-43.3%	47.61	97.3%	98.0%	93,897	-44.7%
FY22	2,013,307	71,543	37,080	108,623	-36.0%	48.04	98.5%	97.6%	106,679	-37.2%
FY23	2,013,307	88,659	35,551	124,209	-26.9%	48.64	101.2%	99.4%	125,057	-26.4%

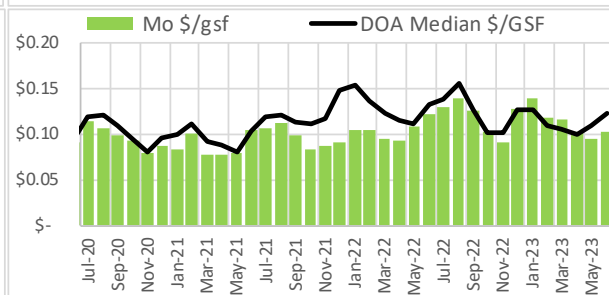
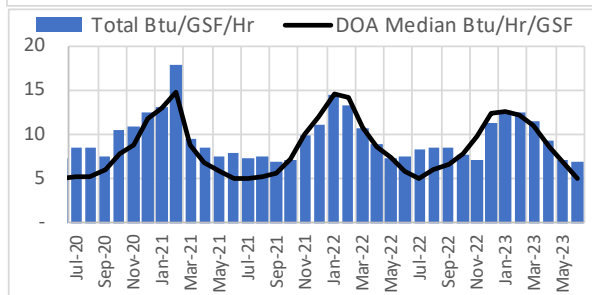
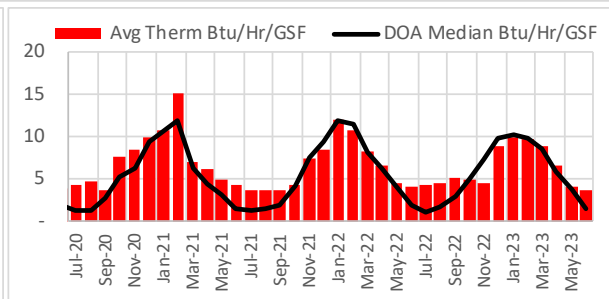
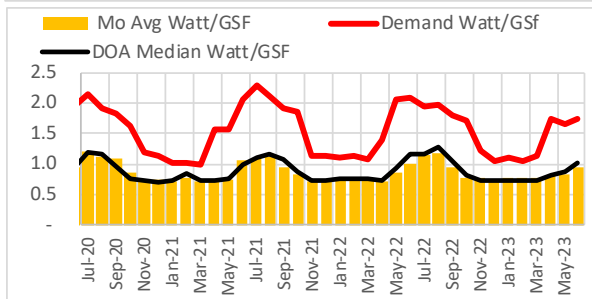
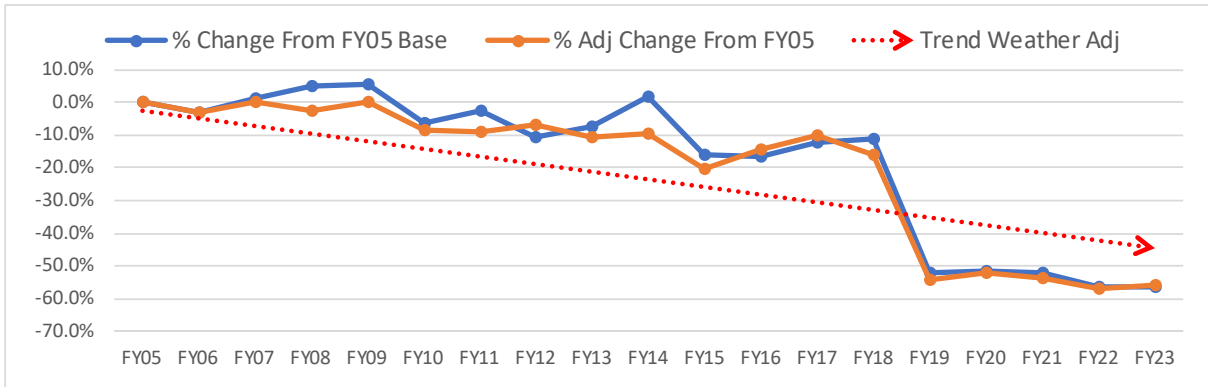
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Hill Farms Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.67		FY23 Therm/GSF = 0.55		FY23 Total Btu/GSF = 81,000		05-23 Thm -53.6%				
FY23 Electric \$/GSF = \$ 0.95		FY23 Thermal \$/GSF = \$ 0.44		FY23 Energy \$/GSF = \$ 1.39		05-23 kwh -60.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	644,904	119,925	65,950	185,875	0.0%	48.12	100.0%	100.0%	185,875	0.0%
FY06	644,904	113,539	66,474	180,014	-3.2%	48.65	101.0%	99.0%	180,482	-2.9%
FY07	644,904	124,466	63,980	188,446	1.4%	47.46	97.9%	99.8%	185,750	-0.1%
FY08	644,904	128,346	66,554	194,900	4.9%	46.19	89.8%	98.3%	180,689	-2.8%
FY09	644,904	130,840	65,380	196,219	5.6%	45.66	92.8%	99.0%	186,076	0.1%
FY10	644,904	114,947	59,120	174,068	-6.4%	47.10	96.7%	100.5%	170,531	-8.3%
FY11	644,904	117,923	62,926	180,849	-2.7%	46.81	90.9%	97.9%	168,825	-9.2%
FY12	644,904	102,704	62,968	165,671	-10.9%	51.51	108.8%	98.3%	173,620	-6.6%
FY13	644,904	112,742	59,692	172,434	-7.2%	47.29	94.8%	99.2%	166,074	-10.7%
FY14	644,904	131,537	57,500	189,038	1.7%	44.58	84.4%	99.8%	168,448	-9.4%
FY15	644,904	103,574	53,048	156,622	-15.7%	45.84	92.1%	100.1%	148,455	-20.1%
FY16	644,904	102,309	52,849	155,158	-16.5%	49.68	104.7%	99.3%	159,648	-14.1%
FY17	644,904	110,360	52,804	163,164	-12.2%	49.72	104.5%	97.9%	167,059	-10.1%
FY18	644,904	120,425	45,121	165,546	-10.9%	46.66	93.3%	98.0%	156,553	-15.8%
FY19	879,419	60,690	28,019	88,709	-52.3%	45.88	93.9%	100.0%	85,025	-54.3%
FY20	879,419	62,017	27,790	89,807	-51.7%	48.07	99.8%	99.4%	89,517	-51.8%
FY21	879,419	63,010	26,270	89,280	-52.0%	47.61	96.2%	98.7%	86,546	-53.4%
FY22	879,419	55,913	25,636	81,549	-56.1%	48.04	97.8%	97.9%	79,767	-57.1%
FY23	879,419	54,810	26,190	81,000	-56.4%	48.64	101.5%	99.6%	81,743	-56.0%

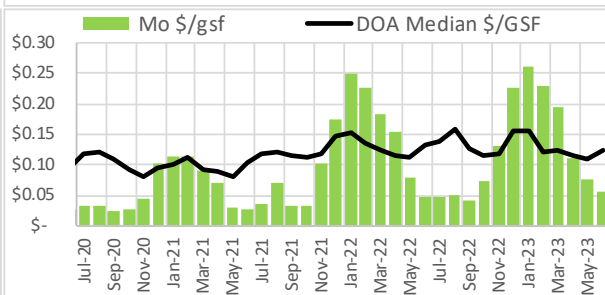
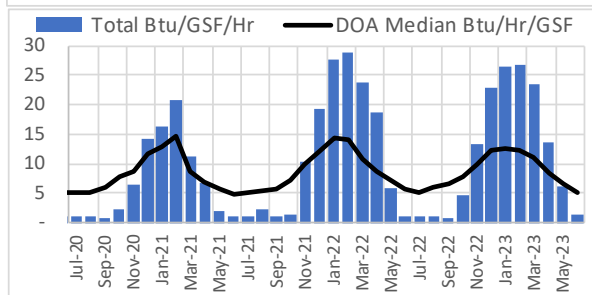
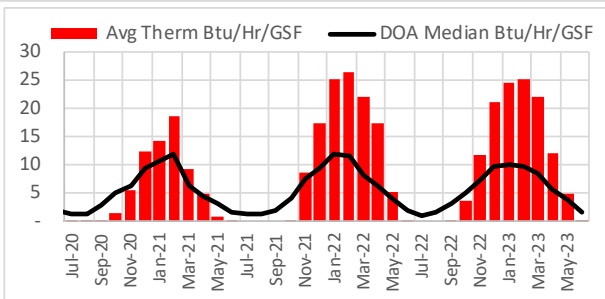
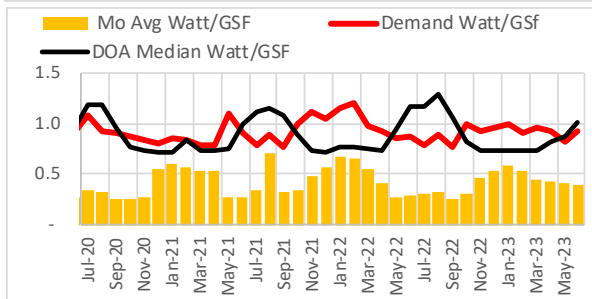
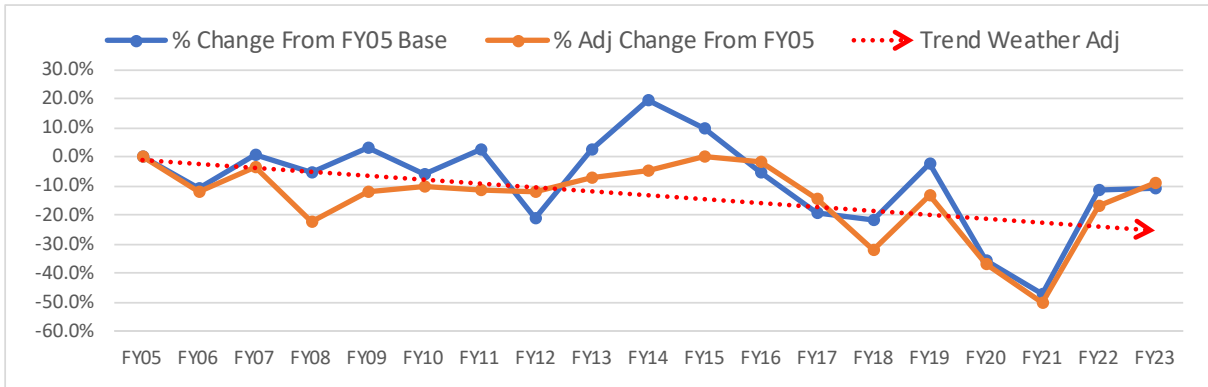
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Air Services Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 3.64		FY23 Therm/GSF = 0.91		FY23 Total Btu/GSF = 103,038		05-23 Thm -3.9%				
FY23 Electric \$/GSF = \$ 0.65		FY23 Thermal \$/GSF = \$ 0.85		FY23 Energy \$/GSF = \$ 1.49		05-23 kwh -33.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	17,898	96,324	18,938	115,262	0.0%	48.12	100.0%	100.0%	115,262	0.0%
FY06	17,898	84,250	18,673	102,922	-10.7%	48.65	98.2%	100.1%	101,435	-12.0%
FY07	17,898	98,195	18,172	116,368	1.0%	47.46	94.7%	99.5%	111,068	-3.6%
FY08	17,898	90,479	18,641	109,121	-5.3%	46.19	78.8%	98.7%	89,689	-22.2%
FY09	17,898	101,235	17,950	119,184	3.4%	45.66	82.9%	98.7%	101,651	-11.8%
FY10	17,898	90,703	17,575	108,277	-6.1%	47.10	95.0%	99.6%	103,663	-10.1%
FY11	17,898	99,598	18,691	118,289	2.6%	46.81	83.9%	98.6%	102,024	-11.5%
FY12	17,898	73,394	17,939	91,332	-20.8%	51.51	113.3%	101.4%	101,372	-12.1%
FY13	17,898	99,302	18,995	118,297	2.6%	47.29	88.8%	99.1%	107,020	-7.2%
FY14	17,898	119,835	17,712	137,547	19.3%	44.58	77.2%	99.4%	110,086	-4.5%
FY15	17,898	110,975	15,412	126,387	9.7%	45.84	90.4%	98.9%	115,562	0.3%
FY16	17,898	93,582	15,871	109,453	-5.0%	49.68	104.0%	100.6%	113,287	-1.7%
FY17	17,898	77,491	15,881	93,372	-19.0%	49.72	107.1%	100.2%	98,912	-14.2%
FY18	17,898	74,451	15,959	90,410	-21.6%	46.66	84.0%	98.8%	78,335	-32.0%
FY19	17,898	98,276	14,596	112,872	-2.1%	45.88	87.6%	97.7%	100,316	-13.0%
FY20	17,898	64,133	10,348	74,481	-35.4%	48.07	98.1%	99.6%	73,195	-36.5%
FY21	17,898	48,952	11,897	60,850	-47.2%	47.61	93.2%	98.8%	57,381	-50.2%
FY22	17,898	88,439	14,068	102,507	-11.1%	48.04	93.0%	96.4%	95,808	-16.9%
FY23	17,898	90,615	12,423	103,038	-10.6%	48.64	102.2%	100.9%	105,105	-8.8%

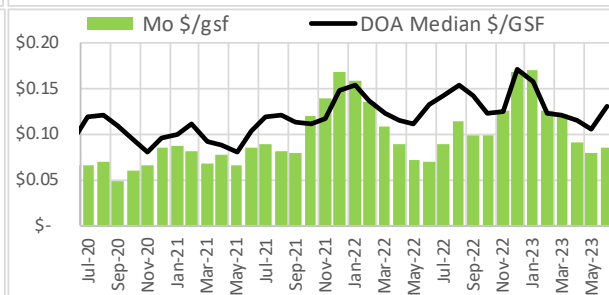
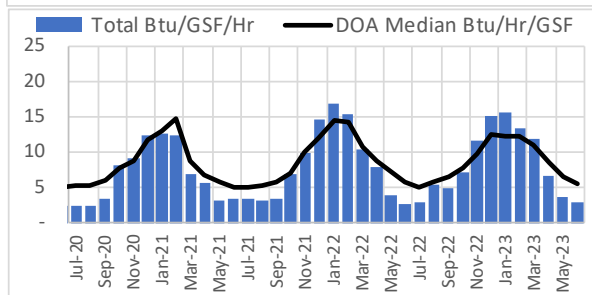
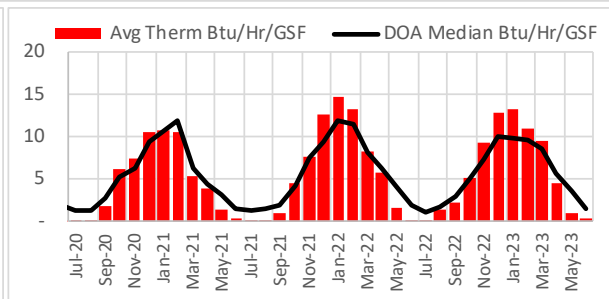
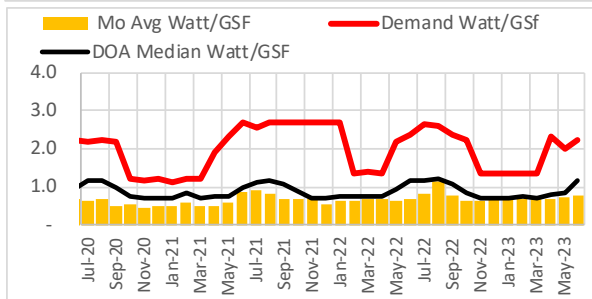
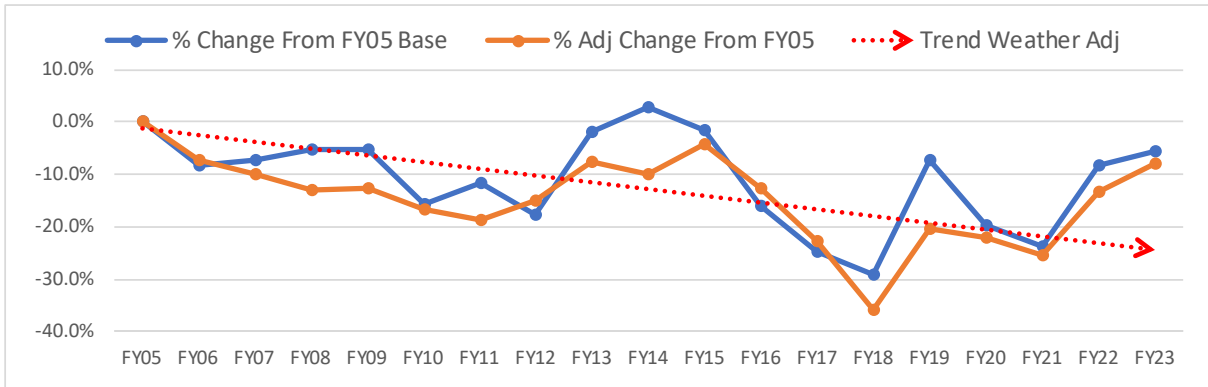
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Eau Claire SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 6.54		FY23 Therm/GSF = 0.51		FY23 Total Btu/GSF = 73,524		05-23 Thm 32.2%				
FY23 Electric \$/GSF = \$ 0.86		FY23 Thermal \$/GSF = \$ 0.51		FY23 Energy \$/GSF = \$ 1.37		05-23 kwh -45.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	56,206	37,587	40,349	77,936	0.0%	45.85	100.0%	100.0%	77,936	0.0%
FY06	56,206	32,196	39,397	71,593	-8.1%	47.80	104.0%	98.7%	72,401	-7.1%
FY07	56,206	34,060	38,328	72,388	-7.1%	46.32	95.2%	98.4%	70,127	-10.0%
FY08	56,206	37,252	36,735	73,987	-5.1%	43.27	84.9%	98.6%	67,842	-13.0%
FY09	56,206	37,854	35,948	73,802	-5.3%	42.97	85.3%	99.6%	68,099	-12.6%
FY10	56,206	32,479	33,179	65,658	-15.8%	45.29	97.9%	100.1%	65,014	-16.6%
FY11	56,206	37,056	31,790	68,846	-11.7%	43.68	86.0%	98.9%	63,287	-18.8%
FY12	56,206	31,945	32,305	64,250	-17.6%	49.02	106.5%	99.4%	66,132	-15.1%
FY13	56,206	45,261	31,187	76,448	-1.9%	43.85	90.9%	99.2%	72,073	-7.5%
FY14	56,206	49,631	30,410	80,041	2.7%	41.37	81.3%	98.0%	70,169	-10.0%
FY15	56,206	49,416	27,443	76,858	-1.4%	43.42	95.7%	99.8%	74,678	-4.2%
FY16	56,206	39,969	25,508	65,476	-16.0%	47.61	106.0%	100.4%	67,972	-12.8%
FY17	56,206	37,120	21,455	58,575	-24.8%	47.08	104.4%	99.5%	60,119	-22.9%
FY18	56,206	33,704	21,513	55,218	-29.2%	42.94	85.3%	99.4%	50,138	-35.7%
FY19	56,206	49,565	22,805	72,370	-7.1%	42.23	79.1%	99.9%	61,977	-20.5%
FY20	56,206	43,247	19,261	62,508	-19.8%	45.39	96.1%	99.5%	60,709	-22.1%
FY21	56,206	42,297	17,166	59,463	-23.7%	47.24	97.6%	97.8%	58,060	-25.5%
FY22	56,206	50,513	20,915	71,427	-8.4%	44.82	92.7%	98.9%	67,514	-13.4%
FY23	56,206	51,199	22,325	73,524	-5.7%	45.80	97.0%	98.9%	71,762	-7.9%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*

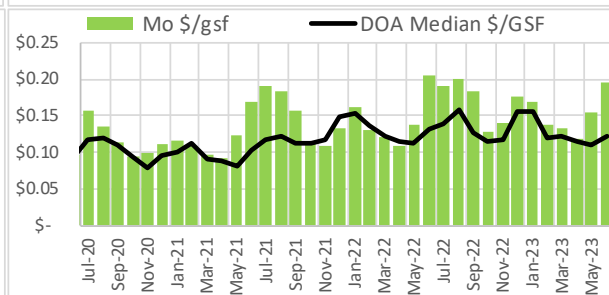
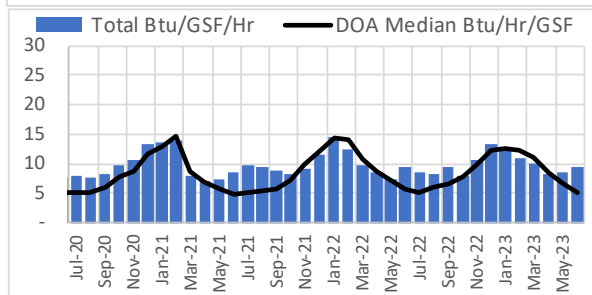
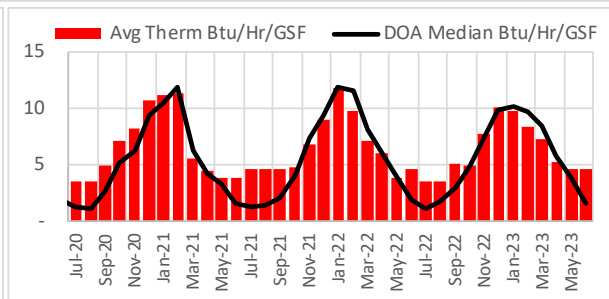
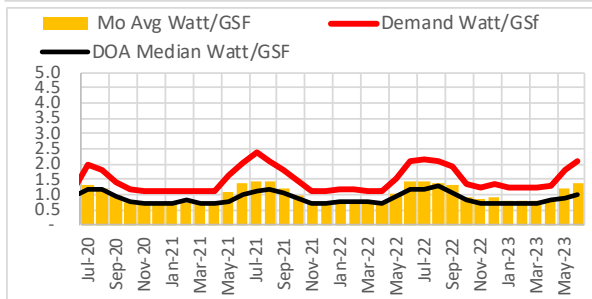
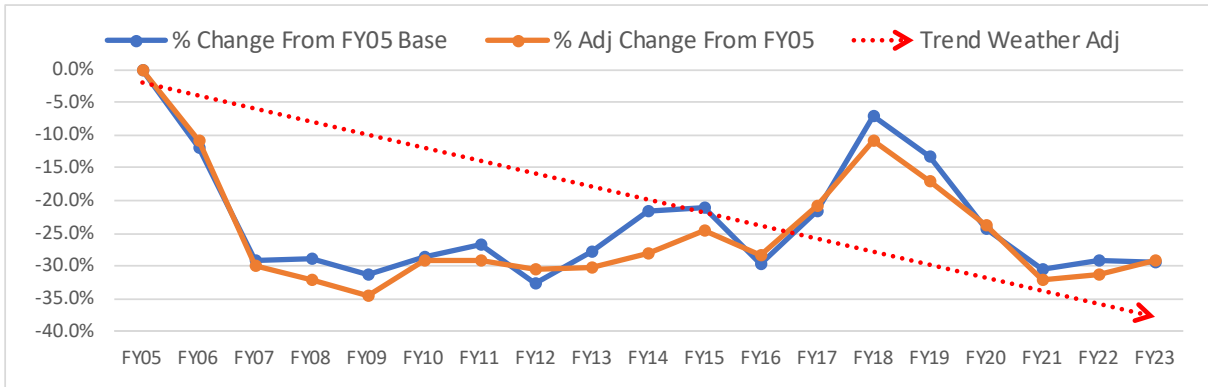




### DOA-Executive Residence Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.23		FY23 Therm/GSF = 0.55		FY23 Total Btu/GSF = 86,095		05-23 Thm -37.9%				
FY23 Electric \$/GSF = \$ 1.44		FY23 Thermal \$/GSF = \$ 0.49		FY23 Energy \$/GSF = \$ 1.93		05-23 kwh -5.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	23,455	89,090	33,078	122,168	0.0%	48.12	100.0%	100.0%	122,168	0.0%
FY06	23,455	74,824	32,752	107,576	-11.9%	48.65	102.3%	99.1%	108,956	-10.8%
FY07	23,455	55,242	31,175	86,417	-29.3%	47.46	98.8%	99.8%	85,700	-29.9%
FY08	23,455	56,001	30,866	86,867	-28.9%	46.19	93.8%	98.7%	82,967	-32.1%
FY09	23,455	54,509	29,463	83,972	-31.3%	45.66	93.2%	99.2%	80,001	-34.5%
FY10	23,455	56,321	30,779	87,099	-28.7%	47.10	98.7%	100.8%	86,635	-29.1%
FY11	23,455	57,779	31,877	89,656	-26.6%	46.81	95.0%	99.3%	86,548	-29.2%
FY12	23,455	49,196	33,081	82,277	-32.7%	51.51	106.3%	98.1%	84,779	-30.6%
FY13	23,455	52,147	36,166	88,313	-27.7%	47.29	95.3%	98.3%	85,255	-30.2%
FY14	23,455	58,460	37,178	95,637	-21.7%	44.58	89.0%	96.3%	87,828	-28.1%
FY15	23,455	60,392	35,975	96,367	-21.1%	45.84	93.2%	100.0%	92,239	-24.5%
FY16	23,455	50,278	35,617	85,895	-29.7%	49.68	104.4%	98.8%	87,701	-28.2%
FY17	23,455	58,521	37,258	95,780	-21.6%	49.72	102.7%	98.3%	96,719	-20.8%
FY18	23,455	76,796	36,593	113,389	-7.2%	46.66	94.7%	98.9%	108,936	-10.8%
FY19	23,455	72,267	33,781	106,048	-13.2%	45.88	93.3%	100.2%	101,228	-17.1%
FY20	23,455	63,201	29,340	92,542	-24.3%	48.07	100.9%	99.5%	92,992	-23.9%
FY21	23,455	56,844	27,947	84,791	-30.6%	47.61	97.7%	98.1%	82,949	-32.1%
FY22	23,455	56,472	29,998	86,470	-29.2%	48.04	97.0%	96.9%	83,842	-31.4%
FY23	23,455	54,588	31,507	86,095	-29.5%	48.64	101.4%	99.5%	86,670	-29.1%

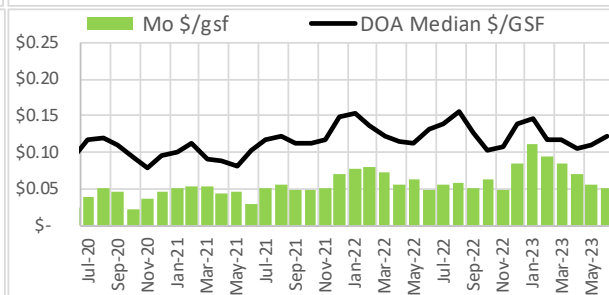
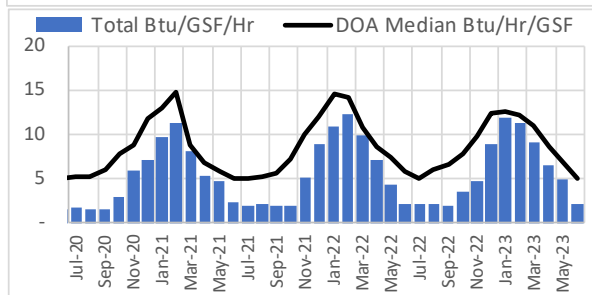
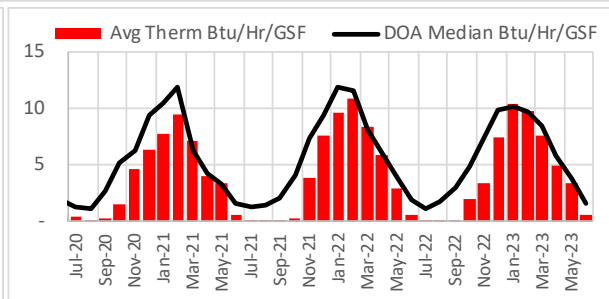
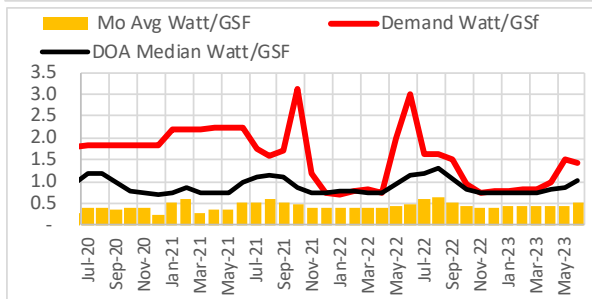
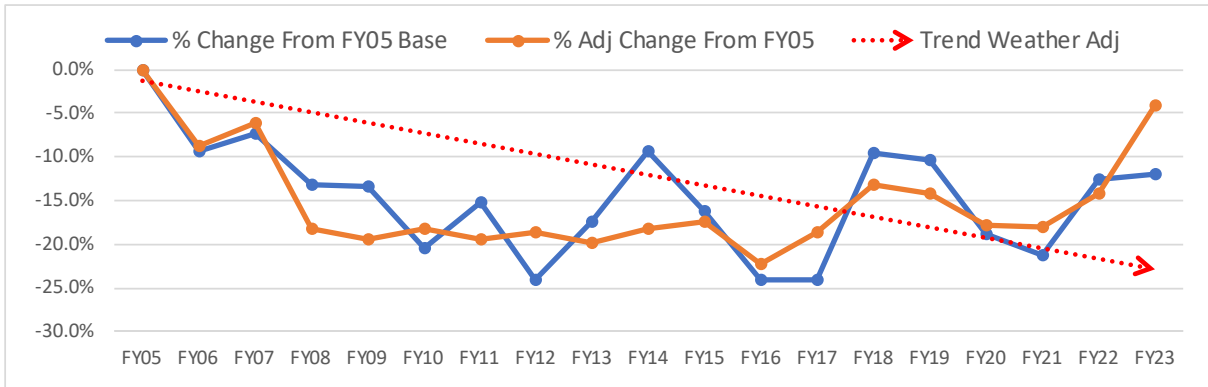
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Green Bay SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.20		FY23 Therm/GSF = 0.36		FY23 Total Btu/GSF = 50,278		05-23 Thm 61.4%				
FY23 Electric \$/GSF = \$ 0.51		FY23 Thermal \$/GSF = \$ 0.32		FY23 Energy \$/GSF = \$ 0.84		05-23 kwh -55.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	69,206	25,116	31,967	57,083	0.0%	45.92	100.0%	100.0%	57,083	0.0%
FY06	69,206	17,639	34,117	51,756	-9.3%	47.27	103.1%	99.5%	52,127	-8.7%
FY07	69,206	22,474	30,409	52,883	-7.4%	46.64	103.1%	100.1%	53,605	-6.1%
FY08	69,206	19,469	30,073	49,542	-13.2%	45.02	88.0%	98.4%	46,732	-18.1%
FY09	69,206	22,037	27,430	49,467	-13.3%	43.47	86.1%	98.5%	45,999	-19.4%
FY10	69,206	18,068	27,351	45,419	-20.4%	45.99	105.3%	100.9%	46,632	-18.3%
FY11	69,206	20,849	27,519	48,368	-15.3%	44.59	90.6%	98.4%	45,969	-19.5%
FY12	69,206	16,866	26,453	43,320	-24.1%	49.86	115.9%	101.9%	46,500	-18.5%
FY13	69,206	20,019	27,095	47,114	-17.5%	45.29	93.8%	99.5%	45,731	-19.9%
FY14	69,206	25,164	26,603	51,767	-9.3%	41.95	82.2%	97.7%	46,673	-18.2%
FY15	69,206	22,995	24,819	47,814	-16.2%	43.98	97.4%	99.8%	47,161	-17.4%
FY16	69,206	19,149	24,227	43,375	-24.0%	48.11	104.2%	100.8%	44,382	-22.2%
FY17	69,206	18,101	25,244	43,345	-24.1%	48.65	117.7%	99.8%	46,499	-18.5%
FY18	69,206	30,079	21,551	51,631	-9.6%	45.77	93.4%	99.5%	49,530	-13.2%
FY19	69,206	29,576	21,541	51,118	-10.4%	44.89	93.0%	100.0%	49,039	-14.1%
FY20	69,206	31,489	14,856	46,345	-18.8%	46.41	101.8%	99.8%	46,874	-17.9%
FY21	69,206	33,062	11,850	44,912	-21.3%	47.28	105.9%	99.3%	46,787	-18.0%
FY22	69,206	36,388	13,561	49,948	-12.5%	46.75	97.9%	98.5%	48,973	-14.2%
FY23	69,206	35,959	14,319	50,278	-11.9%	51.09	112.8%	99.5%	54,787	-4.0%

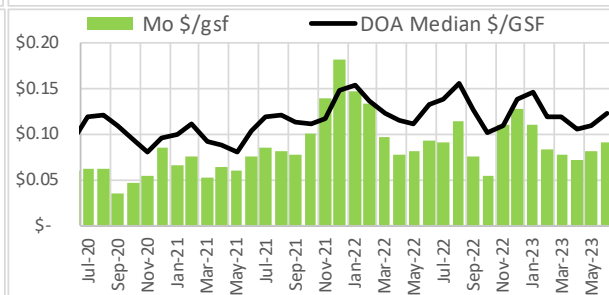
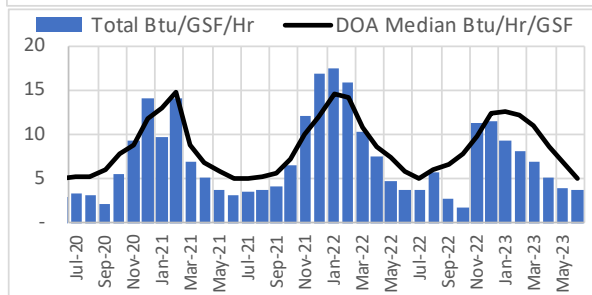
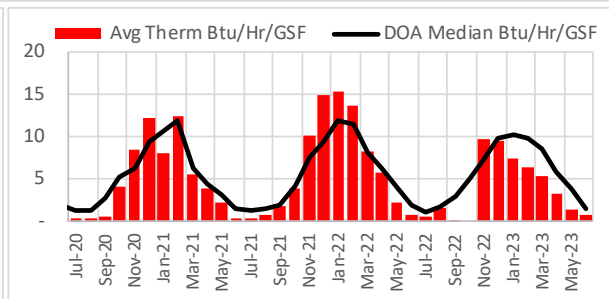
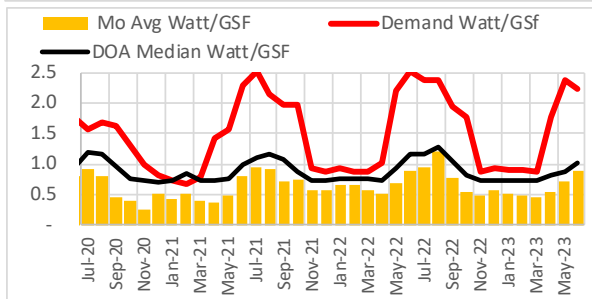
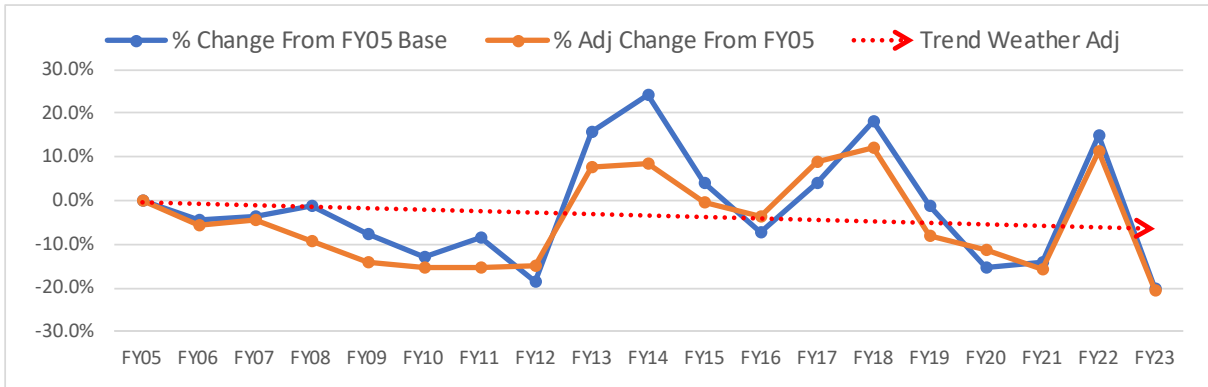
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-La Crosse SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.93		FY23 Therm/GSF = 0.34		FY23 Total Btu/GSF = 53,771		05-23 Thm -3.0%				
FY23 Electric \$/GSF = \$ 0.75		FY23 Thermal \$/GSF = \$ 0.34		FY23 Energy \$/GSF = \$ 1.09		05-23 kwh -39.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	45,965	34,964	32,505	67,468	0.0%	48.43	100.0%	100.0%	67,468	0.0%
FY06	45,965	28,585	35,819	64,404	-4.5%	49.77	99.2%	98.9%	63,782	-5.5%
FY07	45,965	29,512	35,552	65,064	-3.6%	48.69	99.1%	99.2%	64,500	-4.4%
FY08	45,965	30,993	35,730	66,723	-1.1%	46.15	85.4%	97.3%	61,234	-9.2%
FY09	45,965	29,773	32,487	62,259	-7.7%	45.85	86.8%	99.0%	58,002	-14.0%
FY10	45,965	27,401	31,435	58,837	-12.8%	47.43	94.1%	99.8%	57,139	-15.3%
FY11	45,965	30,778	30,972	61,750	-8.5%	46.70	86.9%	97.9%	57,071	-15.4%
FY12	45,965	23,611	31,222	54,833	-18.7%	51.77	111.4%	99.7%	57,434	-14.9%
FY13	45,965	45,670	32,309	77,978	15.6%	46.71	89.0%	99.1%	72,658	7.7%
FY14	45,965	51,560	32,126	83,685	24.0%	44.97	81.6%	96.5%	73,094	8.3%
FY15	45,965	40,100	30,047	70,147	4.0%	47.28	93.5%	98.5%	67,116	-0.5%
FY16	45,965	35,412	27,296	62,708	-7.1%	51.01	107.8%	98.1%	64,962	-3.7%
FY17	45,965	42,211	28,041	70,252	4.1%	51.61	109.5%	97.1%	73,430	8.8%
FY18	45,965	51,148	28,475	79,623	18.0%	48.62	94.7%	95.2%	75,583	12.0%
FY19	45,965	42,732	23,829	66,561	-1.3%	47.03	90.8%	97.4%	62,016	-8.1%
FY20	45,965	36,370	20,750	57,120	-15.3%	52.40	110.9%	94.5%	59,916	-11.2%
FY21	45,965	42,247	15,809	58,056	-14.0%	47.24	99.1%	95.4%	56,946	-15.6%
FY22	45,965	56,429	21,009	77,437	14.8%	48.90	97.1%	96.3%	74,987	11.1%
FY23	45,965	33,522	20,249	53,771	-20.3%	49.34	101.2%	97.0%	53,565	-20.6%

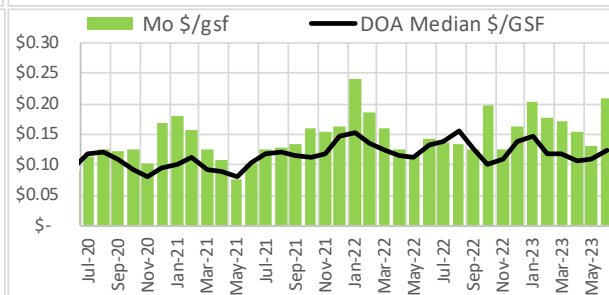
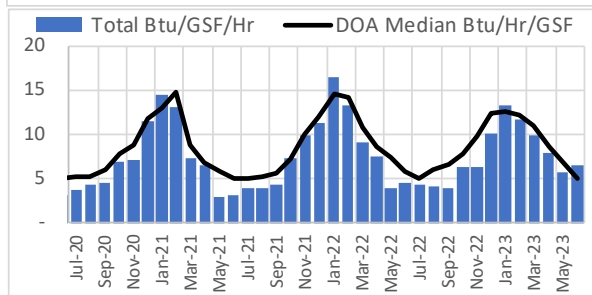
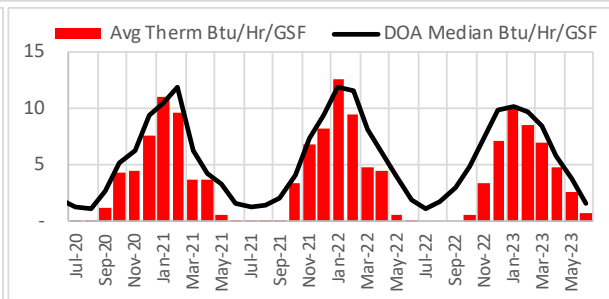
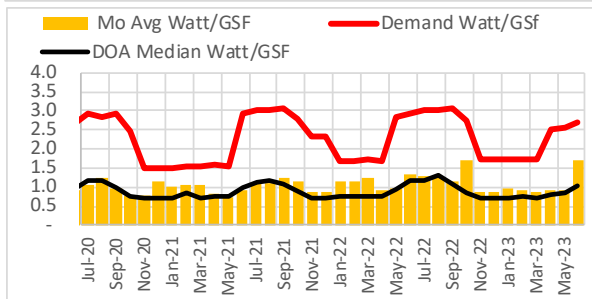
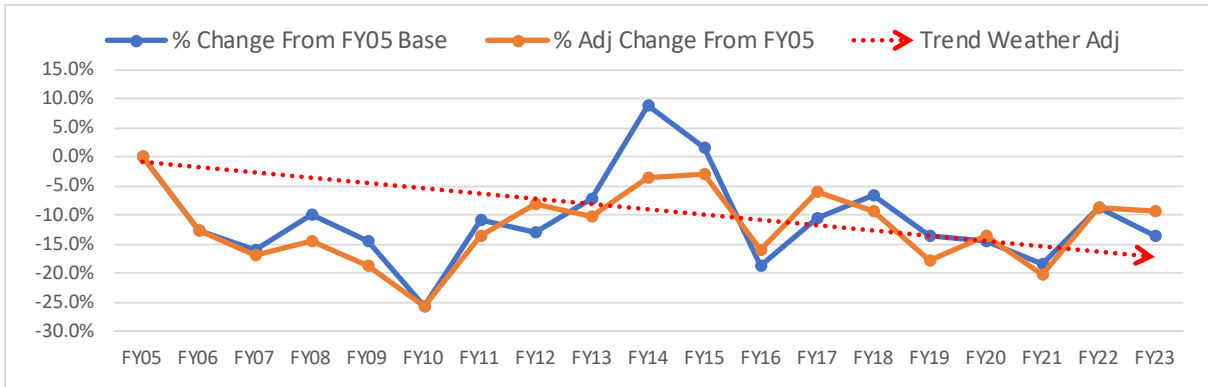
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOA-Milwaukee SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.74		FY23 Therm/GSF = 0.33		FY23 Total Btu/GSF = 65,773		05-23 Thm -2.3%				
FY23 Electric \$/GSF = \$ 1.38		FY23 Thermal \$/GSF = \$ 0.55		FY23 Energy \$/GSF = \$ 1.93		05-23 kwh -16.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	201,200	37,712	38,403	76,115	0.0%	48.47	100.0%	100.0%	76,115	0.0%
FY06	201,200	30,068	36,524	66,591	-12.5%	50.11	101.4%	98.3%	66,396	-12.8%
FY07	201,200	26,487	37,372	63,859	-16.1%	48.88	99.5%	98.9%	63,313	-16.8%
FY08	201,200	33,774	34,693	68,467	-10.0%	47.87	91.7%	98.2%	65,058	-14.5%
FY09	201,200	29,957	35,221	65,178	-14.4%	47.26	90.4%	98.8%	61,868	-18.7%
FY10	201,200	24,808	31,817	56,624	-25.6%	49.10	99.8%	99.9%	56,560	-25.7%
FY11	201,200	32,655	35,188	67,844	-10.9%	48.17	94.5%	99.5%	65,851	-13.5%
FY12	201,200	29,479	36,783	66,263	-12.9%	52.24	113.8%	99.1%	69,995	-8.0%
FY13	201,200	34,379	36,228	70,607	-7.2%	48.26	94.3%	99.1%	68,306	-10.3%
FY14	201,200	46,853	36,023	82,875	8.9%	45.20	82.0%	97.4%	73,499	-3.4%
FY15	201,200	43,010	34,206	77,216	1.4%	46.08	91.8%	100.4%	73,804	-3.0%
FY16	201,200	26,727	35,157	61,884	-18.7%	50.51	108.3%	99.4%	63,867	-16.1%
FY17	201,200	30,714	37,405	68,120	-10.5%	51.99	114.9%	97.2%	71,638	-5.9%
FY18	201,200	34,985	36,106	71,091	-6.6%	48.73	96.5%	97.8%	69,053	-9.3%
FY19	201,200	32,393	33,477	65,870	-13.5%	47.88	91.9%	98.2%	62,654	-17.7%
FY20	201,200	32,747	32,416	65,162	-14.4%	49.85	102.6%	99.6%	65,879	-13.4%
FY21	201,200	33,565	28,663	62,228	-18.2%	47.24	96.9%	98.8%	60,855	-20.0%
FY22	201,200	36,786	32,693	69,479	-8.7%	50.90	101.8%	98.2%	69,554	-8.6%
FY23	201,200	32,520	33,253	65,773	-13.6%	51.09	113.3%	97.0%	69,124	-9.2%

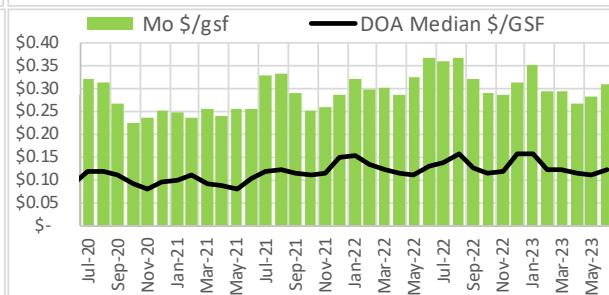
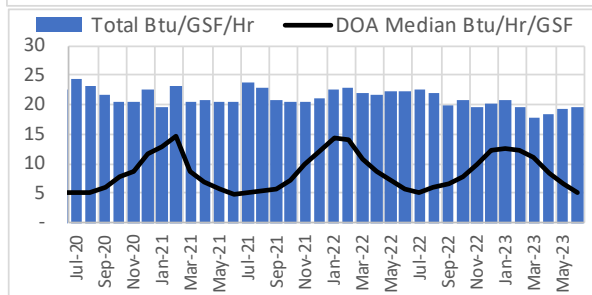
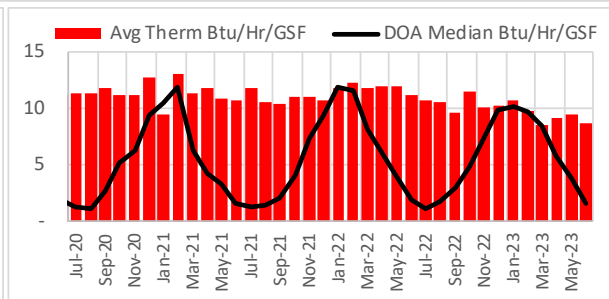
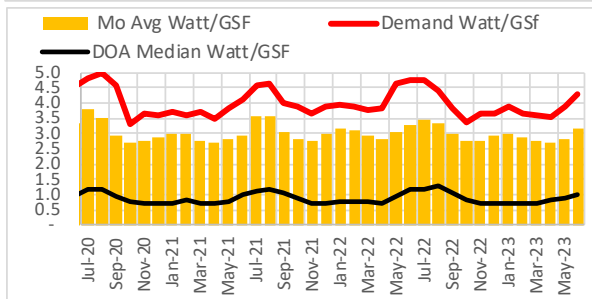
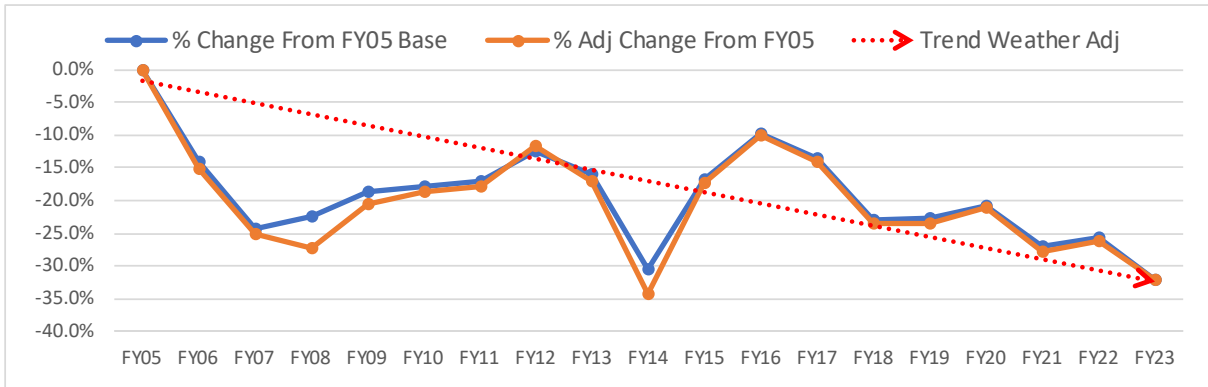
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Public Broadcasting Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 26.00		FY23 Therm/GSF = 0.87		FY23 Total Btu/GSF = 175,641		05-23 Thm -32.4%				
FY23 Electric \$/GSF = \$ 3.00		FY23 Thermal \$/GSF = \$ 0.73		FY23 Energy \$/GSF = \$ 3.73		05-23 kwh -31.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	48,246	128,605	129,746	258,351	0.0%	48.12	100.0%	100.0%	258,351	0.0%
FY06	48,246	98,018	123,853	221,871	-14.1%	48.65	99.0%	98.7%	219,243	-15.1%
FY07	48,246	95,086	100,630	195,716	-24.2%	47.46	98.1%	99.3%	193,206	-25.2%
FY08	48,246	97,915	102,515	200,430	-22.4%	46.19	91.1%	96.3%	187,897	-27.3%
FY09	48,246	105,107	105,091	210,198	-18.6%	45.66	97.1%	98.5%	205,534	-20.4%
FY10	48,246	107,512	104,616	212,128	-17.9%	47.10	97.9%	100.0%	209,885	-18.8%
FY11	48,246	111,323	102,905	214,228	-17.1%	46.81	100.6%	97.7%	212,488	-17.8%
FY12	48,246	122,323	103,573	225,896	-12.6%	51.51	102.3%	99.6%	228,267	-11.6%
FY13	48,246	112,353	104,457	216,810	-16.1%	47.29	100.0%	97.7%	214,409	-17.0%
FY14	48,246	84,388	95,518	179,907	-30.4%	44.58	95.0%	94.2%	170,140	-34.1%
FY15	48,246	111,889	103,084	214,973	-16.8%	45.84	99.3%	99.5%	213,681	-17.3%
FY16	48,246	122,171	110,776	232,947	-9.8%	49.68	100.1%	99.5%	232,509	-10.0%
FY17	48,246	114,796	108,685	223,480	-13.5%	49.72	99.4%	99.4%	222,143	-14.0%
FY18	48,246	102,700	96,114	198,814	-23.0%	46.66	99.2%	99.4%	197,491	-23.6%
FY19	48,246	101,667	98,377	200,044	-22.6%	45.88	99.1%	98.6%	197,800	-23.4%
FY20	48,246	107,603	96,966	204,570	-20.8%	48.07	100.0%	99.4%	203,957	-21.1%
FY21	48,246	99,492	88,826	188,318	-27.1%	47.61	99.7%	98.6%	186,795	-27.7%
FY22	48,246	99,732	92,348	192,080	-25.7%	48.04	99.9%	98.3%	190,455	-26.3%
FY23	48,246	86,886	88,755	175,641	-32.0%	48.64	100.0%	100.0%	175,632	-32.0%

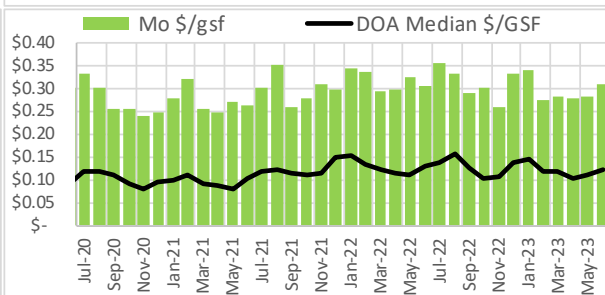
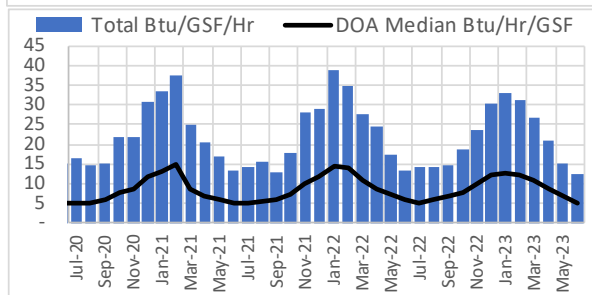
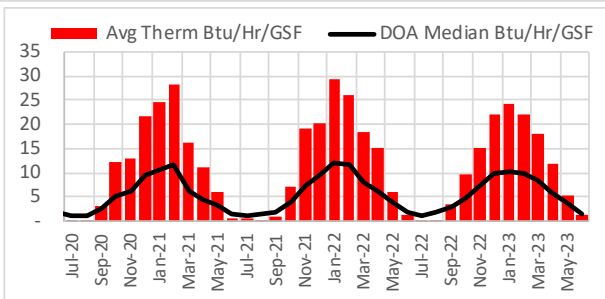
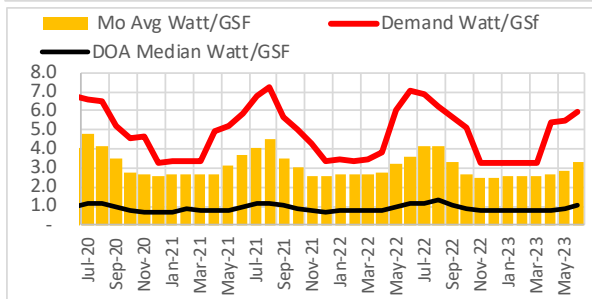
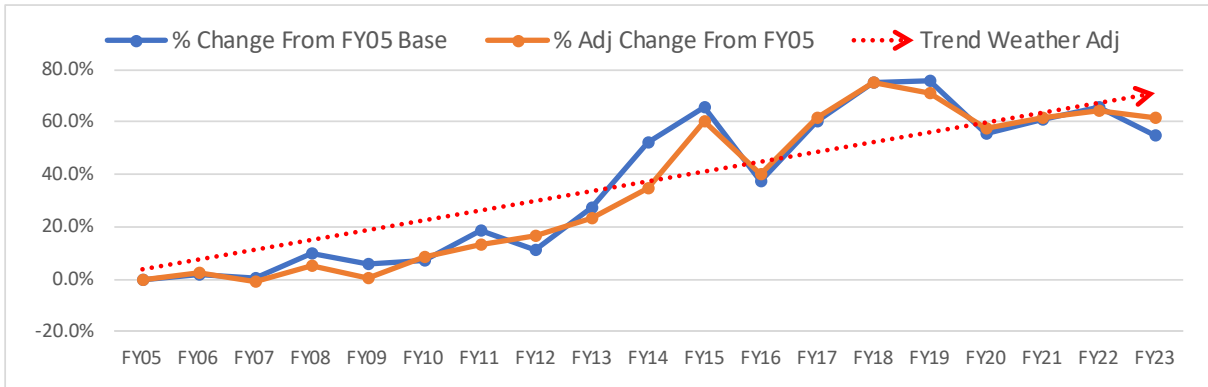
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-SE Crime Lab Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 26.05		FY23 Therm/GSF = 0.97		FY23 Total Btu/GSF = 186,323		05-23 Thm 108.5%				
FY23 Electric \$/GSF = \$ 2.99		FY23 Thermal \$/GSF = \$ 0.64		FY23 Energy \$/GSF = \$ 3.63		05-23 kwh 27.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	43,935	51,334	69,155	120,490	0.0%	48.47	100.0%	100.0%	120,490	0.0%
FY06	43,935	52,546	69,997	122,543	1.7%	50.11	105.0%	97.5%	123,393	2.4%
FY07	43,935	54,697	66,429	121,126	0.5%	48.88	98.3%	99.0%	119,566	-0.8%
FY08	43,935	63,698	68,578	132,276	9.8%	47.87	92.5%	98.6%	126,546	5.0%
FY09	43,935	61,753	66,044	127,797	6.1%	47.26	90.0%	99.5%	121,300	0.7%
FY10	43,935	63,506	65,705	129,211	7.2%	49.10	103.1%	99.8%	131,032	8.7%
FY11	43,935	72,182	70,595	142,778	18.5%	48.17	93.1%	98.4%	140,664	13.4%
FY12	43,935	60,698	73,242	133,940	11.2%	52.24	113.4%	97.8%	136,487	16.6%
FY13	43,935	82,143	71,309	153,451	27.4%	48.26	94.7%	99.1%	148,432	23.2%
FY14	43,935	107,693	75,420	183,112	52.0%	45.20	80.5%	100.0%	162,054	34.5%
FY15	43,935	115,140	84,814	199,955	66.0%	46.08	93.4%	101.1%	193,318	60.4%
FY16	43,935	71,882	93,648	165,530	37.4%	50.51	106.0%	98.9%	168,803	40.1%
FY17	43,935	89,647	103,724	193,371	60.5%	51.99	106.1%	95.8%	194,500	61.4%
FY18	43,935	107,181	103,849	211,030	75.1%	48.73	100.5%	99.3%	210,839	75.0%
FY19	43,935	112,746	99,047	211,793	75.8%	47.88	96.3%	98.4%	206,041	71.0%
FY20	43,935	88,980	98,737	187,718	55.8%	49.85	103.7%	99.1%	190,091	57.8%
FY21	43,935	99,354	94,518	193,872	60.9%	50.84	104.8%	96.2%	195,104	61.9%
FY22	43,935	105,114	94,175	199,289	65.4%	50.90	102.9%	95.7%	198,321	64.6%
FY23	43,935	97,398	88,925	186,323	54.6%	51.09	109.9%	98.9%	194,947	61.8%

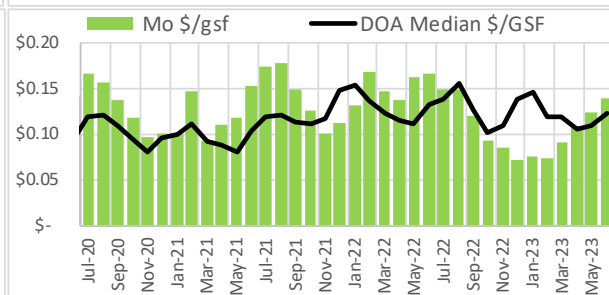
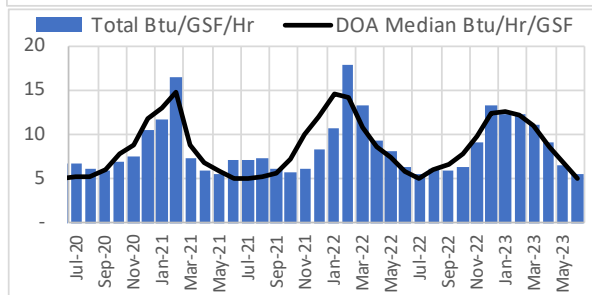
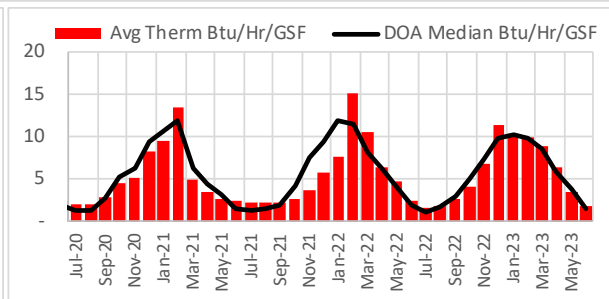
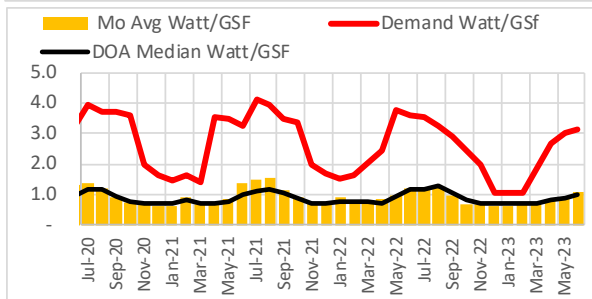
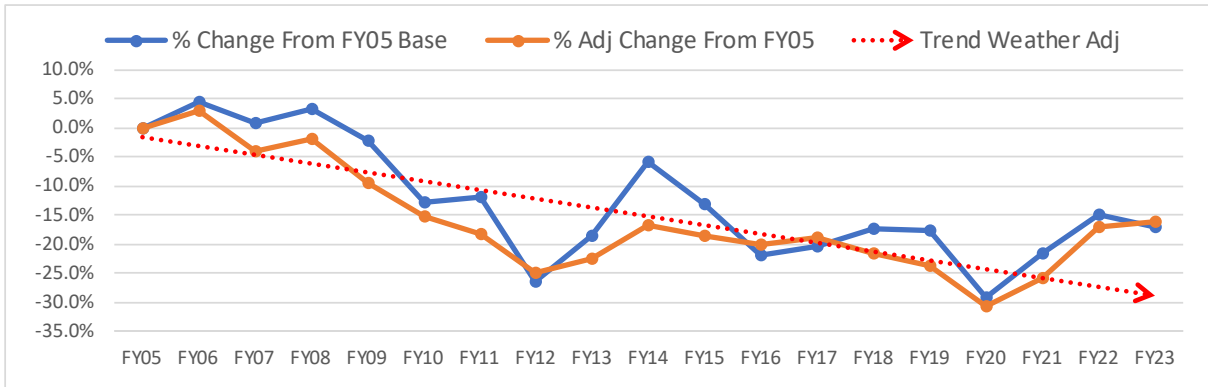
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-State Ag Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.42		FY23 Therm/GSF = 0.50		FY23 Total Btu/GSF = 75,110		05-23 Thm 13.5%				
FY23 Electric \$/GSF = \$ 1.28		FY23 Thermal \$/GSF = \$ -		FY23 Energy \$/GSF = \$ 1.28		05-23 kwh -45.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	118,011	44,767	45,771	90,538	0.0%	48.12	100.0%	100.0%	90,538	0.0%
FY06	118,011	46,996	47,488	94,484	4.4%	48.65	98.7%	98.7%	93,302	3.1%
FY07	118,011	45,919	45,363	91,283	0.8%	47.46	91.1%	99.3%	86,850	-4.1%
FY08	118,011	50,343	43,200	93,542	3.3%	46.19	91.5%	98.9%	88,799	-1.9%
FY09	118,011	48,159	40,397	88,556	-2.2%	45.66	86.4%	99.6%	81,858	-9.6%
FY10	118,011	39,881	39,166	79,047	-12.7%	47.10	93.2%	100.8%	76,633	-15.4%
FY11	118,011	41,563	38,225	79,788	-11.9%	46.81	88.4%	97.8%	74,132	-18.1%
FY12	118,011	31,247	35,444	66,692	-26.3%	51.51	106.8%	97.3%	67,876	-25.0%
FY13	118,011	38,563	35,237	73,799	-18.5%	47.29	92.2%	98.6%	70,326	-22.3%
FY14	118,011	49,736	35,596	85,332	-5.8%	44.58	81.2%	98.2%	75,343	-16.8%
FY15	118,011	44,184	34,587	78,771	-13.0%	45.84	88.6%	100.1%	73,755	-18.5%
FY16	118,011	37,539	33,251	70,790	-21.8%	49.68	105.4%	98.7%	72,371	-20.1%
FY17	118,011	39,363	32,764	72,127	-20.3%	49.72	104.7%	98.2%	73,394	-18.9%
FY18	118,011	42,730	32,211	74,941	-17.2%	46.66	90.6%	100.2%	70,971	-21.6%
FY19	118,011	44,521	30,019	74,540	-17.7%	45.88	88.0%	99.5%	69,079	-23.7%
FY20	118,011	38,414	25,691	64,105	-29.2%	48.07	96.8%	99.3%	62,694	-30.8%
FY21	118,011	44,160	26,862	71,022	-21.6%	47.61	93.4%	96.8%	67,272	-25.7%
FY22	118,011	47,033	30,015	77,047	-14.9%	48.04	98.4%	96.4%	75,208	-16.9%
FY23	118,011	49,803	25,308	75,110	-17.0%	48.64	102.0%	99.2%	75,909	-16.2%

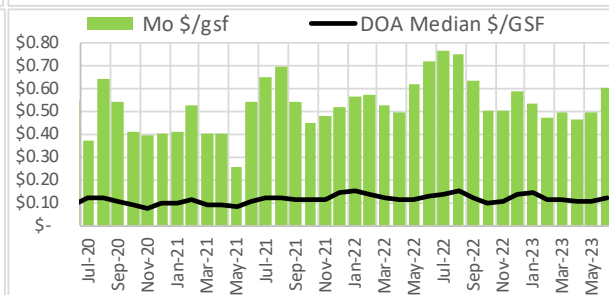
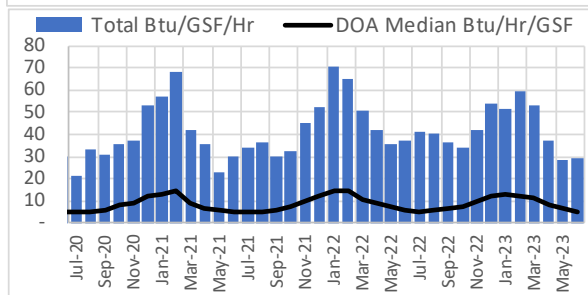
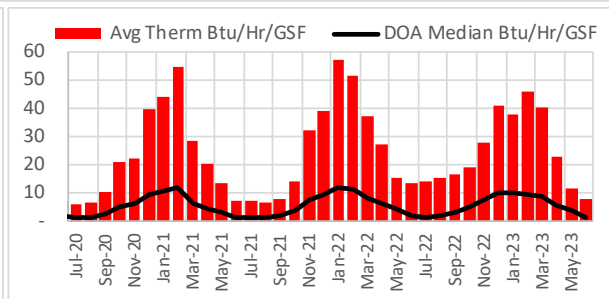
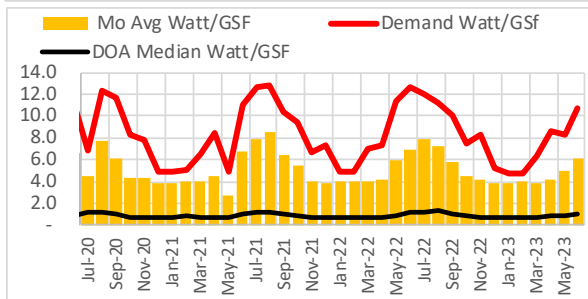
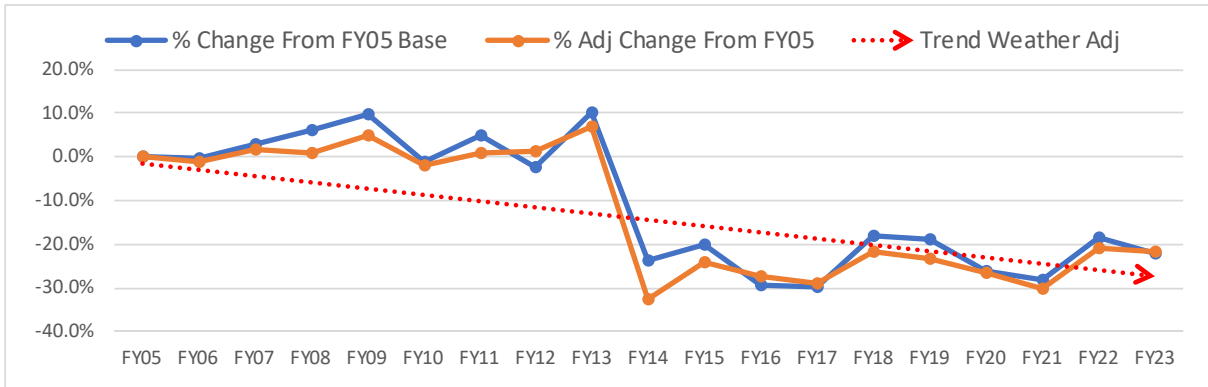
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-State Hygiene Lab Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 44.15		FY23 Therm/GSF = 2.19		FY23 Total Btu/GSF = 369,764		05-23 Thm -25.3%				
FY23 Electric \$/GSF = \$ 5.38		FY23 Thermal \$/GSF = \$ 1.42		FY23 Energy \$/GSF = \$ 6.80		05-23 kwh -15.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	77,505	297,710	176,259	473,969	0.0%	48.12	100.0%	100.0%	473,969	0.0%
FY06	77,505	280,021	192,880	472,900	-0.2%	48.65	99.1%	98.9%	468,170	-1.2%
FY07	77,505	298,923	189,399	488,322	3.0%	47.46	98.3%	99.6%	482,676	1.8%
FY08	77,505	310,741	192,525	503,266	6.2%	46.19	92.3%	99.3%	477,776	0.8%
FY09	77,505	326,824	194,168	520,992	9.9%	45.66	92.6%	100.1%	496,888	4.8%
FY10	77,505	279,681	189,726	469,408	-1.0%	47.10	97.8%	100.8%	464,835	-1.9%
FY11	77,505	300,107	196,508	496,615	4.8%	46.81	94.5%	98.6%	477,438	0.7%
FY12	77,505	293,462	170,051	463,514	-2.2%	51.51	107.4%	96.9%	480,070	1.3%
FY13	77,505	345,524	175,931	521,455	10.0%	47.29	96.0%	100.1%	507,840	7.1%
FY14	160,344	229,182	132,158	361,340	-23.8%	44.58	81.9%	99.5%	319,171	-32.7%
FY15	160,344	239,461	139,247	378,709	-20.1%	45.84	91.9%	100.4%	359,806	-24.1%
FY16	160,344	196,523	139,246	335,769	-29.2%	49.68	105.4%	98.8%	344,609	-27.3%
FY17	160,344	184,987	148,451	333,438	-29.6%	49.72	103.5%	97.4%	336,185	-29.1%
FY18	160,344	237,164	150,858	388,022	-18.1%	46.66	93.1%	99.4%	370,757	-21.8%
FY19	160,344	230,466	154,710	385,177	-18.7%	45.88	90.6%	99.6%	362,990	-23.4%
FY20	160,344	193,614	156,001	349,615	-26.2%	48.07	99.8%	99.3%	348,198	-26.5%
FY21	160,344	198,491	141,324	339,814	-28.3%	47.61	96.3%	99.0%	331,126	-30.1%
FY22	160,344	224,756	162,391	387,147	-18.3%	48.04	96.6%	96.7%	374,202	-21.0%
FY23	160,344	219,087	150,676	369,764	-22.0%	48.64	101.5%	99.3%	372,036	-21.5%

Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

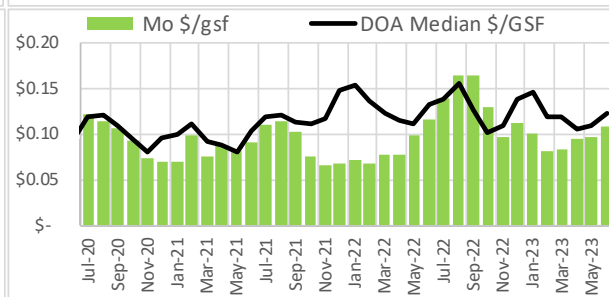
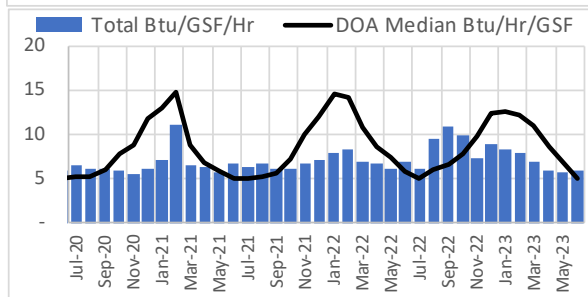
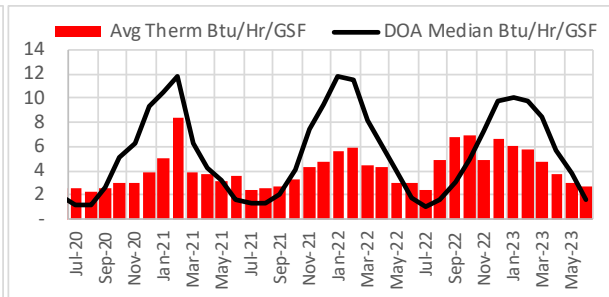
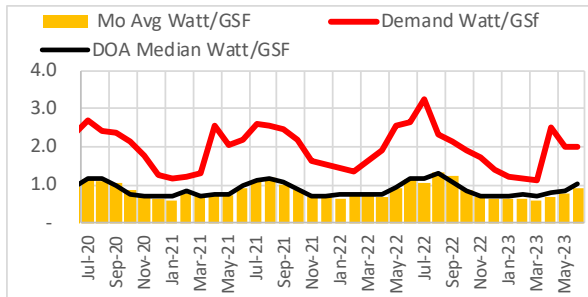
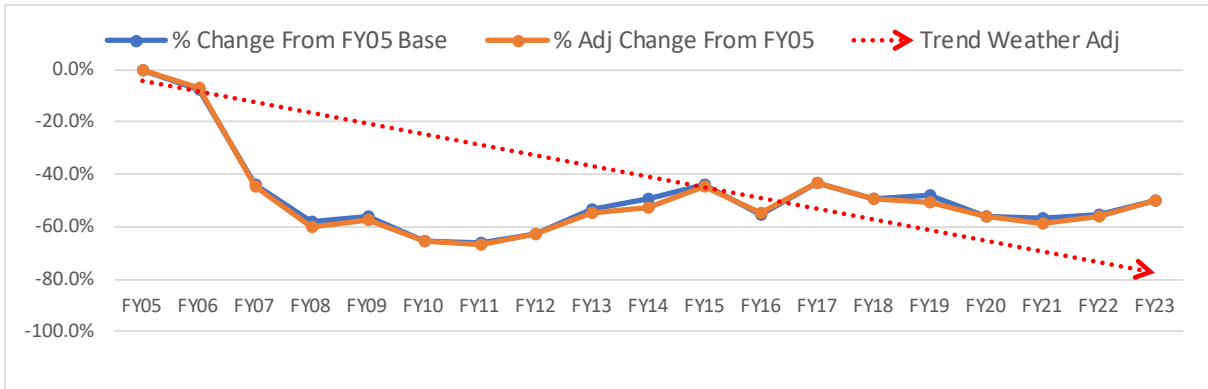




### DOA-State Revenue Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.40		FY23 Therm/GSF = 0.43		FY23 Total Btu/GSF = 67,831		05-23 Thm -41.7%				
FY23 Electric \$/GSF = \$ 1.05		FY23 Thermal \$/GSF = \$ 0.32		FY23 Energy \$/GSF = \$ 1.38		05-23 kwh -59.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	247,224	73,435	61,299	134,734	0.0%	48.12	100.0%	100.0%	134,734	0.0%
FY06	247,224	62,497	62,098	124,595	-7.5%	48.65	102.5%	98.7%	125,382	-6.9%
FY07	247,224	24,015	51,677	75,692	-43.8%	47.46	96.0%	100.0%	74,718	-44.5%
FY08	247,224	11,651	44,492	56,143	-58.3%	46.19	84.4%	99.5%	54,090	-59.9%
FY09	247,224	15,938	43,465	59,402	-55.9%	45.66	87.2%	99.9%	57,306	-57.5%
FY10	247,224	10,088	36,696	46,784	-65.3%	47.10	97.4%	100.6%	46,755	-65.3%
FY11	247,224	12,179	33,817	45,996	-65.9%	46.81	87.8%	101.2%	44,911	-66.7%
FY12	247,224	12,714	37,133	49,847	-63.0%	51.51	108.2%	97.9%	50,119	-62.8%
FY13	247,224	25,960	36,911	62,871	-53.3%	47.29	93.2%	99.8%	61,022	-54.7%
FY14	247,224	31,527	36,903	68,430	-49.2%	44.58	85.8%	100.4%	64,071	-52.4%
FY15	247,224	38,988	36,705	75,694	-43.8%	45.84	96.3%	100.7%	74,521	-44.7%
FY16	247,224	26,334	34,235	60,569	-55.0%	49.68	102.9%	98.8%	60,912	-54.8%
FY17	247,224	39,967	36,190	76,157	-43.5%	49.72	102.8%	98.4%	76,714	-43.1%
FY18	247,224	34,991	33,718	68,708	-49.0%	46.66	97.4%	100.2%	67,885	-49.6%
FY19	247,224	37,980	32,021	70,002	-48.0%	45.88	90.9%	100.2%	66,620	-50.6%
FY20	247,224	30,803	28,574	59,377	-55.9%	48.07	99.9%	99.5%	59,218	-56.0%
FY21	247,224	32,782	25,111	57,893	-57.0%	47.61	94.8%	99.0%	55,934	-58.5%
FY22	247,224	33,934	25,928	59,862	-55.6%	48.04	99.5%	98.0%	59,186	-56.1%
FY23	247,224	42,590	25,241	67,831	-49.7%	48.64	100.5%	99.3%	67,853	-49.6%

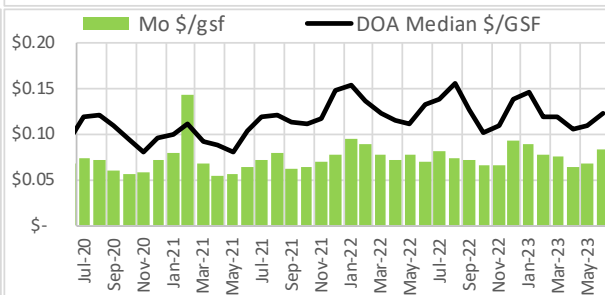
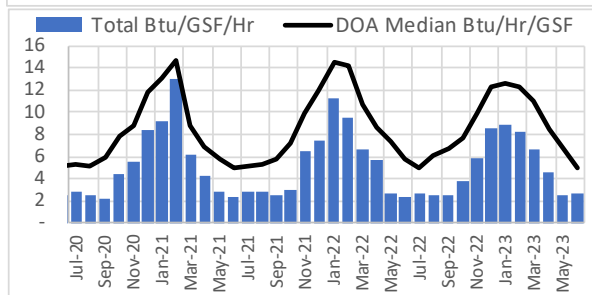
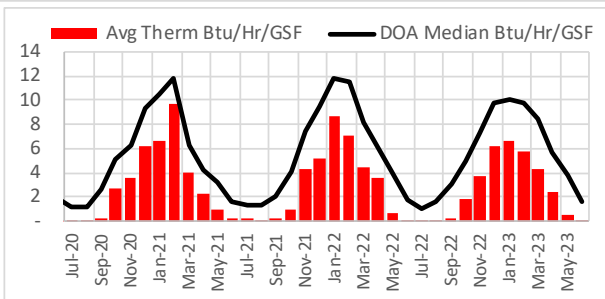
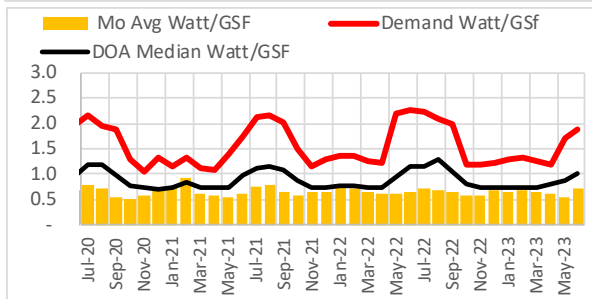
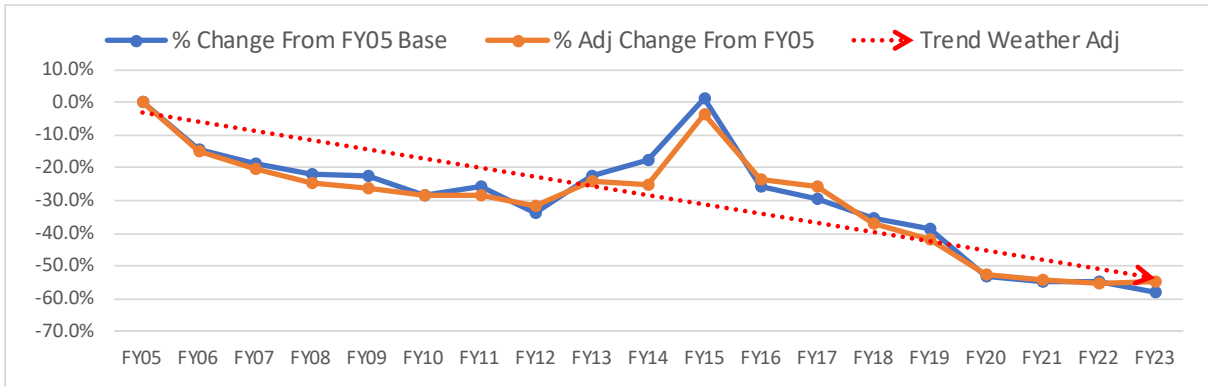
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Waukesha SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.72		FY23 Therm/GSF = 0.23		FY23 Total Btu/GSF = 43,003		05-23 Thm -41.1%				
FY23 Electric \$/GSF = \$ 0.80		FY23 Thermal \$/GSF = \$ 0.11		FY23 Energy \$/GSF = \$ 0.91		05-23 kwh -65.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	169,976	44,800	56,937	101,737	0.0%	48.47	100.0%	100.0%	101,737	0.0%
FY06	169,976	36,390	50,590	86,981	-14.5%	50.11	101.3%	98.7%	86,786	-14.7%
FY07	169,976	32,300	50,248	82,549	-18.9%	48.88	96.5%	99.2%	81,022	-20.4%
FY08	169,976	28,465	50,841	79,306	-22.0%	47.87	92.3%	98.7%	76,466	-24.8%
FY09	169,976	28,974	49,954	78,928	-22.4%	47.26	89.7%	98.5%	75,174	-26.1%
FY10	169,976	24,756	47,896	72,652	-28.6%	49.10	100.1%	100.2%	72,769	-28.5%
FY11	169,976	28,687	47,106	75,793	-25.5%	48.17	93.0%	98.5%	73,095	-28.2%
FY12	169,976	19,840	47,771	67,611	-33.5%	52.24	111.7%	98.8%	69,376	-31.8%
FY13	169,976	27,911	51,217	79,128	-22.2%	48.26	96.0%	99.0%	77,510	-23.8%
FY14	169,976	37,456	46,445	83,901	-17.5%	45.20	81.0%	98.6%	76,120	-25.2%
FY15	169,976	52,758	50,340	103,098	1.3%	46.08	90.7%	100.2%	98,313	-3.4%
FY16	169,976	32,248	43,635	75,883	-25.4%	50.51	106.5%	99.3%	77,674	-23.7%
FY17	169,976	31,676	40,069	71,745	-29.5%	51.99	115.3%	98.1%	75,833	-25.5%
FY18	169,976	26,999	38,860	65,858	-35.3%	48.73	95.9%	98.9%	64,326	-36.8%
FY19	169,976	31,312	31,104	62,416	-38.6%	47.88	92.5%	96.9%	59,121	-41.9%
FY20	169,976	24,386	23,421	47,807	-53.0%	49.85	101.7%	100.6%	48,381	-52.4%
FY21	169,976	26,332	19,635	45,967	-54.8%	50.84	104.2%	99.0%	46,879	-53.9%
FY22	169,976	25,777	20,122	45,899	-54.9%	50.90	100.8%	98.2%	45,741	-55.0%
FY23	169,976	23,469	19,533	43,003	-57.7%	51.09	112.5%	101.5%	46,220	-54.6%

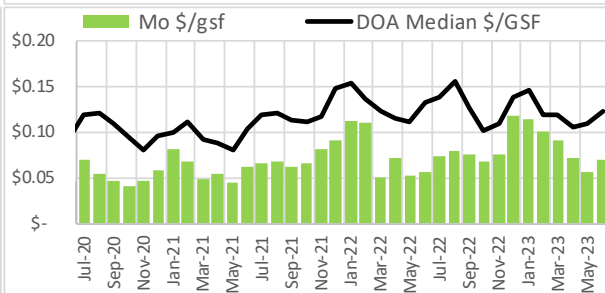
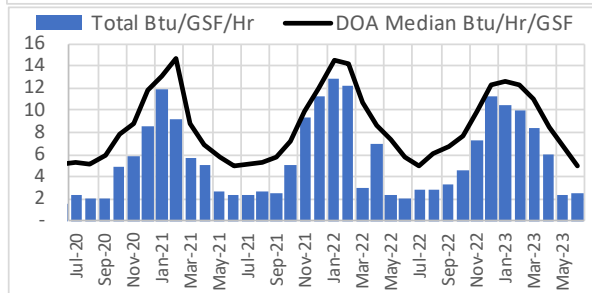
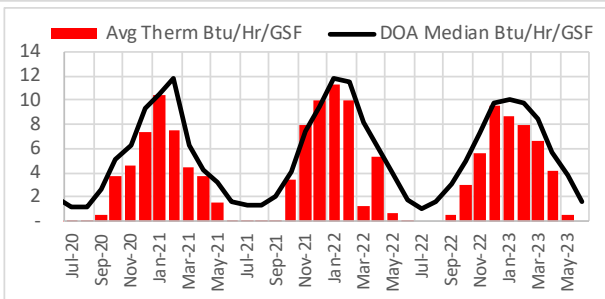
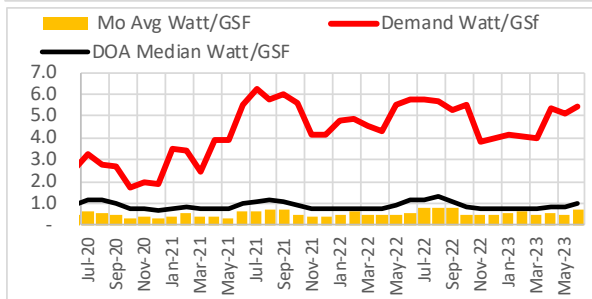
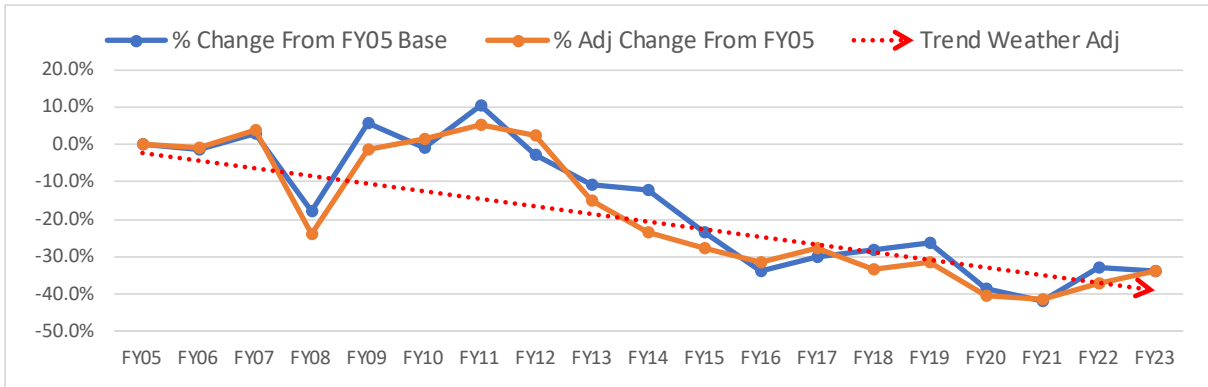
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOA-WI Rapids SOB Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 5.28		FY23 Therm/GSF = 0.34		FY23 Total Btu/GSF = 51,861		05-23 Thm -33.6%				
FY23 Electric \$/GSF = \$ 0.67		FY23 Thermal \$/GSF = \$ 0.32		FY23 Energy \$/GSF = \$ 1.00		05-23 kwh -34.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	51,552	50,308	27,827	78,136	0.0%	44.26	100.0%	100.0%	78,136	0.0%
FY06	51,552	42,140	34,877	77,017	-1.4%	45.56	101.3%	99.5%	77,367	-1.0%
FY07	51,552	39,279	41,063	80,342	2.8%	44.50	102.6%	99.8%	81,262	4.0%
FY08	51,552	23,935	40,359	64,294	-17.7%	42.10	80.7%	99.5%	59,472	-23.9%
FY09	51,552	42,187	40,263	82,450	5.5%	42.50	88.1%	99.1%	77,076	-1.4%
FY10	51,552	39,496	37,848	77,344	-1.0%	45.38	104.4%	100.5%	79,289	1.5%
FY11	51,552	50,138	36,280	86,418	10.6%	43.50	92.5%	99.2%	82,398	5.5%
FY12	51,552	43,331	32,525	75,856	-2.9%	47.63	109.6%	99.7%	79,910	2.3%
FY13	51,552	38,431	31,307	69,738	-10.7%	42.87	91.3%	99.6%	66,272	-15.2%
FY14	51,552	38,735	29,858	68,593	-12.2%	39.97	79.2%	97.7%	59,846	-23.4%
FY15	51,552	34,448	25,424	59,872	-23.4%	42.20	91.4%	98.7%	56,558	-27.6%
FY16	51,552	27,174	24,492	51,665	-33.9%	46.23	106.1%	101.1%	53,583	-31.4%
FY17	51,552	31,325	23,505	54,830	-29.8%	45.86	105.3%	100.4%	56,596	-27.6%
FY18	51,552	33,711	22,275	55,986	-28.3%	42.67	89.1%	98.5%	51,989	-33.5%
FY19	51,552	35,626	21,803	57,429	-26.5%	41.78	89.2%	99.5%	53,481	-31.6%
FY20	51,552	30,752	17,192	47,945	-38.6%	43.78	96.0%	99.5%	46,626	-40.3%
FY21	51,552	32,175	13,315	45,490	-41.8%	44.64	101.2%	99.9%	45,842	-41.3%
FY22	51,552	36,296	16,239	52,535	-32.8%	43.09	91.3%	98.2%	49,081	-37.2%
FY23	51,552	33,848	18,013	51,861	-33.6%	44.12	98.6%	101.0%	51,572	-34.0%

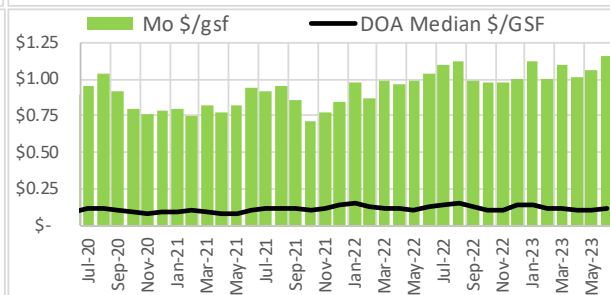
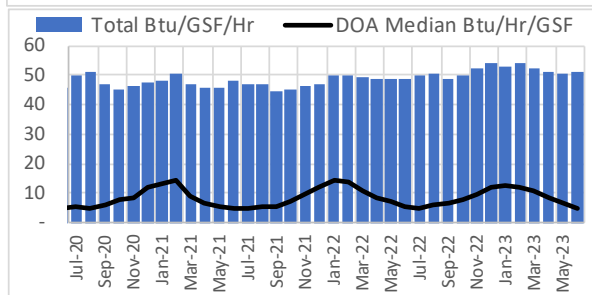
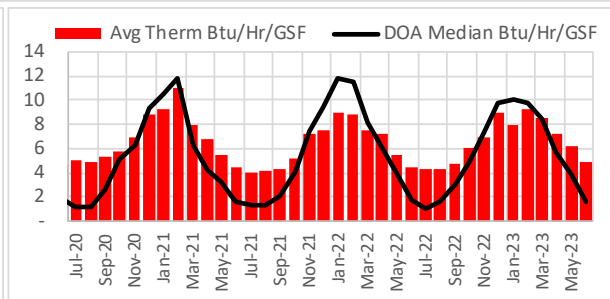
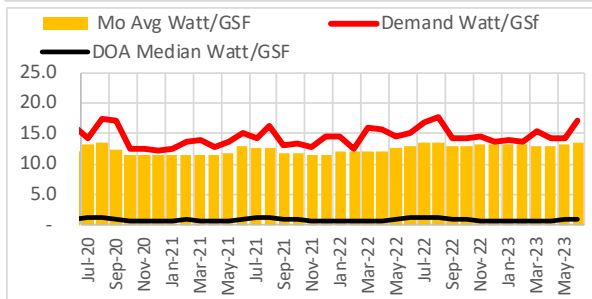
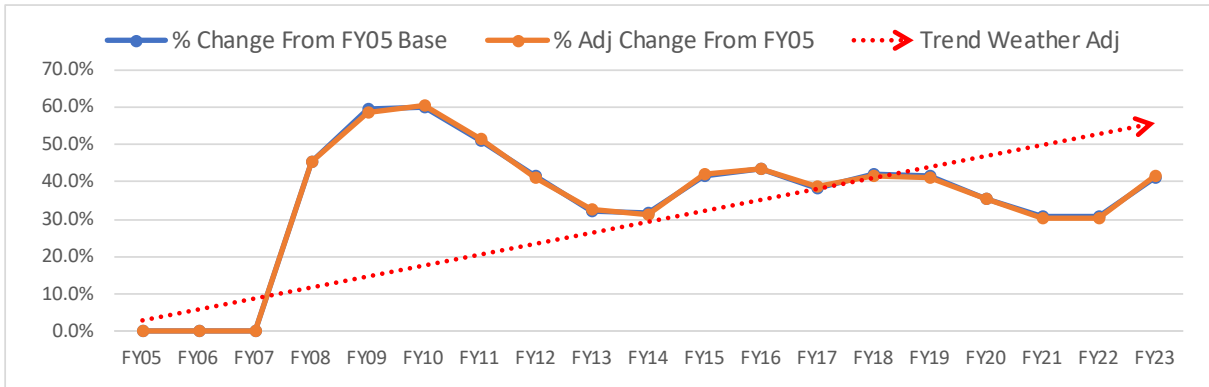
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOA-Femrite Data Center Fiscal Year 2023 State Facilities Energy Report (FY07 Base)

FY23 Electric kwh/GSF = 115.25		FY23 Therm/GSF = 0.58		FY23 Total Btu/GSF = 451,142		05-23 Thm				
FY23 Electric \$/GSF = \$ 12.59		FY23 Thermal \$/GSF = \$ -		FY23 Energy \$/GSF = \$ 12.59		05-23 kwh				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05										
FY06										
FY07	56,987	53,949	265,496	319,444	0.0%	47.46	100.0%	99.8%	318,822	0.0%
FY08	56,987	53,949	409,775	463,724	45.2%	46.19	98.1%	100.1%	463,200	45.3%
FY09	56,987	53,949	454,990	508,939	59.3%	45.66	97.3%	99.7%	505,954	58.7%
FY10	56,987	53,949	456,994	510,943	59.9%	47.10	98.9%	100.2%	511,093	60.3%
FY11	56,987	53,949	429,179	483,128	51.2%	46.81	98.2%	100.1%	482,647	51.4%
FY12	56,987	53,949	399,136	453,084	41.8%	51.51	105.7%	98.6%	450,388	41.3%
FY13	56,987	53,949	368,674	422,623	32.3%	47.29	98.8%	100.3%	422,906	32.6%
FY14	56,987	53,949	367,123	421,072	31.8%	44.58	96.2%	99.9%	418,775	31.4%
FY15	56,987	53,949	398,367	452,316	41.6%	45.84	98.4%	100.4%	453,216	42.2%
FY16	56,987	53,949	404,172	458,120	43.4%	49.68	102.5%	99.6%	457,913	43.6%
FY17	56,987	53,949	387,951	441,899	38.3%	49.72	102.3%	99.6%	441,739	38.6%
FY18	56,987	55,626	398,621	454,248	42.2%	46.66	96.3%	99.7%	451,088	41.5%
FY19	56,987	59,563	393,213	452,776	41.7%	45.88	96.7%	99.9%	450,457	41.3%
FY20	56,987	61,283	370,961	432,245	35.3%	48.07	100.1%	99.9%	431,787	35.4%
FY21	56,987	59,389	358,433	417,822	30.8%	47.61	98.5%	99.5%	415,137	30.2%
FY22	56,987	54,591	362,549	417,140	30.6%	48.04	100.2%	99.6%	415,634	30.4%
FY23	56,987	57,781	393,361	451,142	41.2%	48.64	100.8%	100.0%	451,623	41.7%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

## Department of Corrections



### SCOPE

Facilities Included: Columbia Correctional Institution; Prairie du Chien Correctional; Ethan Allen School to FY14; Racine Correctional Institution; Fox Lake Correctional Institution; Racine Youthful Offender Facility; Green Bay Correctional Institution; Redgranite Correctional Institution; Jackson Correctional Institution; Stanley Correctional Institution; Kettle Moraine Correctional Institution; Sturtevant Transitional Facility; Lincoln Hills School; Taychedah Correctional Institution; Milwaukee Secure Detention Facility; Waupun Complex, includes - Dodge Correctional Institution and Waupun Correctional Institution; New Lisbon Correctional Institution; Oak Hill Correctional Institution; Oshkosh Correctional Institution; and Wisconsin Secure Program Facility.

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 10.9 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 0.1 percent decrease**

Energy use (BTU/GSF/Yr) for FY23 decrease 0.1 percent from the previous fiscal year, FY22.

***Average Annual Change - Weather Adjusted: 0.7 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 0.7 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: -3.5 percent decrease.***

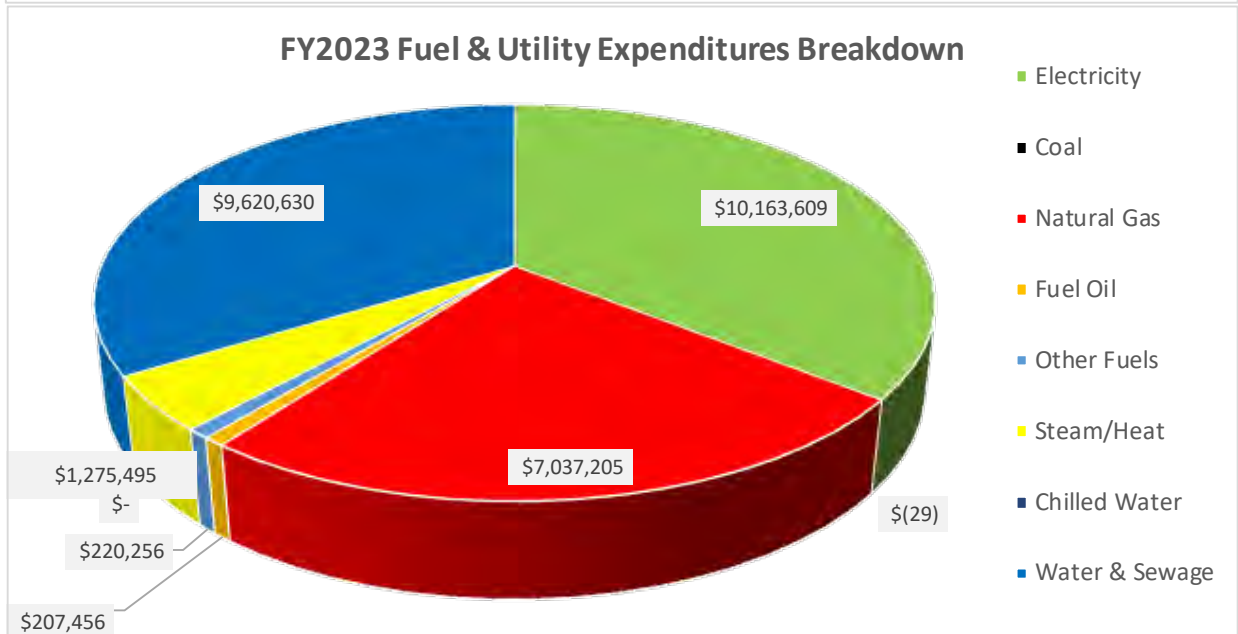
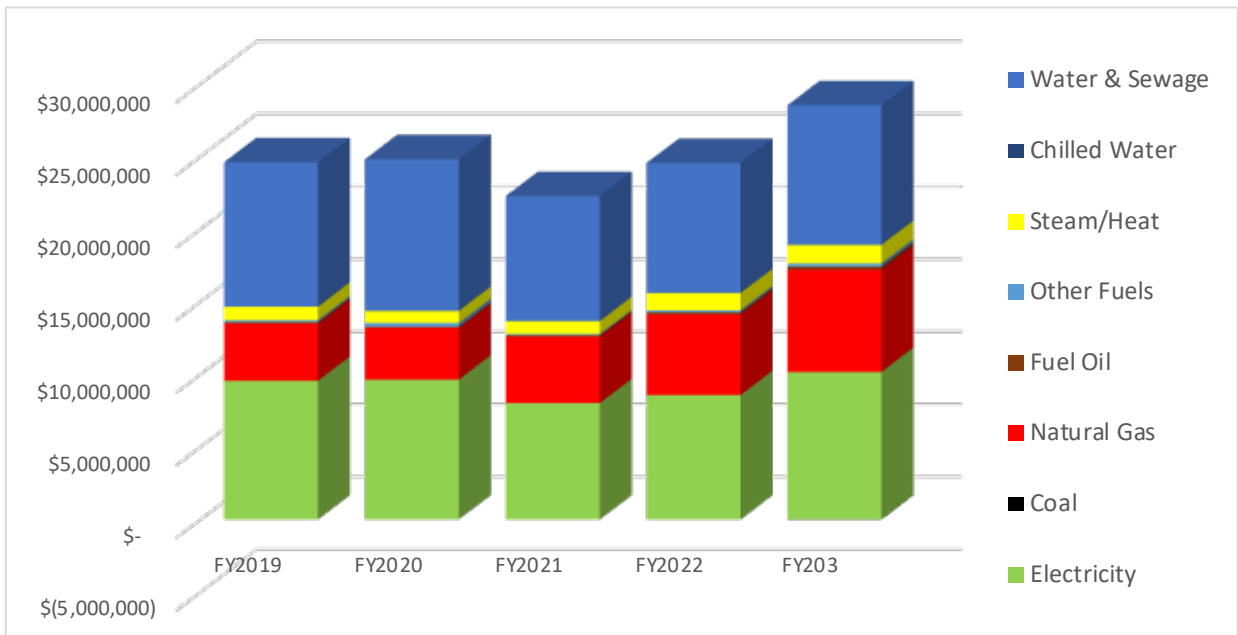
Gross square footage (GSF) has decreased 3.5% from the base fiscal year, FY05.

***Consumption Change from Base: 15.5 percent decrease.***

Total consumption was 15.5 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 14.1 percent less than in the base year when adjusted for weather compared to FY05.

**Corrections, Department of**

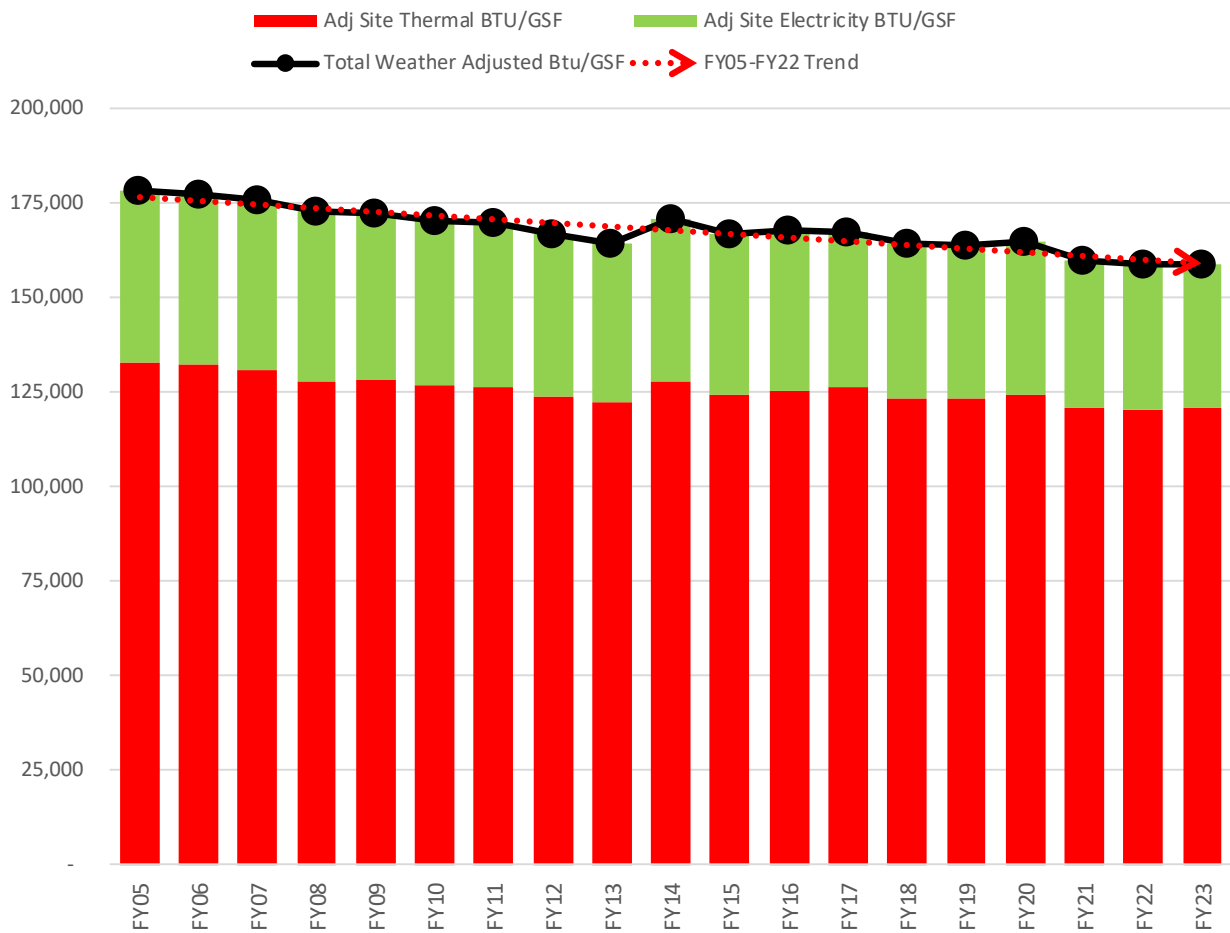
<b>Subcategory Name</b>	<b>FY2019</b>	<b>FY2020</b>	<b>FY2021</b>	<b>FY2022</b>	<b>FY203</b>
Electricity	\$ 9,554,173	\$ 9,634,257	\$ 8,017,001	\$ 8,571,053	\$ 10,163,609
Coal	\$ -	\$ 433	\$ -	\$ -	\$ (29)
Natural Gas	\$ 3,935,028	\$ 3,560,429	\$ 4,586,331	\$ 5,550,505	\$ 7,037,205
Fuel Oil	\$ 94,120	\$ 79,603	\$ 74,627	\$ 144,664	\$ 207,456
Other Fuels	\$ 146,558	\$ 261,281	\$ 92,912	\$ 145,629	\$ 220,256
Steam/Heat	\$ 927,102	\$ 827,488	\$ 890,708	\$ 1,184,940	\$ 1,275,495
Chilled Water	\$ 2,168	\$ 2,329	\$ -	\$ -	\$ -
Water & Sewage	\$ 9,938,057	\$ 10,439,751	\$ 8,608,853	\$ 8,952,322	\$ 9,620,630
<b>Total Utilities</b>	<b>\$ 24,597,207</b>	<b>\$ 24,805,570</b>	<b>\$ 22,270,431</b>	<b>\$ 24,549,112</b>	<b>\$ 28,524,622</b>



**DOC Fiscal Year 2023 Total State Agency Total (FY2005 Base)**

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	8,230,122	132,660	45,472	178,132	0.0%	46.96	100.0%	100.0%	178,132	0.0%
FY06	8,241,872	129,685	45,262	174,947	-1.8%	48.07	102.1%	99.7%	177,521	-0.3%
FY07	8,241,872	130,889	45,022	175,911	-1.2%	47.01	99.9%	99.8%	175,706	-1.4%
FY08	8,241,872	134,139	45,434	179,574	0.8%	45.36	95.2%	99.1%	172,780	-3.0%
FY09	8,241,872	135,521	44,649	180,170	1.1%	44.77	94.6%	99.3%	172,520	-3.2%
FY10	8,241,872	127,844	43,452	171,295	-3.8%	46.69	99.2%	100.1%	170,301	-4.4%
FY11	8,269,898	131,818	43,819	175,636	-1.4%	45.90	95.9%	98.8%	169,694	-4.7%
FY12	8,269,898	115,139	42,783	157,922	-11.3%	50.70	107.7%	100.0%	166,830	-6.3%
FY13	8,269,898	126,642	42,292	168,934	-5.2%	46.22	96.5%	99.4%	164,202	-7.8%
FY14	7,939,611	140,253	43,384	183,637	3.1%	43.13	91.3%	98.8%	170,861	-4.1%
FY15	7,939,611	131,434	42,395	173,829	-2.4%	44.62	94.7%	99.9%	166,805	-6.4%
FY16	7,939,611	119,703	42,100	161,803	-9.2%	48.79	104.9%	100.0%	167,635	-5.9%
FY17	7,939,611	119,888	41,468	161,357	-9.4%	49.18	105.4%	99.3%	167,554	-5.9%
FY18	7,939,611	127,041	41,429	168,470	-5.4%	46.05	96.9%	99.3%	164,292	-7.8%
FY19	7,939,611	129,370	40,848	170,218	-4.4%	45.19	95.2%	99.5%	163,806	-8.0%
FY20	7,939,611	124,301	40,700	165,002	-7.4%	47.28	100.1%	99.7%	165,045	-7.3%
FY21	7,939,611	119,593	39,519	159,111	-10.7%	47.29	101.0%	99.0%	159,944	-10.2%
FY22	7,939,611	120,905	39,127	160,032	-10.2%	47.32	99.5%	98.8%	158,906	-10.8%
FY23	7,939,611	118,201	37,864	156,064	-12.4%	48.19	102.3%	99.9%	158,702	-10.9%

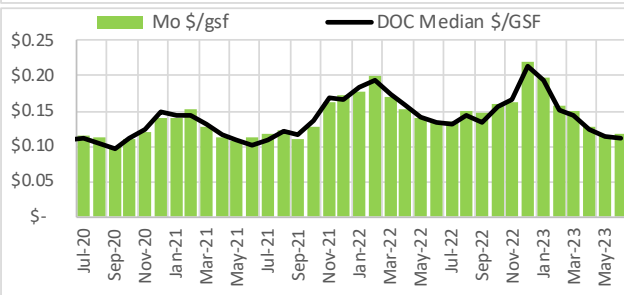
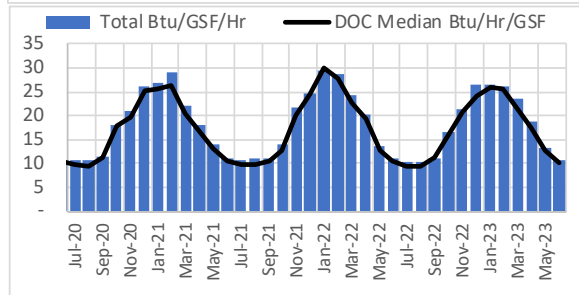
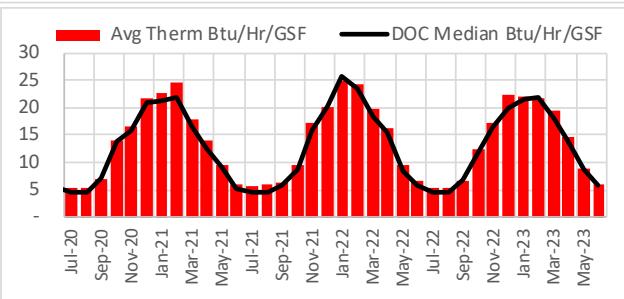
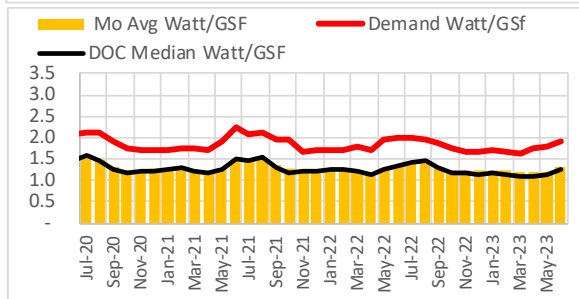
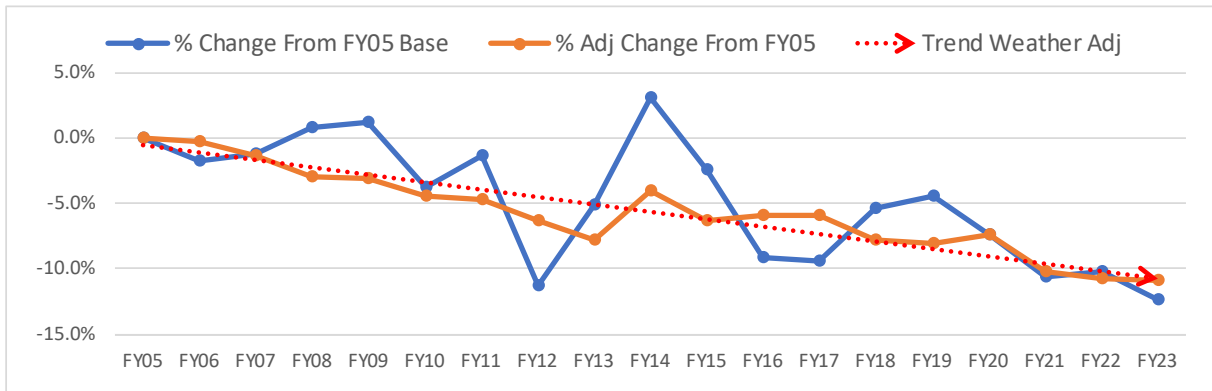
**Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)**



### DOC Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 11.09		FY23 Therm/GSF = 1.18		FY23 Total Btu/GSF = 156,064		05-23 Thm -8.9%				
FY23 Electric \$/GSF = \$ 1.05		FY23 Thermal \$/GSF = \$ 0.80		FY23 Energy \$/GSF = \$ 1.84		05-23 kwh -16.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	8,230,122	132,660	45,472	178,132	0.0%	46.96	100.0%	100.0%	178,132	0.0%
FY06	8,241,872	129,685	45,262	174,947	-1.8%	48.07	102.1%	99.7%	177,521	-0.3%
FY07	8,241,872	130,889	45,022	175,911	-1.2%	47.01	99.9%	99.8%	175,706	-1.4%
FY08	8,241,872	134,139	45,434	179,574	0.8%	45.36	95.2%	99.1%	172,780	-3.0%
FY09	8,241,872	135,521	44,649	180,170	1.1%	44.77	94.6%	99.3%	172,520	-3.2%
FY10	8,241,872	127,844	43,452	171,295	-3.8%	46.69	99.2%	100.1%	170,301	-4.4%
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FY15	7,939,611	131,434	42,395	173,829	-2.4%	44.62	94.7%	99.9%	166,805	-6.4%
FY16	7,939,611	119,703	42,100	161,803	-9.2%	48.79	104.9%	100.0%	167,635	-5.9%
FY17	7,939,611	119,888	41,468	161,357	-9.4%	49.18	105.4%	99.3%	167,554	-5.9%
FY18	7,939,611	127,041	41,429	168,470	-5.4%	46.05	96.9%	99.3%	164,292	-7.8%
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FY21	7,939,611	119,593	39,519	159,111	-10.7%	47.29	101.0%	99.0%	159,944	-10.2%
FY22	7,939,611	120,905	39,127	160,032	-10.2%	47.32	99.5%	98.8%	158,906	-10.8%
FY23	7,939,611	118,201	37,864	156,064	-12.4%	48.19	102.3%	99.9%	158,702	-10.9%

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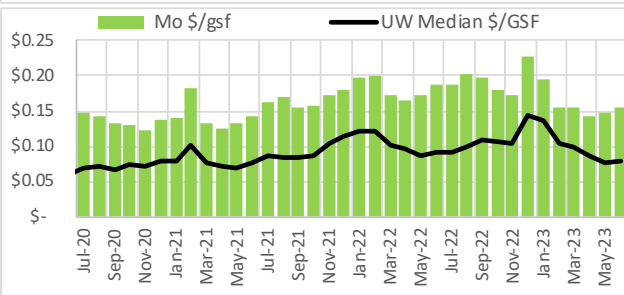
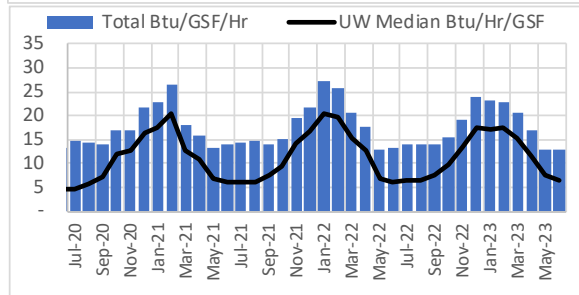
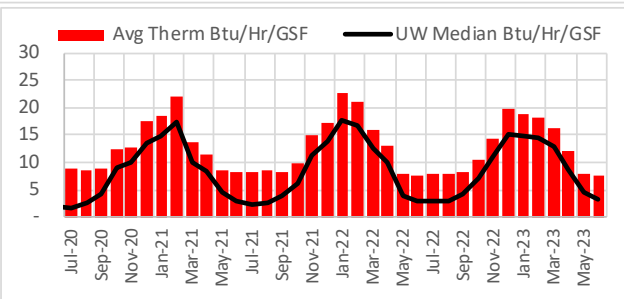
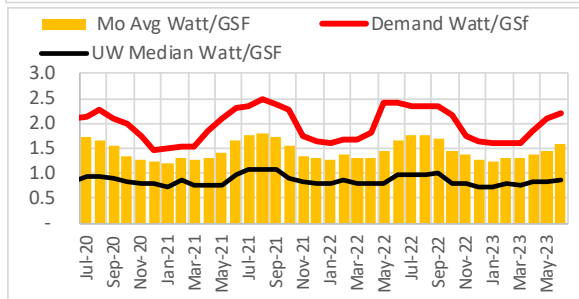
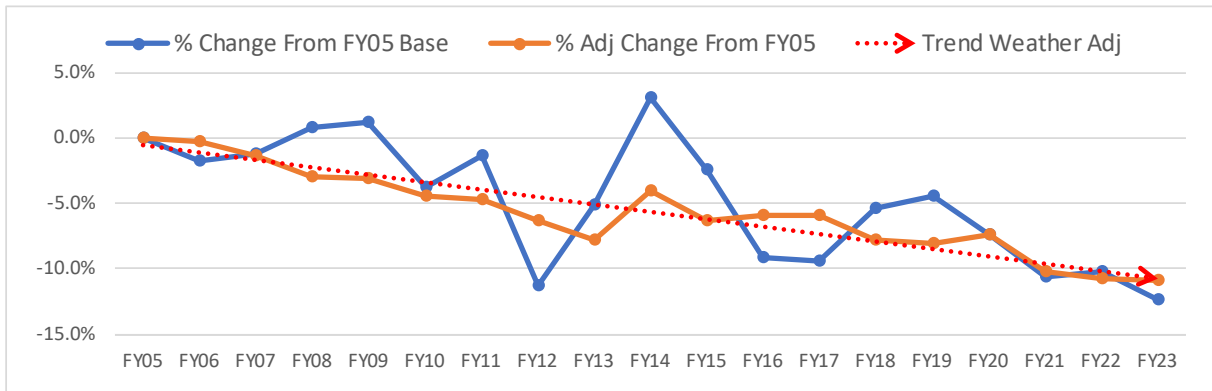




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FY23 Electric \$/GSF = \$ 1.05		FY23 Thermal \$/GSF = \$ 0.80		FY23 Energy \$/GSF = \$ 1.84		05-23 kwh -16.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
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FY20	7,939,611	124,301	40,700	165,002	-7.4%	47.28	100.1%	99.7%	165,045	-7.3%
FY21	7,939,611	119,593	39,519	159,111	-10.7%	47.29	101.0%	99.0%	159,944	-10.2%
FY22	7,939,611	120,905	39,127	160,032	-10.2%	47.32	99.5%	98.8%	158,906	-10.8%
FY23	7,939,611	118,201	37,864	156,064	-12.4%	48.19	102.3%	99.9%	158,702	-10.9%

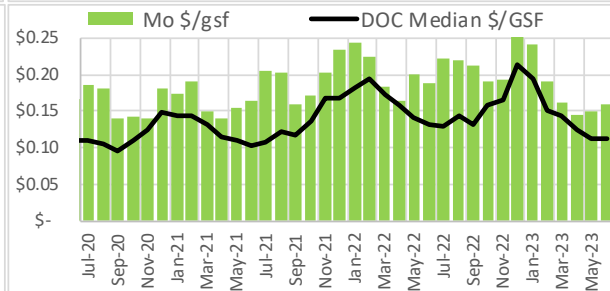
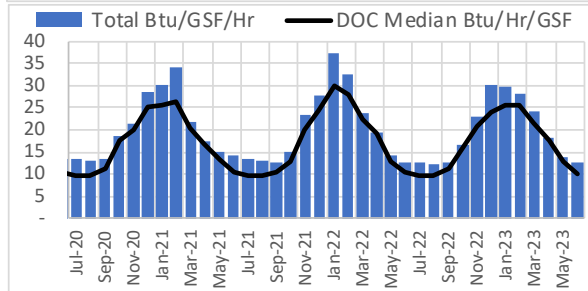
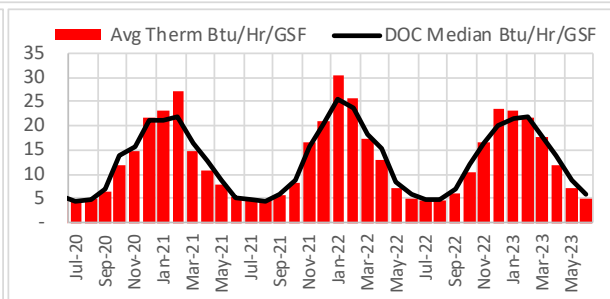
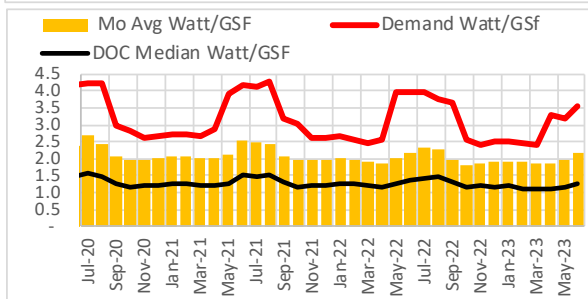
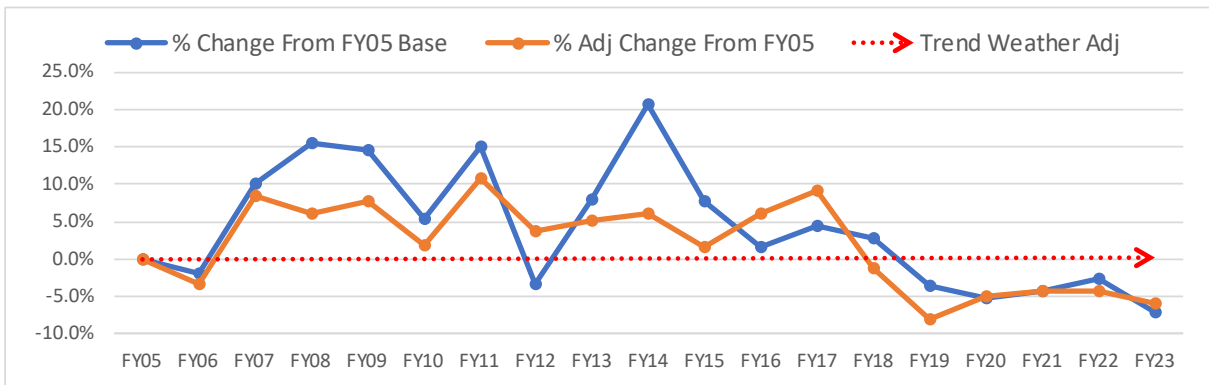
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Boscobel Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 17.40		FY23 Therm/GSF = 1.11		FY23 Total Btu/GSF = 170,456		05-23 Thm -3.5%				
FY23 Electric \$/GSF = \$ 1.54		FY23 Thermal \$/GSF = \$ 0.80		FY23 Energy \$/GSF = \$ 2.34		05-23 kwh -10.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	195,000	117,908	65,580	183,488	0.0%	46.84	100.0%	100.0%	183,488	0.0%
FY06	195,000	110,590	69,209	179,800	-2.0%	47.39	98.1%	99.5%	177,315	-3.4%
FY07	195,000	130,509	71,510	202,019	10.1%	46.26	97.9%	99.5%	198,871	8.4%
FY08	195,000	140,829	71,092	211,921	15.5%	44.24	88.2%	99.0%	194,620	6.1%
FY09	195,000	141,322	68,940	210,262	14.6%	44.25	91.1%	99.8%	197,562	7.7%
FY10	195,000	125,478	67,731	193,210	5.3%	45.47	95.1%	99.9%	186,996	1.9%
FY11	195,000	142,574	68,570	211,144	15.1%	46.21	95.2%	98.2%	203,105	10.7%
FY12	195,000	110,054	67,349	177,403	-3.3%	51.40	112.4%	99.0%	190,323	3.7%
FY13	195,000	131,264	66,796	198,059	7.9%	46.61	96.9%	98.8%	193,144	5.3%
FY14	195,000	154,267	66,998	221,265	20.6%	43.20	83.2%	98.9%	194,649	6.1%
FY15	195,000	132,228	65,530	197,758	7.8%	44.37	91.7%	99.8%	186,627	1.7%
FY16	195,000	121,598	65,086	186,684	1.7%	48.82	106.8%	99.7%	194,727	6.1%
FY17	195,000	125,584	66,075	191,659	4.5%	49.01	107.2%	99.1%	200,132	9.1%
FY18	195,000	123,377	65,059	188,437	2.7%	45.93	94.8%	99.1%	181,445	-1.1%
FY19	195,000	112,270	64,538	176,809	-3.6%	44.97	93.0%	99.5%	168,570	-8.1%
FY20	195,000	108,738	65,022	173,760	-5.3%	47.56	101.1%	98.9%	174,212	-5.1%
FY21	195,000	111,055	64,734	175,790	-4.2%	47.24	100.5%	98.7%	175,555	-4.3%
FY22	195,000	116,454	62,211	178,665	-2.6%	46.88	98.1%	98.5%	175,478	-4.4%
FY23	195,000	111,072	59,384	170,456	-7.1%	47.70	102.4%	99.4%	172,819	-5.8%

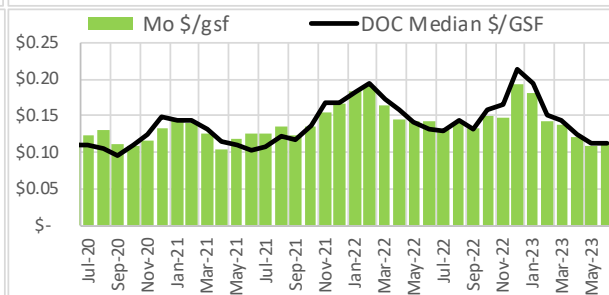
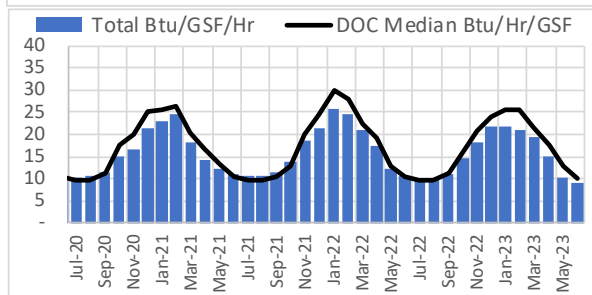
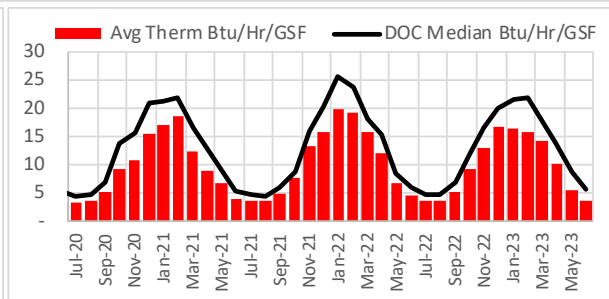
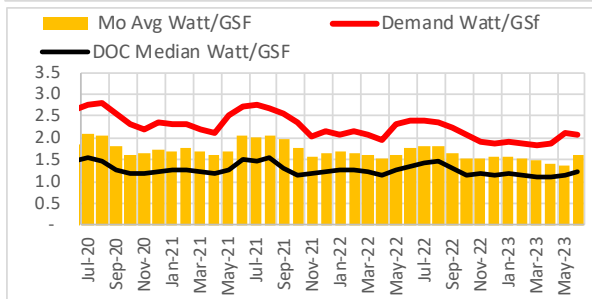
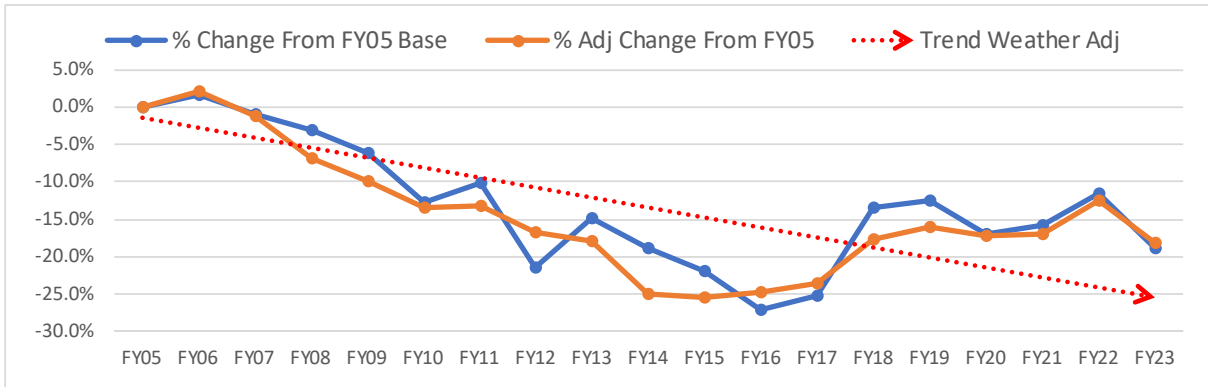
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOC-Columbia Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 13.79		FY23 Therm/GSF = 0.85		FY23 Total Btu/GSF = 132,219		05-23 Thm -14.7%				
FY23 Electric \$/GSF = \$ 1.15		FY23 Thermal \$/GSF = \$ 0.55		FY23 Energy \$/GSF = \$ 1.70		05-23 kwh -23.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	330,807	101,211	61,594	162,805	0.0%	48.12	100.0%	100.0%	162,805	0.0%
FY06	330,807	102,969	62,609	165,578	1.7%	48.65	101.0%	99.4%	166,211	2.1%
FY07	330,807	99,321	61,866	161,187	-1.0%	47.46	99.9%	99.7%	160,886	-1.2%
FY08	330,807	96,556	61,086	157,642	-3.2%	46.19	94.4%	99.4%	151,850	-6.7%
FY09	330,807	97,894	54,784	152,678	-6.2%	45.66	94.5%	99.2%	146,837	-9.8%
FY10	330,807	90,489	51,677	142,166	-12.7%	47.10	98.6%	100.0%	140,863	-13.5%
FY11	330,807	93,736	52,754	146,490	-10.0%	46.81	95.1%	98.6%	141,130	-13.3%
FY12	330,807	76,039	52,036	128,074	-21.3%	51.51	109.9%	99.7%	135,430	-16.8%
FY13	330,807	87,419	51,107	138,526	-14.9%	47.29	95.3%	98.8%	133,813	-17.8%
FY14	330,807	79,482	52,584	132,066	-18.9%	44.58	88.5%	98.2%	121,996	-25.1%
FY15	330,807	75,521	51,797	127,318	-21.8%	45.84	92.1%	100.1%	121,400	-25.4%
FY16	330,807	68,488	50,360	118,847	-27.0%	49.68	105.6%	100.0%	122,652	-24.7%
FY17	330,807	71,170	50,475	121,645	-25.3%	49.72	104.6%	99.4%	124,595	-23.5%
FY18	330,807	87,961	52,799	140,759	-13.5%	46.66	93.0%	99.0%	134,091	-17.6%
FY19	330,807	87,400	55,082	142,482	-12.5%	45.88	93.7%	99.6%	136,755	-16.0%
FY20	330,807	83,157	52,189	135,346	-16.9%	48.07	99.7%	99.6%	134,872	-17.2%
FY21	330,807	83,788	53,417	137,206	-15.7%	47.61	98.3%	98.8%	135,191	-17.0%
FY22	330,807	92,162	51,977	144,138	-11.5%	48.04	98.9%	98.6%	142,400	-12.5%
FY23	330,807	85,141	47,078	132,219	-18.8%	48.64	101.4%	100.0%	133,373	-18.1%

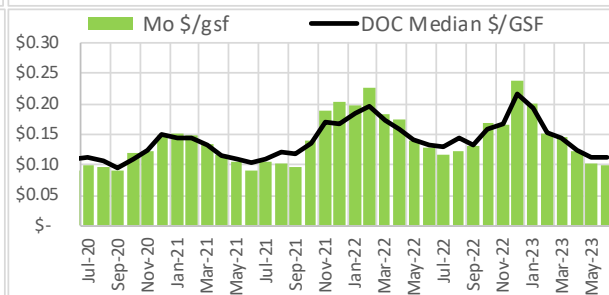
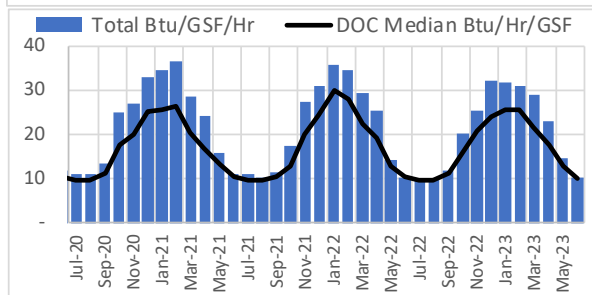
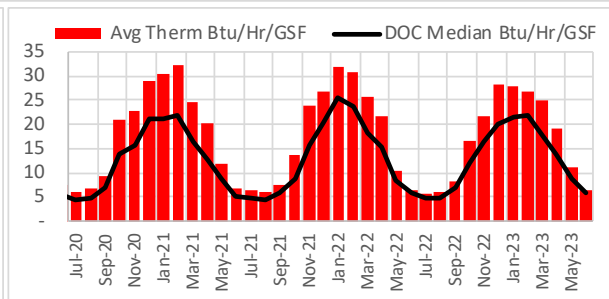
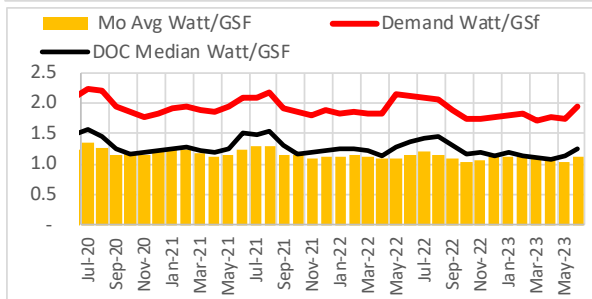
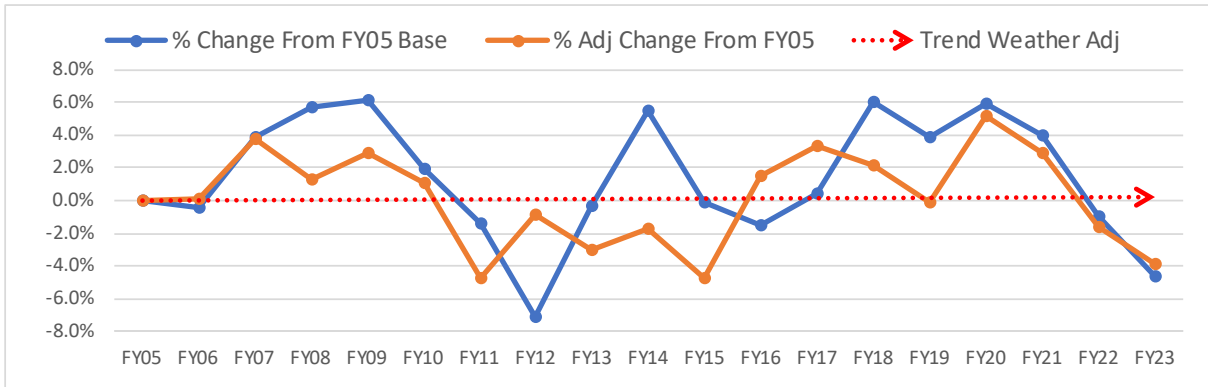
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Fox Lake Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.63		FY23 Therm/GSF = 1.48		FY23 Total Btu/GSF = 180,602		05-23 Thm -0.6%				
FY23 Electric \$/GSF = \$ 0.89		FY23 Thermal \$/GSF = \$ 0.88		FY23 Energy \$/GSF = \$ 1.76		05-23 kwh -16.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	533,407	149,959	39,424	189,382	0.0%	48.12	100.0%	100.0%	189,382	0.0%
FY06	533,407	150,044	38,497	188,540	-0.4%	48.65	100.7%	99.9%	189,524	0.1%
FY07	533,407	156,180	40,495	196,675	3.9%	47.46	100.0%	99.4%	196,500	3.8%
FY08	533,407	158,407	41,802	200,209	5.7%	46.19	95.0%	98.8%	191,772	1.3%
FY09	533,407	160,560	40,495	201,055	6.2%	45.66	96.4%	99.0%	194,795	2.9%
FY10	533,407	154,130	38,859	192,990	1.9%	47.10	99.0%	100.0%	191,428	1.1%
FY11	533,407	146,696	40,023	186,719	-1.4%	46.81	96.1%	98.7%	180,427	-4.7%
FY12	533,407	137,316	38,721	176,037	-7.0%	51.51	108.5%	100.3%	187,836	-0.8%
FY13	533,407	149,603	39,251	188,854	-0.3%	47.29	96.8%	99.0%	183,734	-3.0%
FY14	533,407	160,281	39,451	199,732	5.5%	44.58	91.9%	98.7%	186,230	-1.7%
FY15	533,407	151,557	37,712	189,268	-0.1%	45.84	94.3%	99.5%	180,350	-4.8%
FY16	533,407	149,721	36,919	186,639	-1.4%	49.68	103.8%	100.0%	192,281	1.5%
FY17	533,407	153,042	37,195	190,237	0.5%	49.72	103.7%	99.6%	195,807	3.4%
FY18	533,407	163,412	37,357	200,769	6.0%	46.66	95.7%	99.5%	193,471	2.2%
FY19	533,407	159,521	37,193	196,714	3.9%	45.88	95.5%	99.5%	189,289	0.0%
FY20	533,407	163,477	37,058	200,535	5.9%	48.07	99.2%	99.9%	199,167	5.2%
FY21	533,407	160,749	36,141	196,890	4.0%	47.61	98.9%	99.2%	194,909	2.9%
FY22	533,407	153,075	34,565	187,639	-0.9%	48.04	99.3%	99.1%	186,293	-1.6%
FY23	533,407	147,724	32,878	180,602	-4.6%	48.64	100.9%	100.0%	181,970	-3.9%

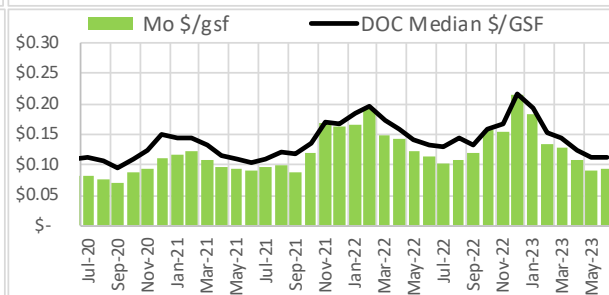
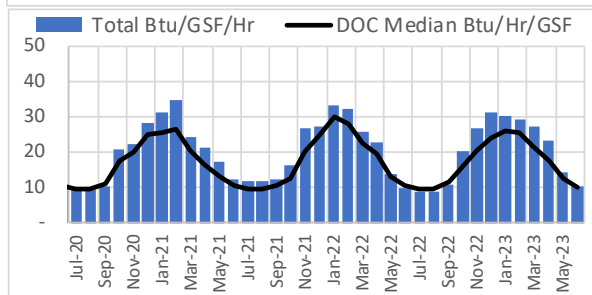
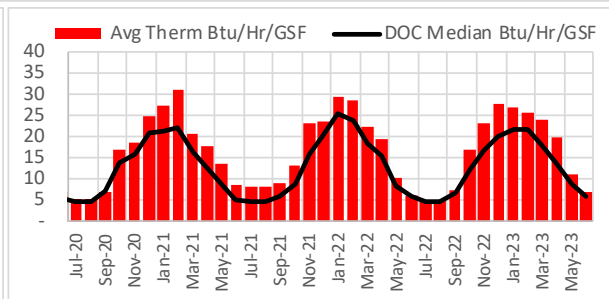
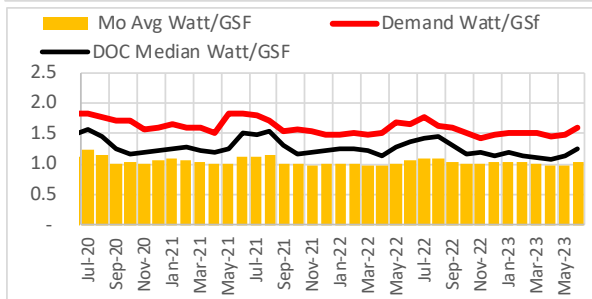
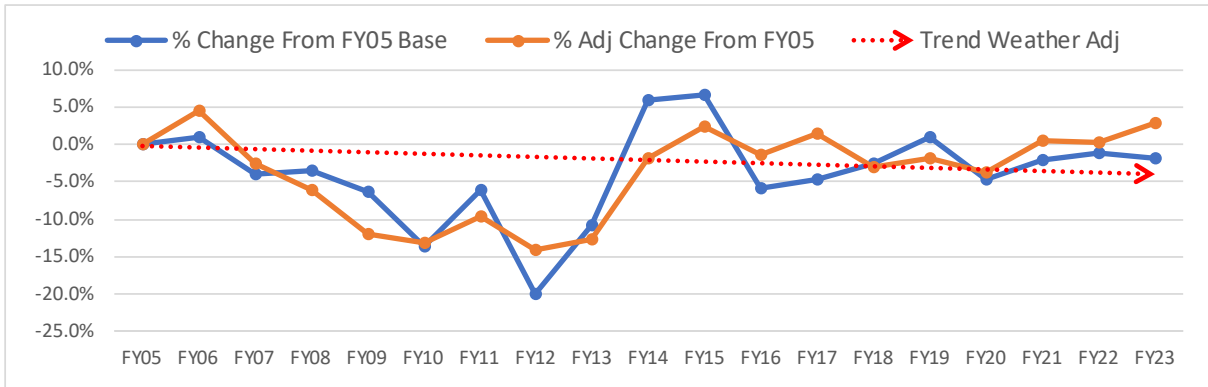
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Green Bay Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.02		FY23 Therm/GSF = 1.45		FY23 Total Btu/GSF = 175,697		05-23 Thm 4.4%				
FY23 Electric \$/GSF = \$ 0.76		FY23 Thermal \$/GSF = \$ 0.83		FY23 Energy \$/GSF = \$ 1.59		05-23 kwh -3.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	453,750	146,759	32,097	178,856	0.0%	45.92	100.0%	100.0%	178,856	0.0%
FY06	453,750	147,306	33,408	180,714	1.0%	47.27	104.3%	100.0%	187,048	4.6%
FY07	453,750	139,103	32,619	171,722	-4.0%	46.64	101.9%	100.1%	174,444	-2.5%
FY08	453,750	139,251	33,211	172,462	-3.6%	45.02	96.9%	99.3%	167,902	-6.1%
FY09	453,750	135,705	31,831	167,536	-6.3%	43.47	92.6%	99.4%	157,281	-12.1%
FY10	453,750	123,702	30,828	154,531	-13.6%	45.99	100.5%	100.2%	155,156	-13.3%
FY11	453,750	136,752	31,257	168,009	-6.1%	44.59	95.5%	99.7%	161,792	-9.5%
FY12	453,750	112,157	30,945	143,102	-20.0%	49.86	109.3%	100.1%	153,598	-14.1%
FY13	453,750	128,064	31,432	159,496	-10.8%	45.29	97.5%	99.8%	156,228	-12.7%
FY14	453,750	157,043	32,353	189,396	5.9%	41.95	91.5%	99.1%	175,682	-1.8%
FY15	453,750	158,051	32,665	190,716	6.6%	43.98	95.4%	99.7%	183,303	2.5%
FY16	453,750	135,637	32,825	168,462	-5.8%	48.11	105.8%	100.2%	176,399	-1.4%
FY17	453,750	137,774	32,745	170,519	-4.7%	48.65	107.8%	100.4%	181,459	1.5%
FY18	453,750	142,274	32,223	174,497	-2.4%	45.77	99.4%	99.5%	173,464	-3.0%
FY19	453,750	148,400	32,065	180,466	0.9%	44.89	96.7%	99.7%	175,419	-1.9%
FY20	453,750	138,531	32,103	170,634	-4.6%	46.41	101.0%	100.0%	171,986	-3.8%
FY21	453,750	143,077	31,991	175,068	-2.1%	47.28	103.4%	99.6%	179,847	0.6%
FY22	453,750	145,955	30,782	176,737	-1.2%	46.75	101.9%	99.1%	179,185	0.2%
FY23	453,750	144,920	30,778	175,697	-1.8%	51.09	105.7%	100.4%	184,122	2.9%

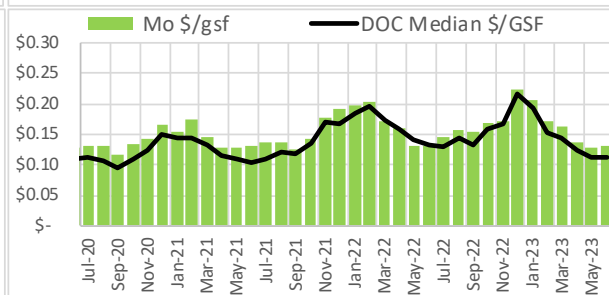
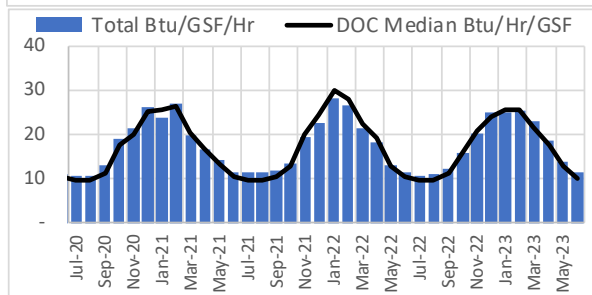
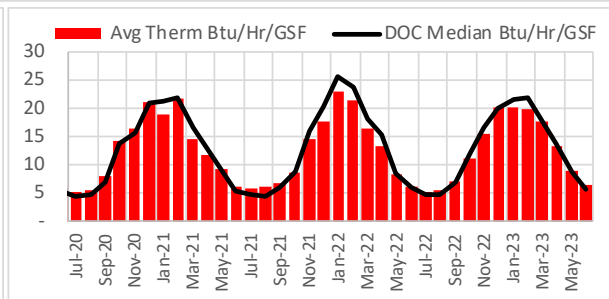
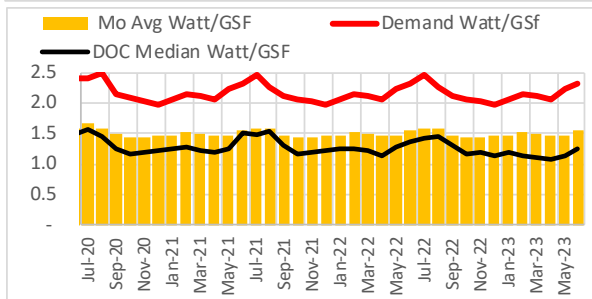
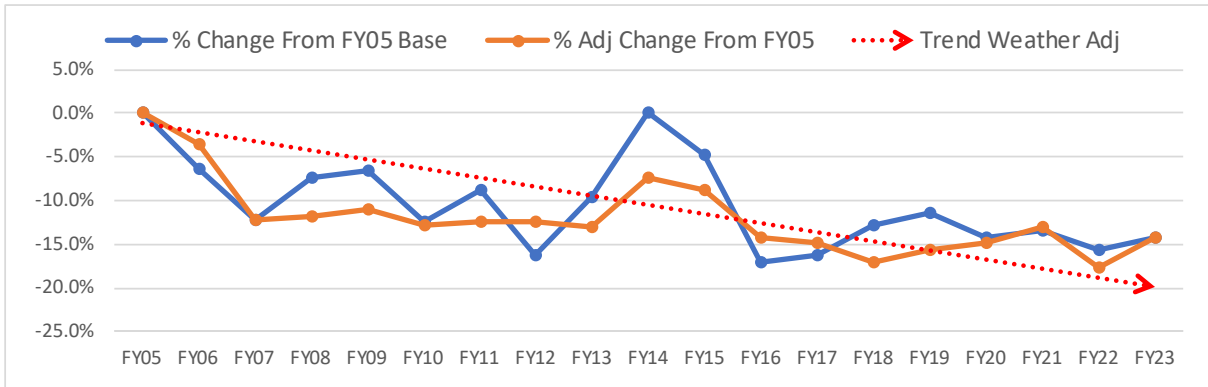
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Jackson Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 13.10		FY23 Therm/GSF = 1.10		FY23 Total Btu/GSF = 154,422		05-23 Thm -8.7%				
FY23 Electric \$/GSF = \$ 1.18		FY23 Thermal \$/GSF = \$ 0.77		FY23 Energy \$/GSF = \$ 1.95		05-23 kwh -25.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	390,613	120,043	59,864	179,907	0.0%	45.85	100.0%	100.0%	179,907	0.0%
FY06	390,613	116,901	51,678	168,579	-6.3%	47.80	104.4%	99.8%	173,653	-3.5%
FY07	390,613	106,704	51,339	158,043	-12.2%	46.32	100.0%	99.8%	157,902	-12.2%
FY08	390,613	116,608	49,995	166,603	-7.4%	43.27	93.6%	99.4%	158,841	-11.7%
FY09	390,613	117,792	50,166	167,959	-6.6%	42.97	93.4%	99.5%	159,947	-11.1%
FY10	390,613	109,180	48,546	157,726	-12.3%	45.29	99.0%	100.0%	156,695	-12.9%
FY11	390,613	115,370	48,826	164,196	-8.7%	43.68	94.4%	99.4%	157,474	-12.5%
FY12	390,613	102,124	48,606	150,730	-16.2%	49.02	106.5%	100.2%	157,454	-12.5%
FY13	390,613	113,949	48,803	162,751	-9.5%	43.85	94.6%	99.5%	156,395	-13.1%
FY14	390,613	130,328	49,841	180,169	0.1%	41.37	90.1%	98.7%	166,584	-7.4%
FY15	390,613	123,806	47,392	171,197	-4.8%	43.42	94.2%	99.8%	163,984	-8.9%
FY16	390,613	103,291	46,058	149,349	-17.0%	47.61	104.7%	100.1%	154,279	-14.2%
FY17	390,613	104,794	45,730	150,525	-16.3%	47.08	102.7%	99.9%	153,285	-14.8%
FY18	390,613	111,107	45,752	156,859	-12.8%	42.94	93.4%	99.6%	149,292	-17.0%
FY19	390,613	113,706	45,650	159,356	-11.4%	42.23	93.3%	100.0%	151,680	-15.7%
FY20	390,613	107,941	46,414	154,355	-14.2%	45.39	99.1%	99.9%	153,398	-14.7%
FY21	390,613	110,686	44,919	155,605	-13.5%	46.03	100.8%	99.6%	156,376	-13.1%
FY22	390,613	107,128	44,713	151,841	-15.6%	44.82	96.8%	99.5%	148,142	-17.7%
FY23	390,613	109,710	44,713	154,422	-14.2%	45.80	99.9%	99.7%	154,193	-14.3%

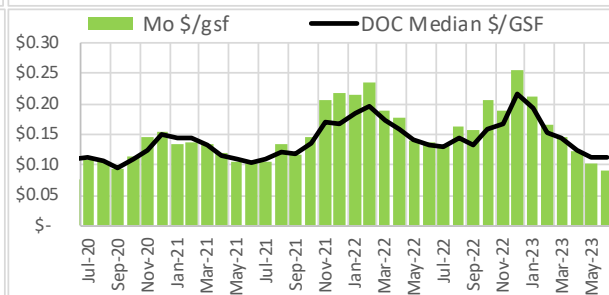
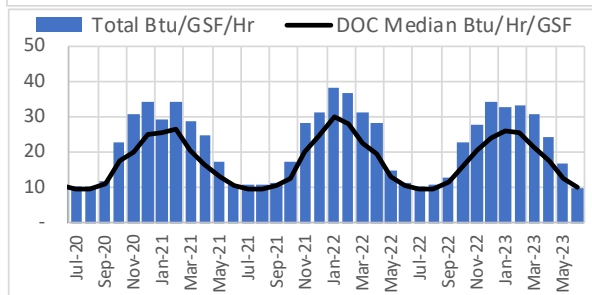
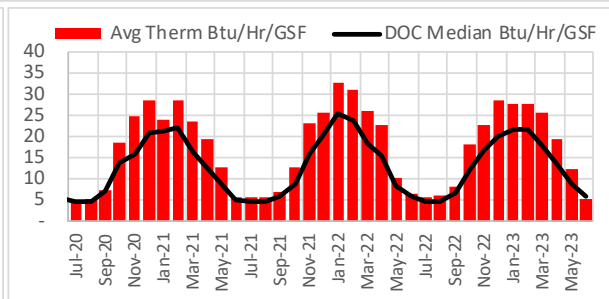
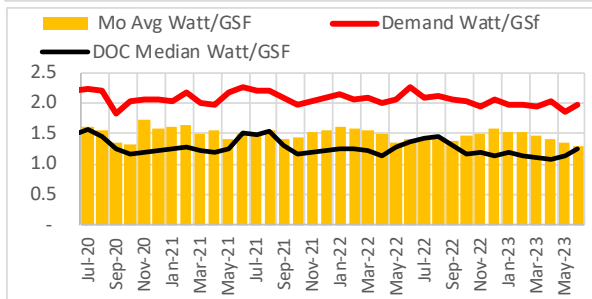
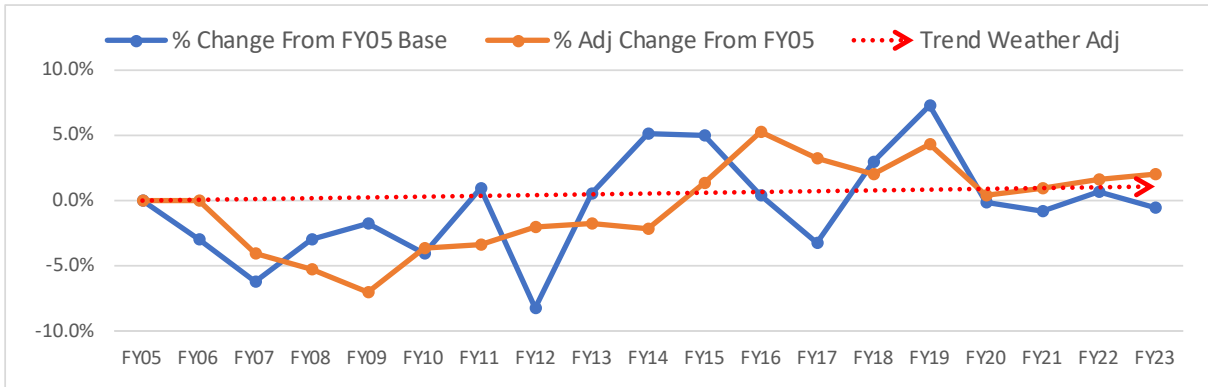
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Kettle Moraine Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 12.73		FY23 Therm/GSF = 1.50		FY23 Total Btu/GSF = 193,860		05-23 Thm 7.4%				
FY23 Electric \$/GSF = \$ 1.06		FY23 Thermal \$/GSF = \$ 0.87		FY23 Energy \$/GSF = \$ 1.94		05-23 kwh -13.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	361,612	144,408	50,502	194,910	0.0%	45.92	100.0%	100.0%	194,910	0.0%
FY06	361,612	138,897	50,138	189,035	-3.0%	47.27	104.0%	100.7%	194,940	0.0%
FY07	361,612	132,421	50,482	182,903	-6.2%	46.64	102.9%	100.5%	187,043	-4.0%
FY08	361,612	138,258	50,885	189,143	-3.0%	45.02	97.1%	99.3%	184,784	-5.2%
FY09	361,612	140,573	50,817	191,390	-1.8%	43.47	93.6%	98.0%	181,384	-6.9%
FY10	361,612	136,537	50,441	186,978	-4.1%	45.99	100.4%	100.7%	187,907	-3.6%
FY11	361,612	144,475	52,175	196,650	0.9%	44.59	94.8%	98.5%	188,363	-3.4%
FY12	361,612	129,572	49,476	179,049	-8.1%	49.86	108.8%	101.2%	191,073	-2.0%
FY13	361,612	149,178	46,663	195,841	0.5%	45.29	97.3%	99.6%	191,635	-1.7%
FY14	361,612	160,181	44,828	205,009	5.2%	41.95	91.5%	98.4%	190,701	-2.2%
FY15	361,612	159,012	45,503	204,515	4.9%	43.98	95.8%	99.5%	197,558	1.4%
FY16	361,612	151,142	44,629	195,771	0.4%	48.11	106.1%	100.6%	205,214	5.3%
FY17	361,612	145,237	43,347	188,584	-3.2%	48.65	108.4%	101.3%	201,285	3.3%
FY18	361,612	156,141	44,642	200,783	3.0%	45.77	98.8%	99.7%	198,736	2.0%
FY19	361,612	163,471	45,603	209,073	7.3%	44.89	96.6%	99.5%	203,278	4.3%
FY20	361,612	149,384	45,209	194,593	-0.2%	46.41	100.6%	100.2%	195,628	0.4%
FY21	361,612	147,566	45,702	193,269	-0.8%	47.28	102.4%	100.1%	196,777	1.0%
FY22	361,612	151,536	44,783	196,319	0.7%	46.75	101.2%	99.8%	198,018	1.6%
FY23	361,612	150,418	43,442	193,860	-0.5%	47.58	103.2%	100.6%	198,846	2.0%

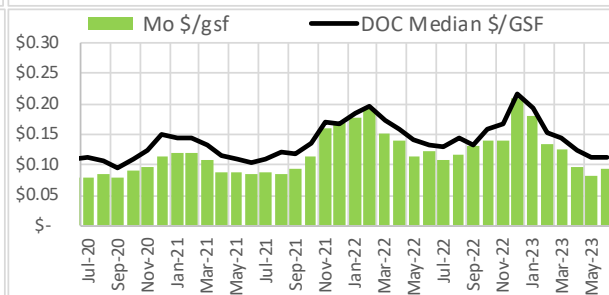
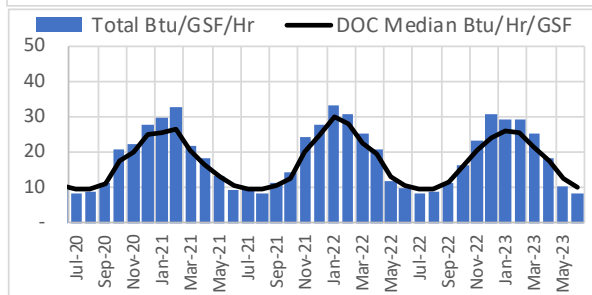
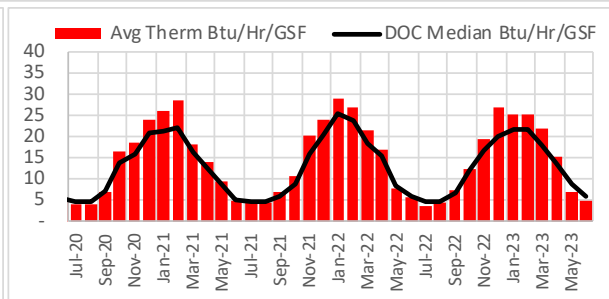
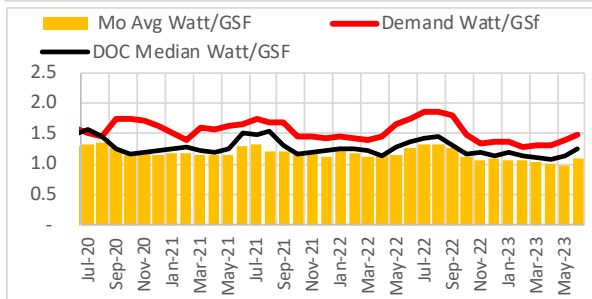
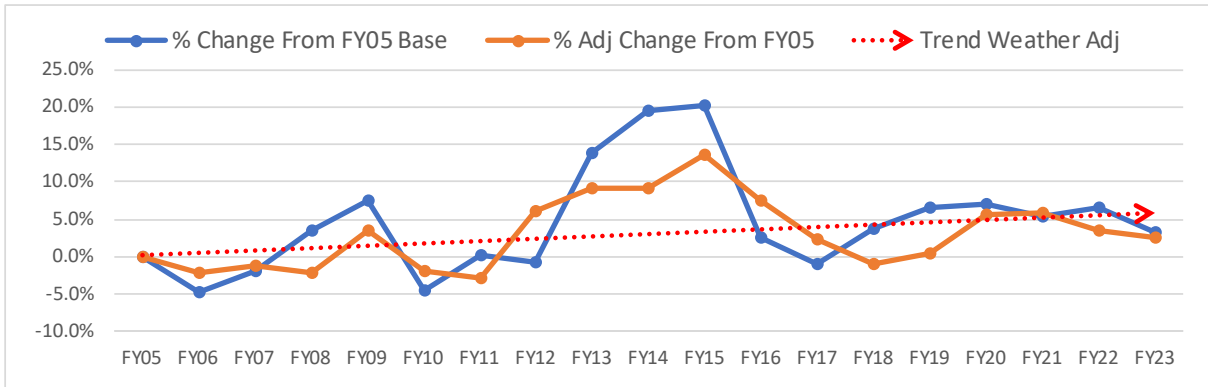
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Lincoln Hills Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.83		FY23 Therm/GSF = 1.26		FY23 Total Btu/GSF = 159,711		05-23 Thm 0.9%				
FY23 Electric \$/GSF = \$ 0.80		FY23 Thermal \$/GSF = \$ 0.75		FY23 Energy \$/GSF = \$ 1.55		05-23 kwh 9.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	249,792	124,056	30,725	154,781	0.0%	44.26	100.0%	100.0%	154,781	0.0%
FY06	249,792	118,831	28,501	147,332	-4.8%	45.56	103.5%	100.2%	151,525	-2.1%
FY07	249,792	123,766	27,976	151,742	-2.0%	44.50	101.0%	99.9%	152,900	-1.2%
FY08	249,792	128,636	31,397	160,033	3.4%	42.10	93.5%	98.9%	151,331	-2.2%
FY09	249,792	133,673	32,717	166,390	7.5%	42.50	95.3%	99.8%	160,068	3.4%
FY10	249,792	117,257	30,441	147,698	-4.6%	45.38	103.3%	100.3%	151,683	-2.0%
FY11	249,792	124,713	30,228	154,941	0.1%	43.50	96.6%	99.4%	150,464	-2.8%
FY12	249,792	118,982	34,727	153,709	-0.7%	47.63	108.6%	100.7%	164,212	6.1%
FY13	249,792	137,976	38,281	176,257	13.9%	42.87	94.8%	99.9%	169,028	9.2%
FY14	249,792	146,481	38,382	184,863	19.4%	39.97	89.2%	100.0%	169,080	9.2%
FY15	249,792	147,239	38,767	186,006	20.2%	42.20	93.3%	99.4%	175,964	13.7%
FY16	249,792	120,206	38,553	158,759	2.6%	46.23	106.2%	100.5%	166,372	7.5%
FY17	249,792	115,807	37,301	153,108	-1.1%	45.86	104.5%	100.2%	158,386	2.3%
FY18	249,792	123,095	37,372	160,467	3.7%	42.67	94.2%	99.5%	153,180	-1.0%
FY19	249,792	128,124	36,657	164,782	6.5%	41.78	92.8%	99.6%	155,423	0.4%
FY20	249,792	129,179	36,399	165,579	7.0%	43.78	98.3%	100.1%	163,388	5.6%
FY21	249,792	126,928	36,289	163,217	5.5%	44.64	100.6%	99.9%	163,986	5.9%
FY22	249,792	129,490	35,587	165,077	6.7%	43.09	96.3%	99.5%	160,125	3.5%
FY23	249,792	126,165	33,546	159,711	3.2%	44.12	99.2%	100.3%	158,855	2.6%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*

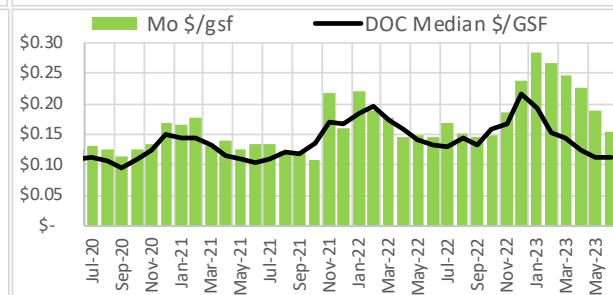
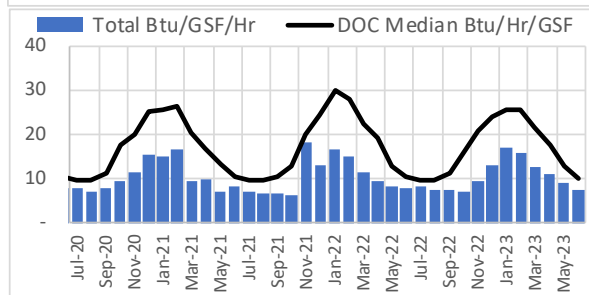
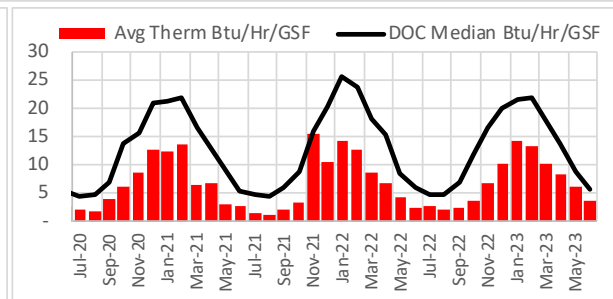
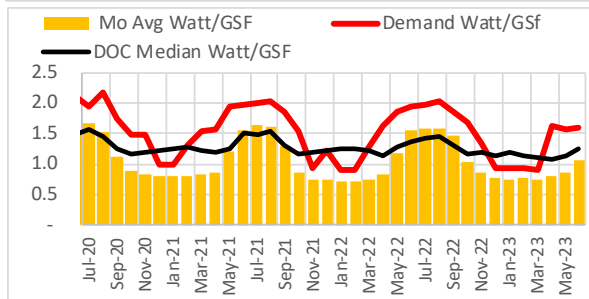
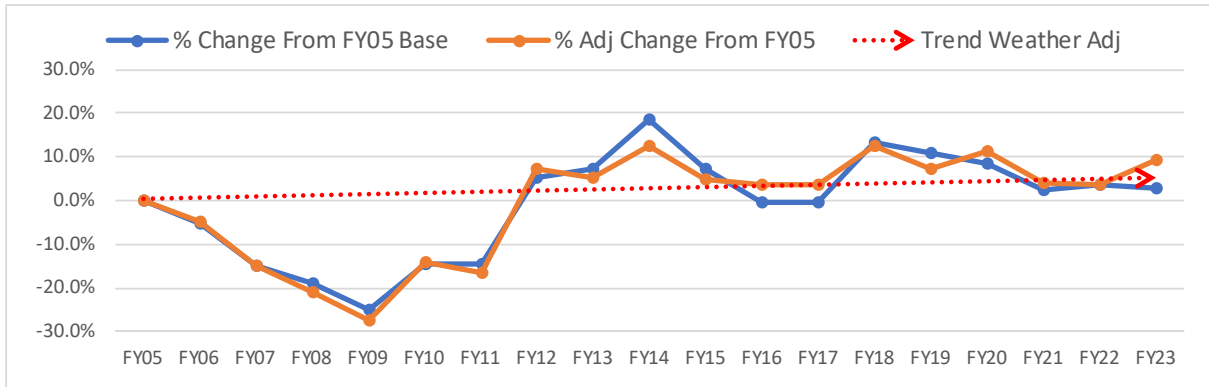




### DOC-Milwaukee Secure Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.99		FY23 Therm/GSF = 0.60		FY23 Total Btu/GSF = 91,129		05-23 Thm 22.5%				
FY23 Electric \$/GSF = \$ 0.96		FY23 Thermal \$/GSF = \$ 1.44		FY23 Energy \$/GSF = \$ 2.40		05-23 kwh -11.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	413,011	54,540	33,939	88,479	0.0%	48.47	100.0%	100.0%	88,479	0.0%
FY06	413,011	47,428	36,537	83,964	-5.1%	50.11	102.4%	97.6%	84,198	-4.8%
FY07	413,011	37,743	37,680	75,423	-14.8%	48.88	100.7%	98.9%	75,271	-14.9%
FY08	413,011	34,956	36,872	71,827	-18.8%	47.87	96.0%	98.8%	69,982	-20.9%
FY09	413,011	28,626	37,821	66,446	-24.9%	47.26	92.6%	99.5%	64,118	-27.5%
FY10	413,011	36,433	39,180	75,612	-14.5%	49.10	101.6%	99.5%	76,010	-14.1%
FY11	413,011	36,722	38,916	75,638	-14.5%	48.17	96.5%	98.5%	73,768	-16.6%
FY12	413,011	52,506	40,523	93,029	5.1%	52.24	106.5%	96.0%	94,808	7.2%
FY13	413,011	56,572	38,516	95,088	7.5%	48.26	97.0%	99.3%	93,163	5.3%
FY14	413,011	66,797	38,107	104,904	18.6%	45.20	92.0%	99.8%	99,526	12.5%
FY15	413,011	59,565	35,461	95,026	7.4%	46.08	94.8%	101.9%	92,607	4.7%
FY16	413,011	51,612	36,569	88,182	-0.3%	50.51	108.2%	98.2%	91,767	3.7%
FY17	413,011	51,205	36,881	88,086	-0.4%	51.99	110.9%	94.8%	91,747	3.7%
FY18	413,011	63,295	36,975	100,270	13.3%	48.73	99.9%	98.6%	99,704	12.7%
FY19	413,011	63,493	34,727	98,220	11.0%	47.88	95.7%	98.4%	94,964	7.3%
FY20	413,011	61,168	34,941	96,109	8.6%	49.85	105.0%	98.0%	98,449	11.3%
FY21	413,011	58,361	32,166	90,528	2.3%	50.84	105.4%	94.9%	92,059	4.0%
FY22	413,011	60,222	31,624	91,846	3.8%	50.90	103.4%	93.4%	91,790	3.7%
FY23	413,011	60,444	30,685	91,129	3.0%	51.09	110.5%	97.5%	96,713	9.3%

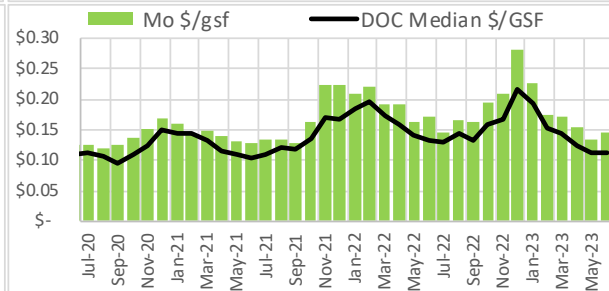
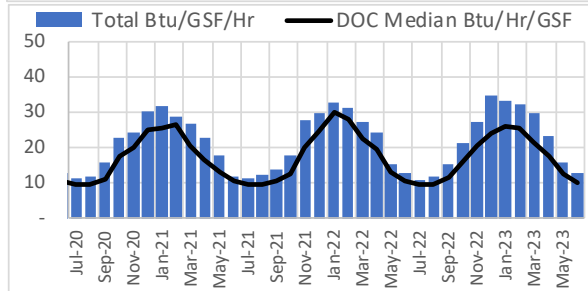
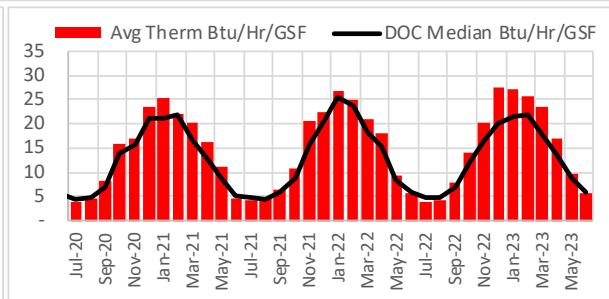
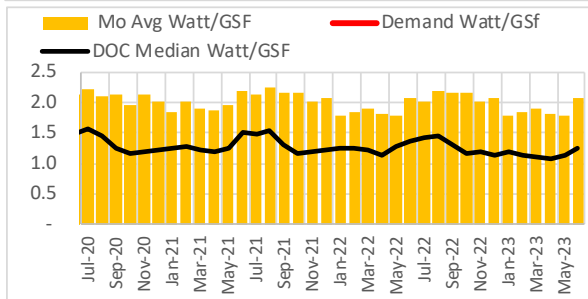
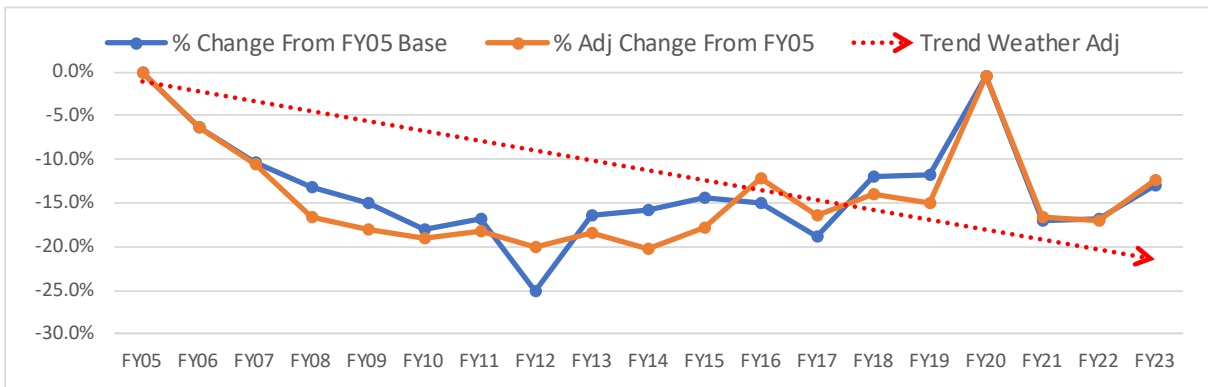
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-New Lisbon Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 17.34		FY23 Therm/GSF = 1.36		FY23 Total Btu/GSF = 195,075		05-23 Thm -11.9%				
FY23 Electric \$/GSF = \$ 1.31		FY23 Thermal \$/GSF = \$ 0.86		FY23 Energy \$/GSF = \$ 2.16		05-23 kwh -13.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	316,878	156,152	68,006	224,158	0.0%	46.84	100.0%	100.0%	224,158	0.0%
FY06	316,878	140,266	69,779	210,045	-6.3%	47.39	99.9%	100.0%	209,883	-6.4%
FY07	316,878	133,273	67,612	200,885	-10.4%	46.26	100.0%	99.7%	200,649	-10.5%
FY08	316,878	128,558	66,143	194,701	-13.1%	44.24	94.4%	99.2%	186,947	-16.6%
FY09	316,878	127,214	63,464	190,678	-14.9%	44.25	94.7%	99.7%	183,734	-18.0%
FY10	316,878	120,443	63,345	183,788	-18.0%	45.47	98.2%	99.7%	181,444	-19.1%
FY11	316,878	122,922	63,509	186,431	-16.8%	46.21	97.8%	99.3%	183,250	-18.2%
FY12	316,878	105,377	62,385	167,762	-25.2%	51.40	110.6%	100.3%	179,121	-20.1%
FY13	316,878	125,151	62,072	187,223	-16.5%	46.61	96.8%	99.5%	182,947	-18.4%
FY14	316,878	126,244	62,653	188,897	-15.7%	43.20	92.5%	99.1%	178,846	-20.2%
FY15	316,878	127,977	63,964	191,941	-14.4%	44.37	94.0%	99.8%	184,150	-17.8%
FY16	316,878	125,872	64,693	190,565	-15.0%	48.82	105.0%	100.0%	196,889	-12.2%
FY17	316,878	119,139	63,022	182,161	-18.7%	49.01	104.5%	99.7%	187,366	-16.4%
FY18	316,878	135,289	62,191	197,480	-11.9%	45.93	96.8%	99.5%	192,907	-13.9%
FY19	316,878	136,679	60,977	197,656	-11.8%	44.97	94.7%	99.9%	190,350	-15.1%
FY20	316,878	162,100	60,860	222,960	-0.5%	47.56	100.4%	99.5%	223,285	-0.4%
FY21	316,878	125,504	60,588	186,092	-17.0%	47.24	100.8%	99.5%	186,857	-16.6%
FY22	316,878	126,960	59,674	186,635	-16.7%	46.88	99.7%	99.8%	186,162	-17.0%
FY23	316,878	135,882	59,193	195,075	-13.0%	47.70	101.2%	99.8%	196,616	-12.3%

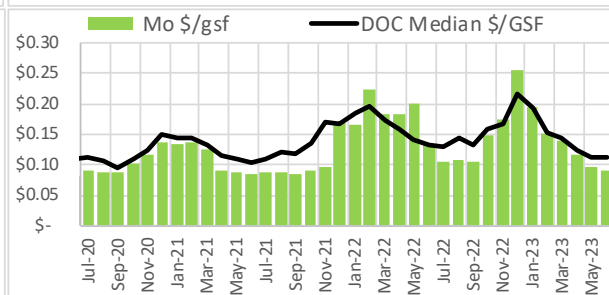
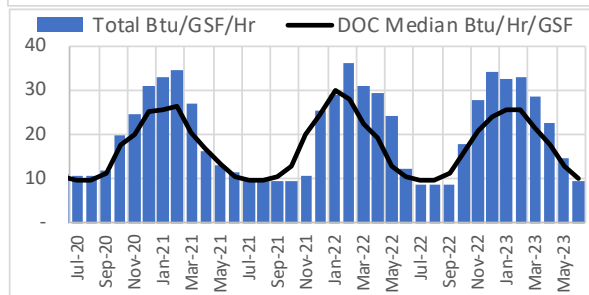
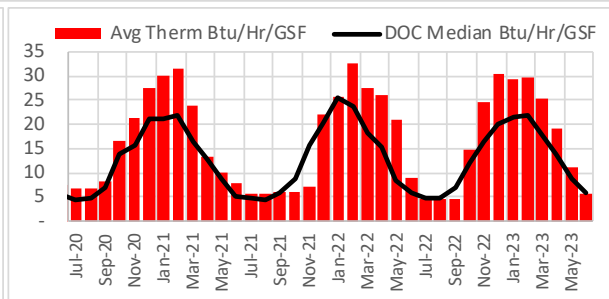
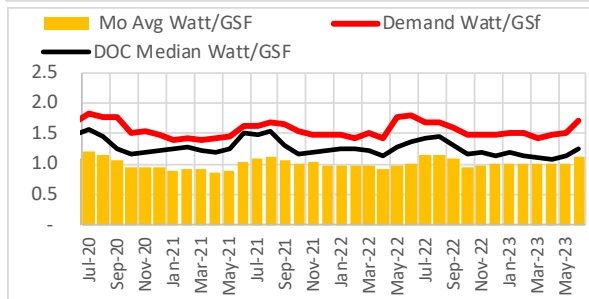
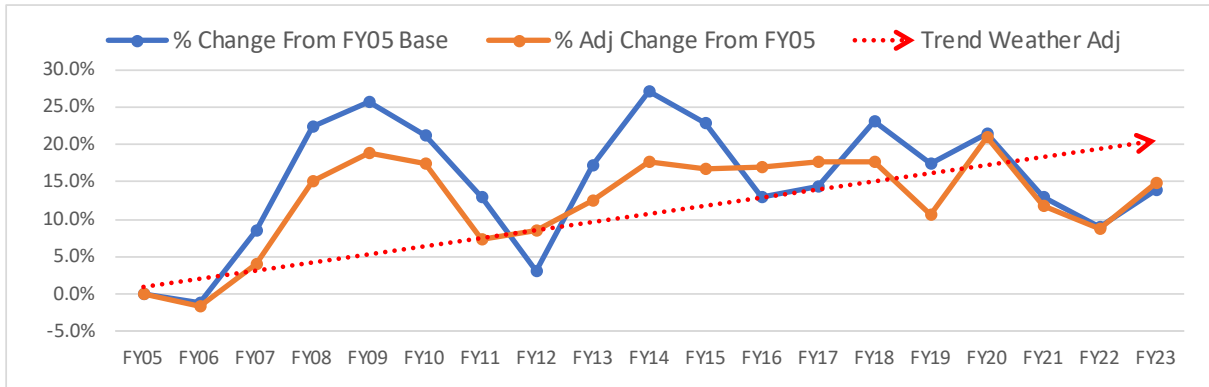
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Oakhill Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.14		FY23 Therm/GSF = 1.48		FY23 Total Btu/GSF = 179,409		05-23 Thm 21.0%				
FY23 Electric \$/GSF = \$ 0.80		FY23 Thermal \$/GSF = \$ 0.88		FY23 Energy \$/GSF = \$ 1.68		05-23 kwh -7.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	319,630	123,588	33,738	157,326	0.0%	48.12	100.0%	100.0%	157,326	0.0%
FY06	331,380	120,605	34,859	155,465	-1.2%	48.65	99.3%	99.9%	154,604	-1.7%
FY07	331,380	134,930	35,774	170,704	8.5%	47.46	94.8%	99.7%	163,524	3.9%
FY08	331,380	155,265	37,158	192,423	22.3%	46.19	93.0%	98.7%	181,048	15.1%
FY09	331,380	161,178	36,568	197,746	25.7%	45.66	93.6%	99.2%	187,071	18.9%
FY10	331,380	153,778	37,041	190,818	21.3%	47.10	96.1%	100.0%	184,890	17.5%
FY11	348,153	141,509	36,421	177,929	13.1%	46.81	93.8%	99.0%	168,733	7.3%
FY12	348,153	125,267	37,091	162,358	3.2%	51.51	106.7%	99.8%	170,682	8.5%
FY13	348,153	147,566	36,939	184,506	17.3%	47.29	95.0%	99.4%	176,943	12.5%
FY14	348,153	162,932	36,966	199,897	27.1%	44.58	91.0%	99.3%	185,031	17.6%
FY15	348,153	156,462	36,728	193,190	22.8%	45.84	94.0%	99.9%	183,817	16.8%
FY16	348,153	146,394	31,336	177,730	13.0%	49.68	104.4%	99.6%	184,039	17.0%
FY17	348,153	148,831	31,087	179,918	14.4%	49.72	103.8%	99.3%	185,328	17.8%
FY18	348,153	162,045	31,507	193,551	23.0%	46.66	94.9%	99.8%	185,164	17.7%
FY19	348,153	153,600	31,028	184,628	17.4%	45.88	93.2%	99.9%	174,188	10.7%
FY20	348,153	160,398	30,854	191,252	21.6%	48.07	99.4%	99.8%	190,238	20.9%
FY21	348,153	148,358	29,283	177,641	12.9%	47.61	99.1%	99.2%	176,009	11.9%
FY22	348,153	141,199	30,230	171,430	9.0%	48.04	99.8%	99.5%	171,034	8.7%
FY23	348,153	148,222	31,187	179,409	14.0%	48.64	100.9%	99.9%	180,732	14.9%

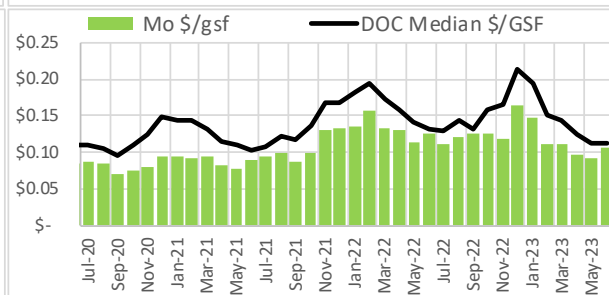
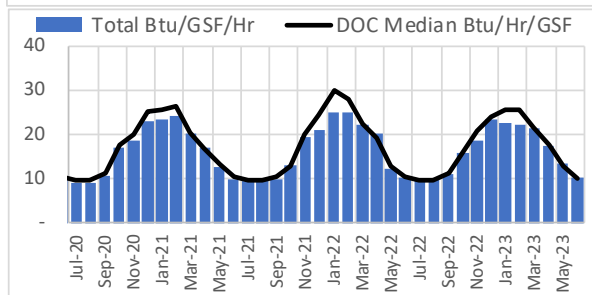
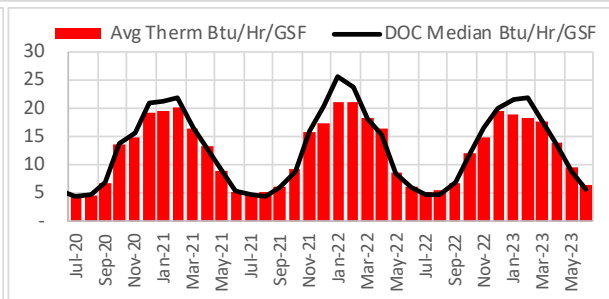
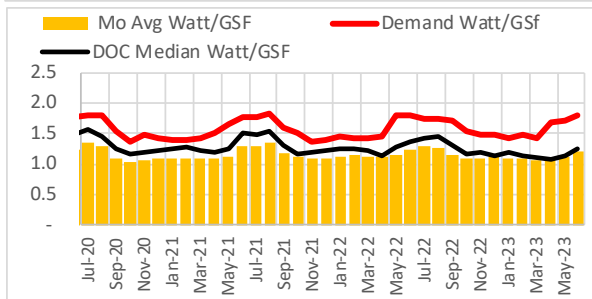
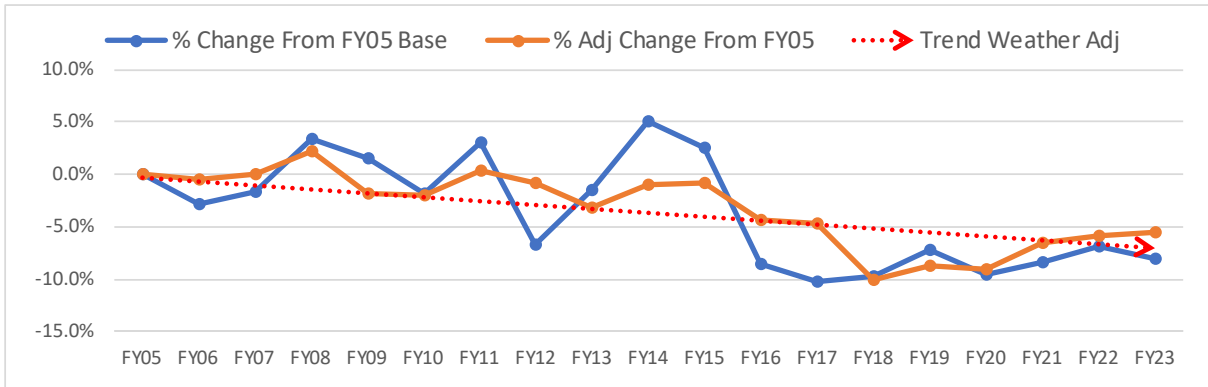
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Oshkosh Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.96		FY23 Therm/GSF = 1.08		FY23 Total Btu/GSF = 142,054		05-23 Thm -0.3%				
FY23 Electric \$/GSF = \$ 0.82		FY23 Thermal \$/GSF = \$ 0.62		FY23 Energy \$/GSF = \$ 1.44		05-23 kwh -19.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	890,187	112,252	42,105	154,357	0.0%	45.92	100.0%	100.0%	154,357	0.0%
FY06	890,187	107,877	41,991	149,868	-2.9%	47.27	103.6%	99.9%	153,656	-0.5%
FY07	890,187	109,030	42,903	151,932	-1.6%	46.64	102.2%	100.1%	154,335	0.0%
FY08	890,187	116,494	43,110	159,605	3.4%	45.02	98.7%	99.3%	157,796	2.2%
FY09	890,187	114,436	42,311	156,747	1.5%	43.47	95.7%	99.3%	151,557	-1.8%
FY10	890,187	110,648	41,021	151,669	-1.7%	45.99	99.6%	100.3%	151,364	-1.9%
FY11	890,187	117,976	41,112	159,088	3.1%	44.59	96.7%	99.3%	154,947	0.4%
FY12	890,187	103,233	40,770	144,003	-6.7%	49.86	108.5%	100.5%	153,015	-0.9%
FY13	890,187	111,171	40,913	152,084	-1.5%	45.29	97.7%	99.8%	149,400	-3.2%
FY14	890,187	122,831	39,403	162,234	5.1%	41.95	92.7%	98.9%	152,829	-1.0%
FY15	890,187	121,847	36,384	158,231	2.5%	43.98	95.8%	100.0%	153,134	-0.8%
FY16	890,187	104,828	36,382	141,210	-8.5%	48.11	106.2%	100.2%	147,738	-4.3%
FY17	890,187	102,475	36,190	138,665	-10.2%	48.65	108.4%	99.4%	147,023	-4.8%
FY18	890,187	104,169	35,212	139,381	-9.7%	45.77	99.8%	99.1%	138,827	-10.1%
FY19	890,187	108,513	34,830	143,343	-7.1%	44.89	97.8%	99.8%	140,888	-8.7%
FY20	890,187	104,203	35,347	139,550	-9.6%	46.41	100.7%	100.0%	140,312	-9.1%
FY21	890,187	107,148	34,352	141,500	-8.3%	47.28	102.8%	99.2%	144,188	-6.6%
FY22	890,187	108,782	35,054	143,836	-6.8%	46.75	101.8%	99.0%	145,408	-5.8%
FY23	890,187	108,071	33,984	142,054	-8.0%	47.58	103.6%	99.9%	145,867	-5.5%

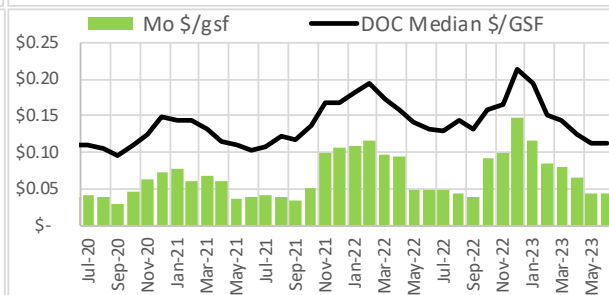
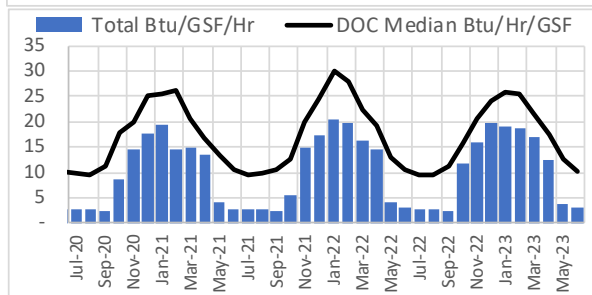
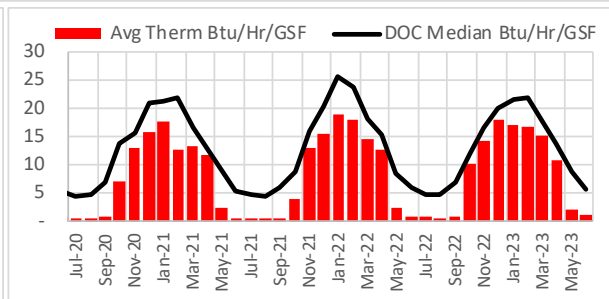
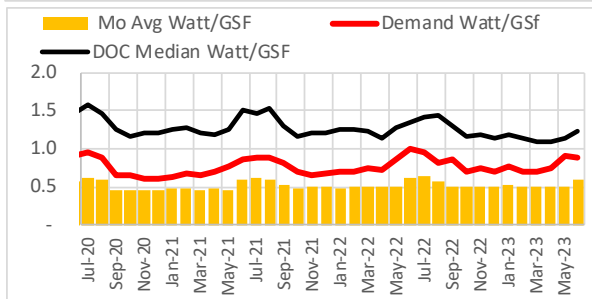
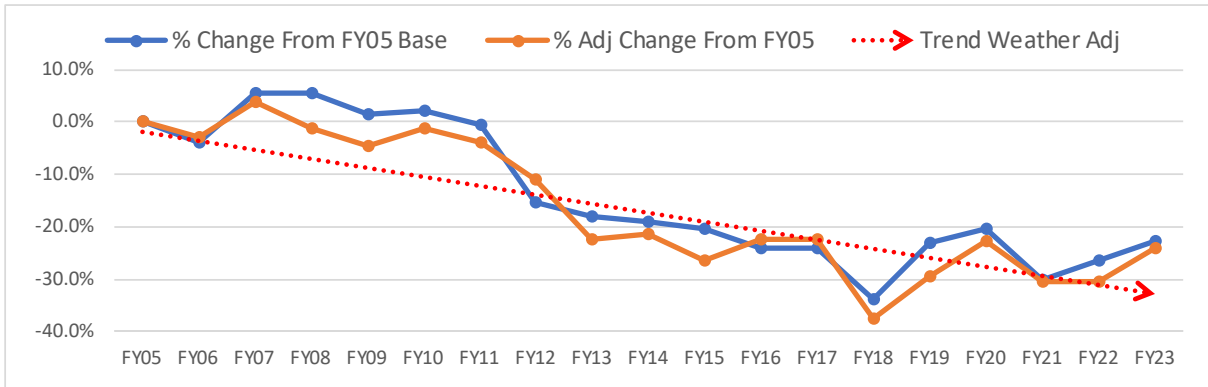
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Prairie du Chien Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.68		FY23 Therm/GSF = 0.78		FY23 Total Btu/GSF = 94,145		05-23 Thm -27.1%				
FY23 Electric \$/GSF = \$ 0.42		FY23 Thermal \$/GSF = \$ 0.49		FY23 Energy \$/GSF = \$ 0.91		05-23 kwh -4.2%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	383,100	105,090	16,589	121,679	0.0%	46.84	100.0%	100.0%	121,679	0.0%
FY06	383,100	99,802	17,172	116,974	-3.9%	47.39	101.2%	99.8%	118,160	-2.9%
FY07	383,100	109,906	18,685	128,591	5.7%	46.26	98.2%	99.5%	126,493	4.0%
FY08	383,100	109,408	19,144	128,552	5.6%	44.24	92.4%	98.8%	120,044	-1.3%
FY09	383,100	105,144	18,166	123,310	1.3%	44.25	93.2%	99.2%	116,022	-4.6%
FY10	383,100	105,909	18,289	124,199	2.1%	45.47	96.2%	99.7%	120,173	-1.2%
FY11	383,100	103,314	17,669	120,983	-0.6%	46.21	96.4%	98.9%	117,031	-3.8%
FY12	383,100	85,752	17,167	102,918	-15.4%	51.40	106.2%	100.9%	108,372	-10.9%
FY13	383,100	84,135	15,515	99,650	-18.1%	46.61	94.3%	98.5%	94,624	-22.2%
FY14	383,100	82,630	15,751	98,382	-19.1%	43.20	97.0%	98.3%	95,651	-21.4%
FY15	383,100	80,992	15,843	96,835	-20.4%	44.37	91.2%	99.9%	89,672	-26.3%
FY16	383,100	76,598	15,848	92,446	-24.0%	48.82	102.8%	99.6%	94,499	-22.3%
FY17	383,100	76,598	15,619	92,217	-24.2%	49.01	103.3%	99.2%	94,603	-22.3%
FY18	383,100	64,820	15,775	80,595	-33.8%	45.93	93.5%	99.1%	76,209	-37.4%
FY19	383,100	77,751	15,870	93,621	-23.1%	44.97	90.0%	99.4%	85,783	-29.5%
FY20	383,100	81,182	15,713	96,896	-20.4%	47.56	96.6%	99.0%	94,006	-22.7%
FY21	383,100	70,072	15,041	85,113	-30.1%	47.24	99.6%	98.6%	84,641	-30.4%
FY22	383,100	73,600	15,772	89,371	-26.6%	46.88	93.9%	98.8%	84,707	-30.4%
FY23	383,100	78,171	15,974	94,145	-22.6%	47.70	98.0%	99.5%	92,517	-24.0%

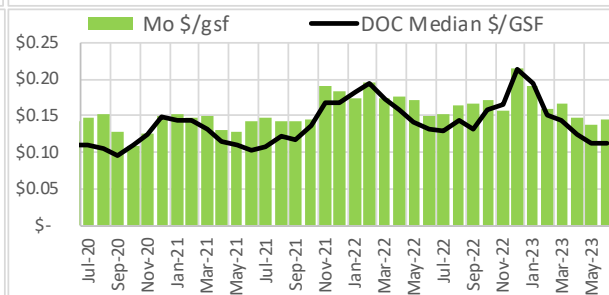
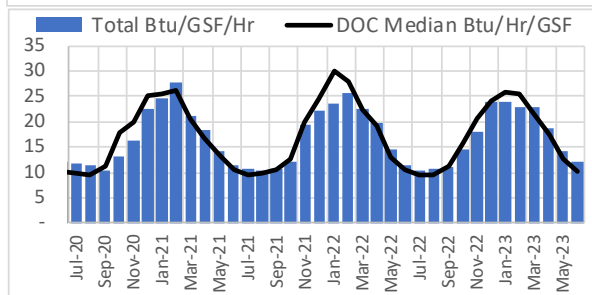
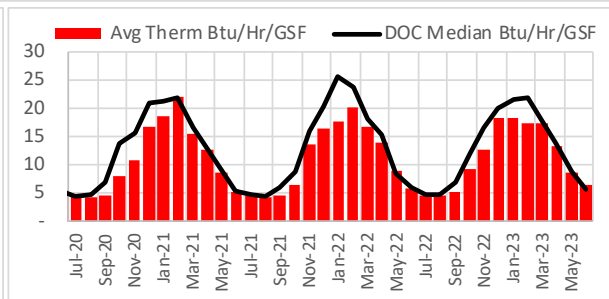
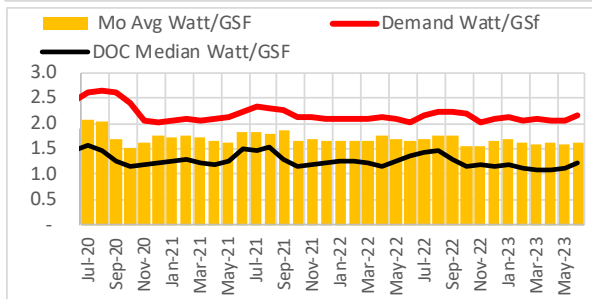
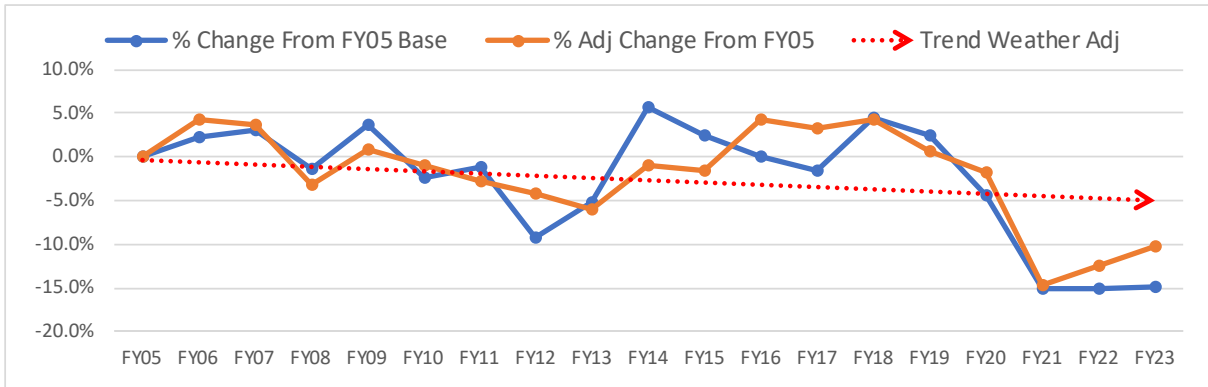
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Racine Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 14.41		FY23 Therm/GSF = 0.99		FY23 Total Btu/GSF = 148,289		05-23 Thm 0.1%				
FY23 Electric \$/GSF = \$ 1.41		FY23 Thermal \$/GSF = \$ 0.57		FY23 Energy \$/GSF = \$ 1.97		05-23 kwh -26.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	409,046	106,944	67,085	174,029	0.0%	48.47	100.0%	100.0%	174,029	0.0%
FY06	409,046	109,439	68,714	178,153	2.4%	50.11	103.5%	99.5%	181,597	4.3%
FY07	409,046	110,566	68,676	179,242	3.0%	48.88	101.3%	99.8%	180,507	3.7%
FY08	409,046	103,329	68,480	171,809	-1.3%	47.87	97.5%	98.9%	168,475	-3.2%
FY09	409,046	112,264	68,076	180,340	3.6%	47.26	96.0%	99.3%	175,380	0.8%
FY10	409,046	105,822	64,164	169,986	-2.3%	49.10	102.2%	100.1%	172,361	-1.0%
FY11	409,046	110,909	61,212	172,121	-1.1%	48.17	97.9%	98.9%	169,052	-2.9%
FY12	409,046	97,050	60,909	157,959	-9.2%	52.24	108.9%	100.1%	166,652	-4.2%
FY13	409,046	104,257	60,837	165,093	-5.1%	48.26	98.8%	99.5%	163,552	-6.0%
FY14	409,046	120,628	63,458	184,086	5.8%	45.20	91.0%	98.9%	172,540	-0.9%
FY15	409,046	112,663	65,659	178,322	2.5%	46.08	94.0%	99.7%	171,353	-1.5%
FY16	409,046	110,993	63,280	174,273	0.1%	50.51	106.6%	100.1%	181,608	4.4%
FY17	409,046	110,893	60,375	171,268	-1.6%	51.99	108.0%	99.5%	179,784	3.3%
FY18	409,046	122,445	59,228	181,673	4.4%	48.73	100.2%	99.2%	181,414	4.2%
FY19	409,046	121,162	57,006	178,169	2.4%	47.88	97.9%	99.3%	175,215	0.7%
FY20	409,046	109,995	56,544	166,539	-4.3%	49.85	104.1%	99.9%	171,018	-1.7%
FY21	409,046	95,314	52,437	147,751	-15.1%	47.24	101.3%	98.9%	148,361	-14.7%
FY22	409,046	96,432	51,451	147,883	-15.0%	50.90	105.0%	99.5%	152,462	-12.4%
FY23	409,046	99,094	49,194	148,289	-14.8%	51.09	108.0%	100.3%	156,349	-10.2%

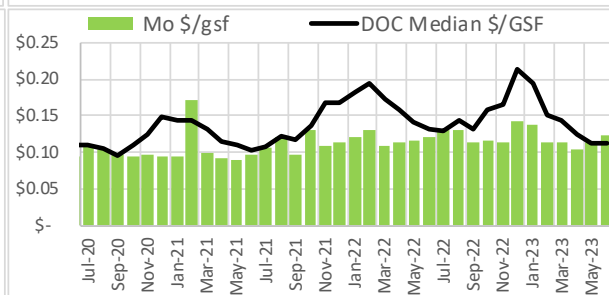
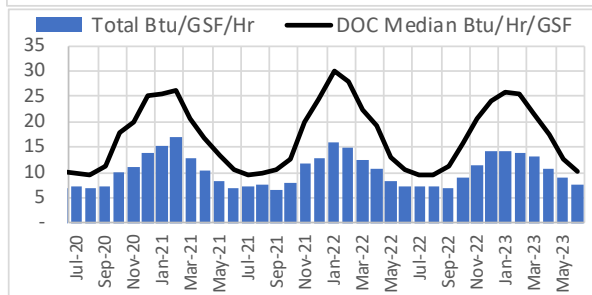
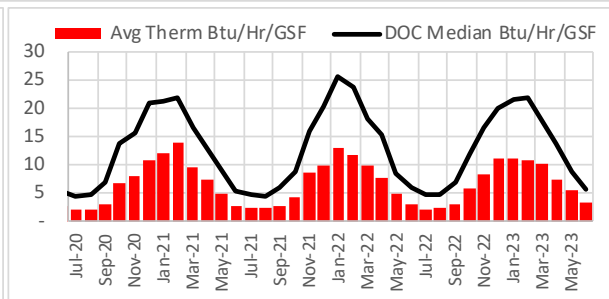
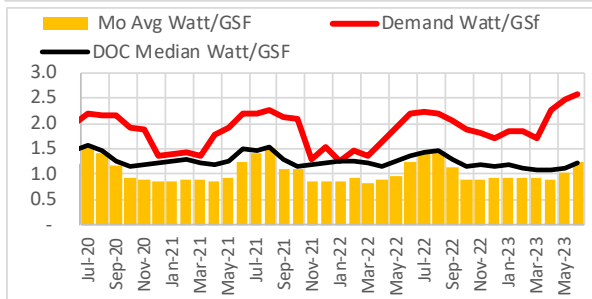
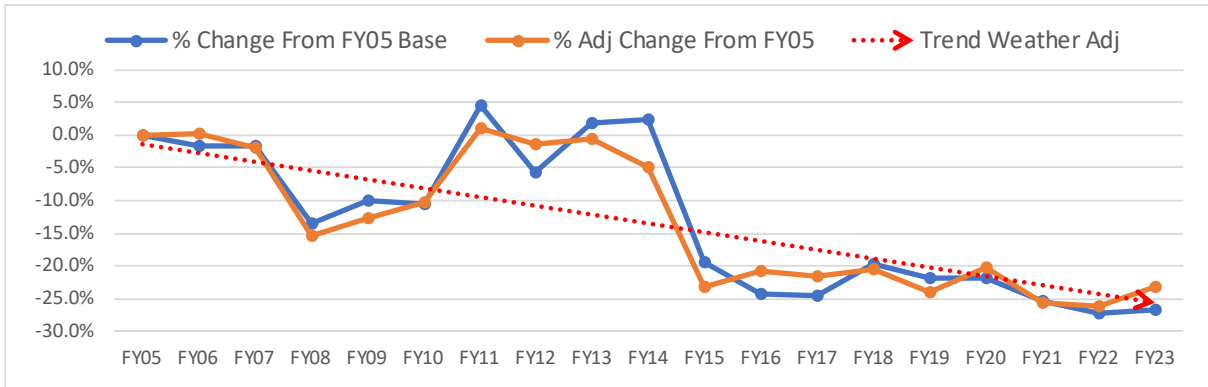
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Racine Youth Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.27		FY23 Therm/GSF = 0.59		FY23 Total Btu/GSF = 90,531		05-23 Thm -25.7%				
FY23 Electric \$/GSF = \$ 1.09		FY23 Thermal \$/GSF = \$ 0.37		FY23 Energy \$/GSF = \$ 1.45		05-23 kwh -17.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	207,697	85,046	38,193	123,239	0.0%	48.47	100.0%	100.0%	123,239	0.0%
FY06	207,697	80,443	40,758	121,201	-1.7%	50.11	104.1%	97.9%	123,617	0.3%
FY07	207,697	80,478	40,715	121,193	-1.7%	48.88	100.4%	98.9%	121,038	-1.8%
FY08	207,697	66,072	40,406	106,478	-13.6%	47.87	97.7%	98.5%	104,381	-15.3%
FY09	207,697	72,363	38,660	111,023	-9.9%	47.26	95.9%	99.1%	107,667	-12.6%
FY10	207,697	72,763	37,540	110,303	-10.5%	49.10	100.6%	99.7%	110,592	-10.3%
FY11	207,697	89,156	39,752	128,908	4.6%	48.17	96.3%	97.6%	124,637	1.1%
FY12	207,697	75,118	41,040	116,158	-5.7%	52.24	108.6%	97.6%	121,592	-1.3%
FY13	207,697	84,271	41,215	125,486	1.8%	48.26	97.1%	98.6%	122,418	-0.7%
FY14	207,697	89,930	36,137	126,067	2.3%	45.20	91.2%	97.8%	117,376	-4.8%
FY15	207,697	67,337	31,975	99,311	-19.4%	46.08	92.6%	101.0%	94,610	-23.2%
FY16	207,697	60,510	33,002	93,512	-24.1%	50.51	107.1%	99.1%	97,548	-20.8%
FY17	207,697	59,188	33,743	92,931	-24.6%	51.99	109.4%	94.9%	96,807	-21.4%
FY18	207,697	64,910	33,930	98,840	-19.8%	48.73	100.0%	98.0%	98,152	-20.4%
FY19	207,697	63,557	32,665	96,223	-21.9%	47.88	96.7%	98.4%	93,597	-24.1%
FY20	207,697	63,613	32,750	96,364	-21.8%	49.85	103.8%	98.9%	98,398	-20.2%
FY21	207,697	60,718	31,255	91,973	-25.4%	47.24	100.6%	97.8%	91,667	-25.6%
FY22	207,697	58,129	31,439	89,568	-27.3%	50.90	105.3%	95.4%	91,182	-26.0%
FY23	207,697	58,880	31,651	90,531	-26.5%	51.09	107.4%	99.5%	94,707	-23.2%

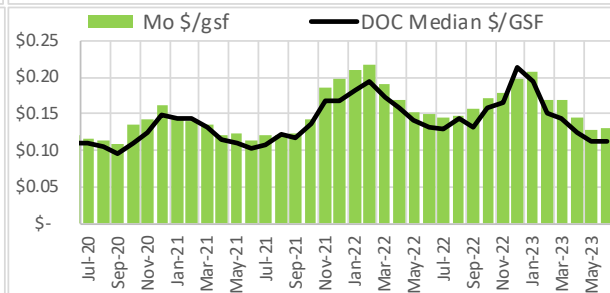
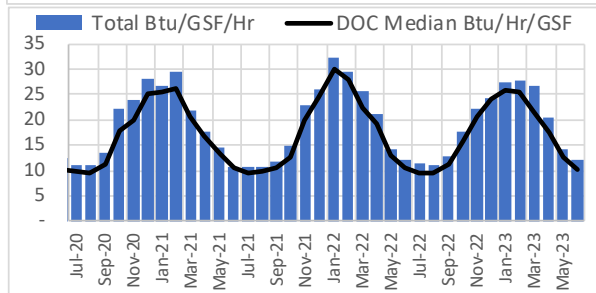
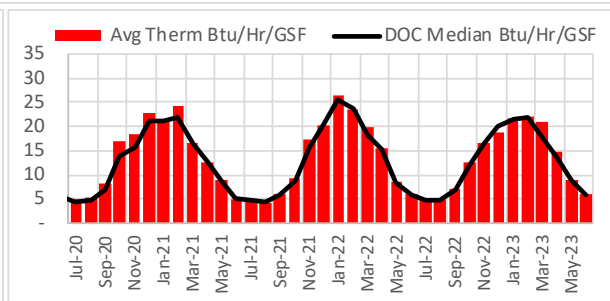
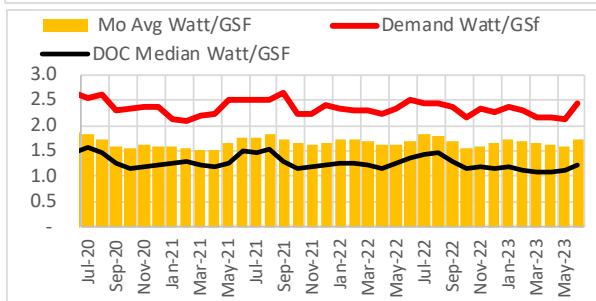
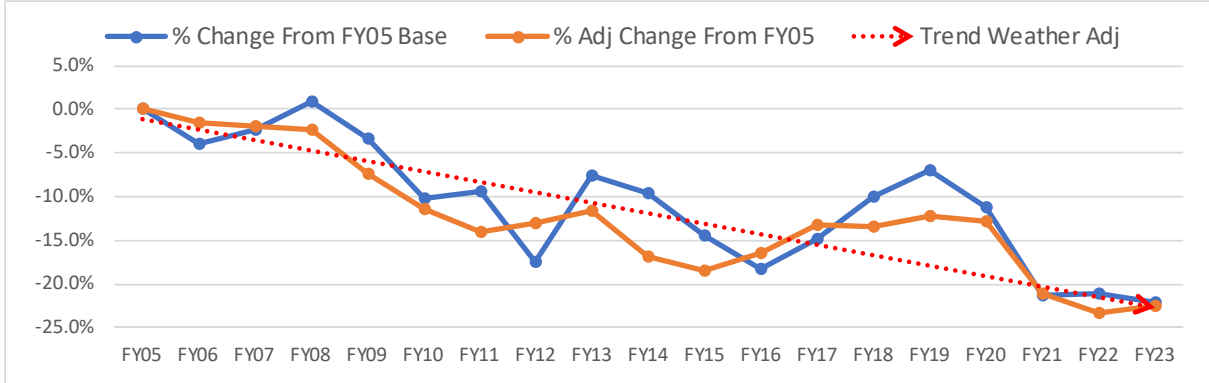
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Redgranite Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 14.66		FY23 Therm/GSF = 1.16		FY23 Total Btu/GSF = 166,304		05-23 Thm -24.2%				
FY23 Electric \$/GSF = \$ 1.24		FY23 Thermal \$/GSF = \$ 0.71		FY23 Energy \$/GSF = \$ 1.95		05-23 kwh -18.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	310,135	152,068	61,358	213,425	0.0%	46.04	100.0%	100.0%	213,425	0.0%
FY06	310,135	143,563	61,625	205,188	-3.9%	47.49	103.4%	100.1%	210,196	-1.5%
FY07	310,135	147,920	60,417	208,337	-2.4%	46.81	100.6%	99.9%	209,232	-2.0%
FY08	310,135	154,523	60,863	215,386	0.9%	44.51	95.9%	99.3%	208,577	-2.3%
FY09	310,135	145,411	60,714	206,125	-3.4%	43.51	94.4%	99.5%	197,700	-7.4%
FY10	310,135	131,445	60,011	191,456	-10.3%	45.49	98.3%	99.6%	189,054	-11.4%
FY11	310,135	134,920	58,674	193,594	-9.3%	43.59	93.3%	98.4%	183,535	-14.0%
FY12	310,135	118,110	57,891	176,001	-17.5%	49.50	107.6%	100.8%	185,470	-13.1%
FY13	310,135	139,269	57,954	197,223	-7.6%	44.37	94.0%	99.5%	188,653	-11.6%
FY14	310,135	137,482	55,539	193,021	-9.6%	41.62	89.0%	99.0%	177,362	-16.9%
FY15	310,135	130,751	52,033	182,785	-14.4%	43.36	93.4%	99.8%	174,011	-18.5%
FY16	310,135	122,094	52,436	174,531	-18.2%	47.34	103.0%	100.2%	178,272	-16.5%
FY17	310,135	129,607	52,162	181,769	-14.8%	47.13	102.6%	100.2%	185,307	-13.2%
FY18	310,135	141,065	51,135	192,200	-9.9%	44.30	94.8%	99.7%	184,698	-13.5%
FY19	310,135	149,176	49,508	198,684	-6.9%	43.35	92.5%	99.8%	187,375	-12.2%
FY20	310,135	139,991	49,462	189,454	-11.2%	45.35	97.4%	100.1%	185,898	-12.9%
FY21	310,135	119,645	48,517	168,162	-21.2%	47.24	100.6%	99.4%	168,610	-21.0%
FY22	310,135	117,894	50,665	168,559	-21.0%	44.68	95.9%	99.6%	163,517	-23.4%
FY23	310,135	116,258	50,046	166,304	-22.1%	45.80	99.1%	100.4%	165,497	-22.5%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*

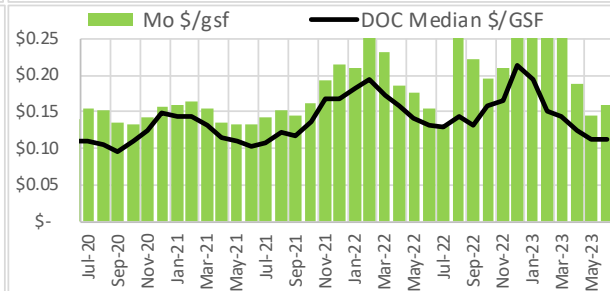
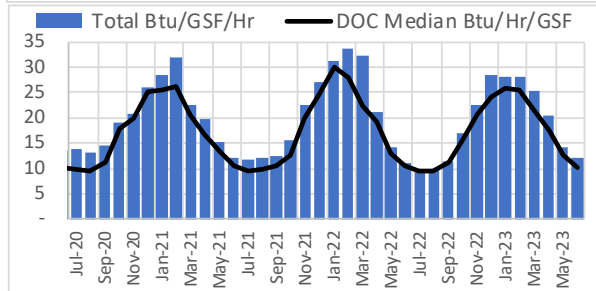
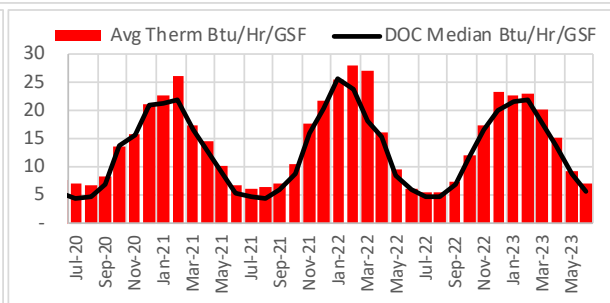
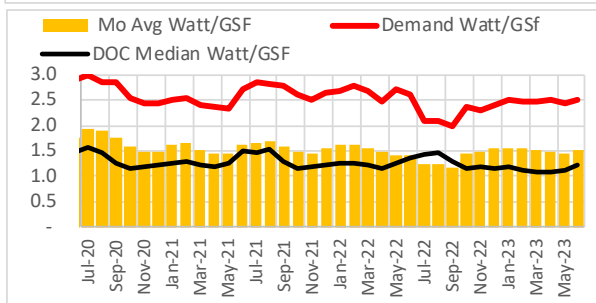
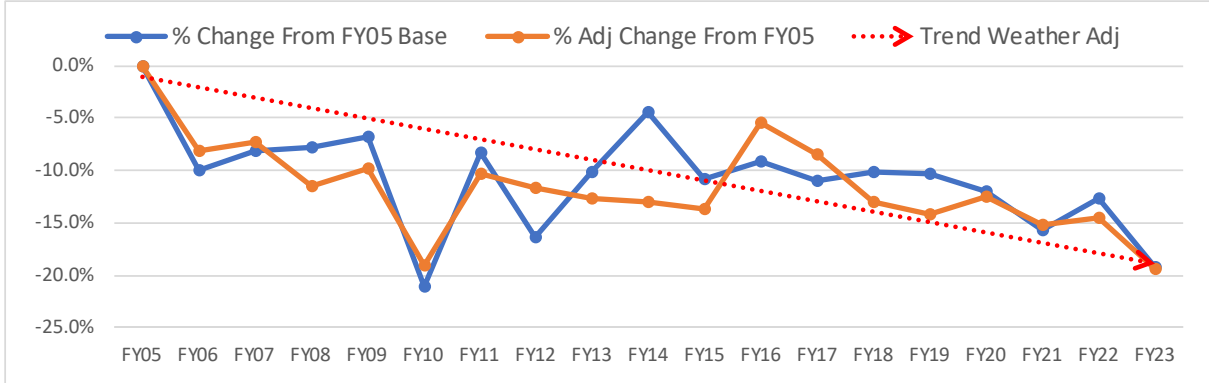




### DOC-Stanley Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 12.53		FY23 Therm/GSF = 1.23		FY23 Total Btu/GSF = 165,370		05-23 Thm -10.2%				
FY23 Electric \$/GSF = \$ 1.34		FY23 Thermal \$/GSF = \$ 1.27		FY23 Energy \$/GSF = \$ 2.61		05-23 kwh -37.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	411,897	136,226	68,314	204,540	0.0%	44.26	100.0%	100.0%	204,540	0.0%
FY06	411,897	118,035	66,203	184,238	-9.9%	45.56	103.2%	99.9%	187,974	-8.1%
FY07	411,897	130,405	57,584	187,989	-8.1%	44.50	101.3%	100.1%	189,759	-7.2%
FY08	411,897	133,092	55,500	188,592	-7.8%	42.10	94.7%	98.8%	180,924	-11.5%
FY09	411,897	135,351	55,173	190,524	-6.9%	42.50	96.1%	98.5%	184,402	-9.8%
FY10	411,897	109,698	51,820	161,518	-21.0%	45.38	103.1%	101.2%	165,565	-19.1%
FY11	411,897	134,274	53,285	187,559	-8.3%	43.50	97.1%	99.6%	183,466	-10.3%
FY12	411,897	118,819	52,235	171,054	-16.4%	47.63	107.9%	100.8%	180,841	-11.6%
FY13	411,897	133,715	49,943	183,658	-10.2%	42.87	96.4%	99.7%	178,757	-12.6%
FY14	411,897	145,049	50,450	195,499	-4.4%	39.97	88.5%	98.4%	178,010	-13.0%
FY15	411,897	131,797	50,775	182,572	-10.7%	42.20	95.7%	99.6%	176,741	-13.6%
FY16	411,897	133,706	52,090	185,796	-9.2%	46.23	105.5%	100.4%	193,339	-5.5%
FY17	411,897	129,747	52,209	181,956	-11.0%	45.86	104.1%	100.1%	187,261	-8.4%
FY18	411,897	131,768	52,067	183,835	-10.1%	42.67	95.7%	99.3%	177,861	-13.0%
FY19	411,897	131,397	52,076	183,473	-10.3%	41.78	94.2%	99.6%	175,667	-14.1%
FY20	411,897	128,654	51,451	180,105	-11.9%	43.78	99.2%	100.1%	179,088	-12.4%
FY21	411,897	124,215	48,380	172,595	-15.6%	47.24	101.2%	98.8%	173,535	-15.2%
FY22	411,897	132,400	46,247	178,647	-12.7%	43.09	97.5%	99.2%	174,953	-14.5%
FY23	411,897	122,602	42,767	165,370	-19.2%	44.12	99.7%	99.9%	164,997	-19.3%

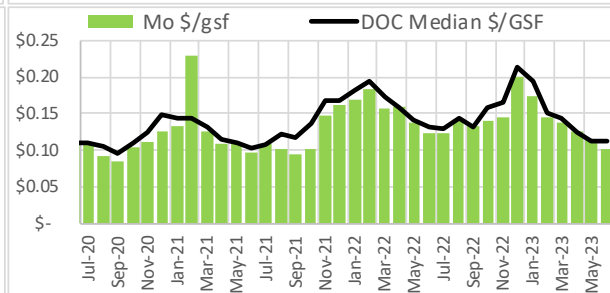
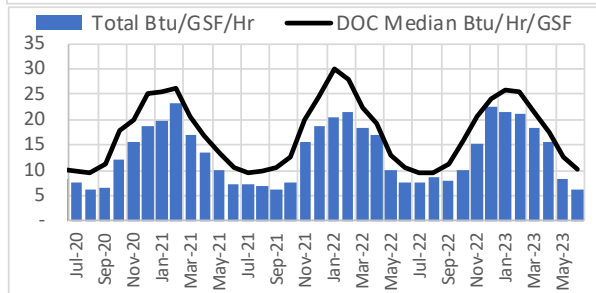
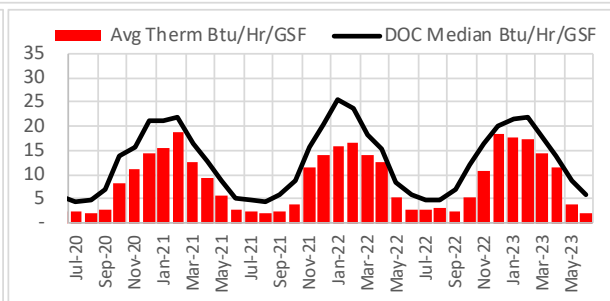
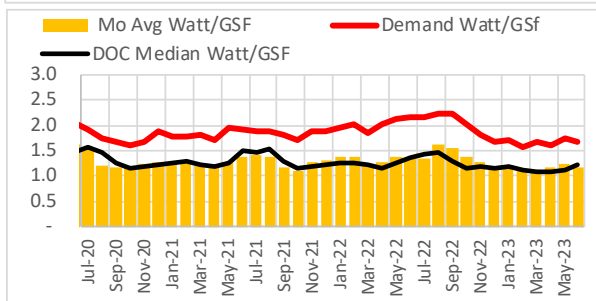
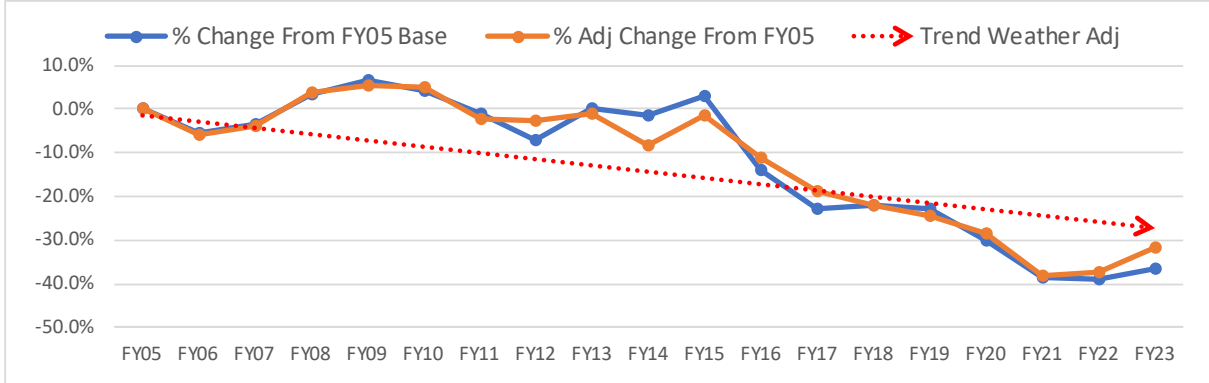
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOC-Sturtevant Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 11.15		FY23 Therm/GSF = 0.80		FY23 Total Btu/GSF = 118,072		05-23 Thm -31.9%				
FY23 Electric \$/GSF = \$ 1.18		FY23 Thermal \$/GSF = \$ 0.51		FY23 Energy \$/GSF = \$ 1.69		05-23 kwh -31.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	93,312	131,324	54,613	185,937	0.0%	48.47	100.0%	100.0%	185,937	0.0%
FY06	93,312	122,768	52,729	175,497	-5.6%	50.11	99.9%	99.1%	174,913	-5.9%
FY07	93,312	124,053	55,178	179,231	-3.6%	48.88	99.9%	99.6%	178,908	-3.8%
FY08	93,312	134,062	58,563	192,625	3.6%	47.87	100.4%	99.5%	192,949	3.8%
FY09	93,312	138,779	59,728	198,507	6.8%	47.26	98.5%	99.7%	196,268	5.6%
FY10	93,312	136,318	57,564	193,882	4.3%	49.10	101.1%	99.8%	195,301	5.0%
FY11	93,312	125,983	58,048	184,031	-1.0%	48.17	98.7%	99.0%	181,733	-2.3%
FY12	93,312	115,209	57,756	172,965	-7.0%	52.24	107.4%	99.0%	180,921	-2.7%
FY13	93,312	127,853	58,103	185,956	0.0%	48.26	98.8%	99.7%	184,265	-0.9%
FY14	93,312	126,438	56,699	183,137	-1.5%	45.20	90.1%	99.2%	170,185	-8.5%
FY15	93,312	134,765	56,870	191,635	3.1%	46.08	93.7%	100.7%	183,570	-1.3%
FY16	93,312	106,682	53,103	159,785	-14.1%	50.51	105.5%	99.2%	165,226	-11.1%
FY17	93,312	96,279	47,583	143,862	-22.6%	51.99	108.7%	98.1%	151,321	-18.6%
FY18	93,312	100,043	45,077	145,120	-22.0%	48.73	100.5%	99.0%	145,149	-21.9%
FY19	93,312	97,753	45,924	143,676	-22.7%	47.88	97.0%	100.0%	140,673	-24.3%
FY20	93,312	83,075	46,686	129,761	-30.2%	49.85	104.0%	99.7%	132,966	-28.5%
FY21	93,312	76,482	38,070	114,553	-38.4%	47.24	100.6%	99.3%	114,762	-38.3%
FY22	93,312	74,876	38,975	113,851	-38.8%	50.90	104.1%	99.1%	116,598	-37.3%
FY23	93,312	80,011	38,061	118,072	-36.5%	51.09	111.8%	98.6%	126,938	-31.7%

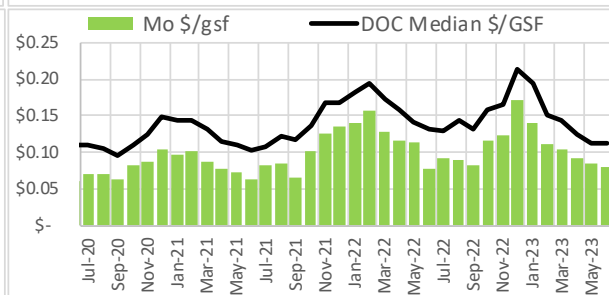
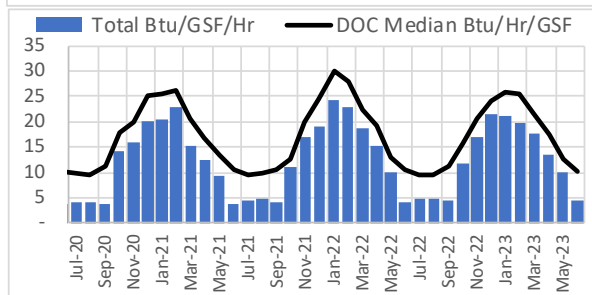
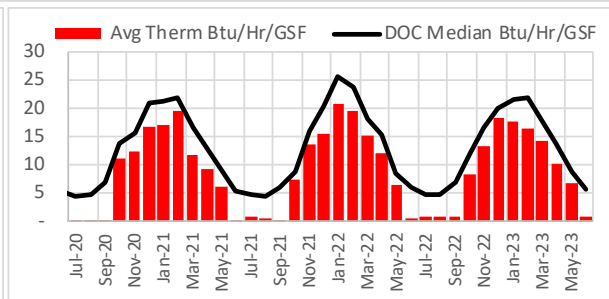
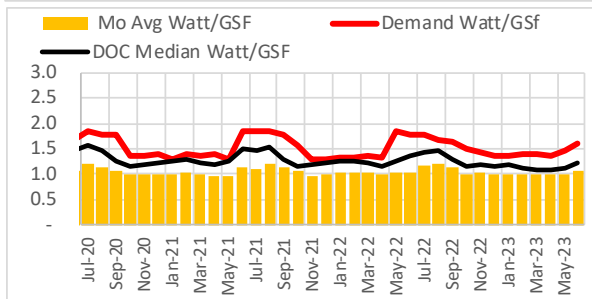
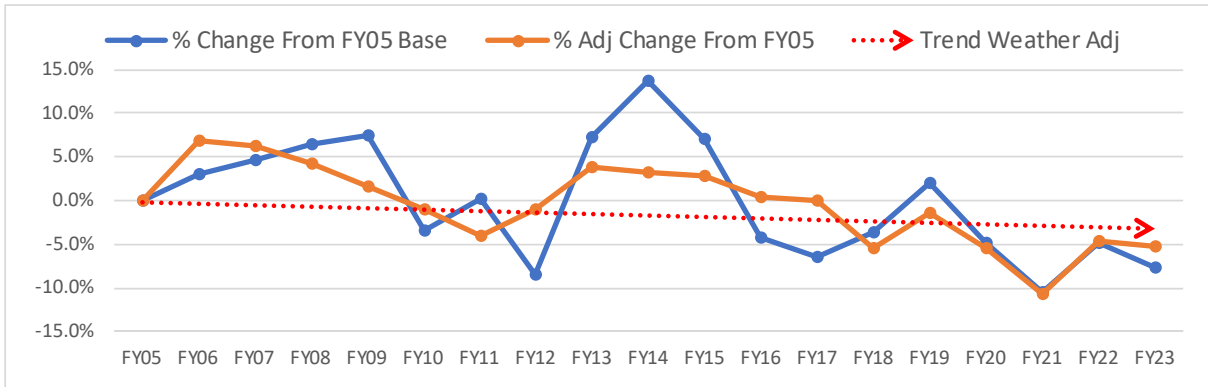
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Taycheedah Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.18		FY23 Therm/GSF = 0.78		FY23 Total Btu/GSF = 109,717		05-23 Thm -0.6%				
FY23 Electric \$/GSF = \$ 0.79		FY23 Thermal \$/GSF = \$ 0.50		FY23 Energy \$/GSF = \$ 1.29		05-23 kwh -15.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	380,940	81,875	37,036	118,910	0.0%	45.92	100.0%	100.0%	118,910	0.0%
FY06	380,940	84,843	37,608	122,451	3.0%	47.27	105.3%	100.1%	126,965	6.8%
FY07	380,940	87,325	37,003	124,328	4.6%	46.64	102.3%	100.3%	126,446	6.3%
FY08	380,940	88,875	37,777	126,653	6.5%	45.02	97.2%	99.5%	123,940	4.2%
FY09	380,940	89,681	38,027	127,708	7.4%	43.47	92.5%	99.8%	120,885	1.7%
FY10	380,940	77,349	37,471	114,820	-3.4%	45.99	103.9%	99.4%	117,606	-1.1%
FY11	380,940	81,955	37,156	119,112	0.2%	44.59	94.4%	99.3%	114,220	-3.9%
FY12	380,940	70,353	38,382	108,735	-8.6%	49.86	112.4%	100.5%	117,671	-1.0%
FY13	380,940	89,724	37,780	127,504	7.2%	45.29	95.5%	99.8%	123,360	3.7%
FY14	380,940	97,793	37,471	135,264	13.8%	41.95	87.3%	99.5%	122,710	3.2%
FY15	380,940	90,851	36,461	127,313	7.1%	43.98	94.5%	99.9%	122,291	2.8%
FY16	380,940	79,491	34,313	113,804	-4.3%	48.11	107.1%	99.9%	119,426	0.4%
FY17	380,940	79,162	32,075	111,237	-6.5%	48.65	109.7%	99.9%	118,850	-0.1%
FY18	380,940	82,552	31,936	114,489	-3.7%	45.77	97.8%	99.4%	112,501	-5.4%
FY19	380,940	89,327	31,981	121,308	2.0%	44.89	95.6%	99.8%	117,288	-1.4%
FY20	380,940	80,858	32,354	113,212	-4.8%	46.41	99.2%	100.0%	112,547	-5.4%
FY21	380,940	75,388	31,157	106,545	-10.4%	47.24	99.9%	99.1%	106,160	-10.7%
FY22	380,940	81,634	31,505	113,140	-4.9%	46.75	100.6%	99.3%	113,447	-4.6%
FY23	380,940	78,401	31,316	109,717	-7.7%	47.58	103.8%	99.9%	112,670	-5.2%

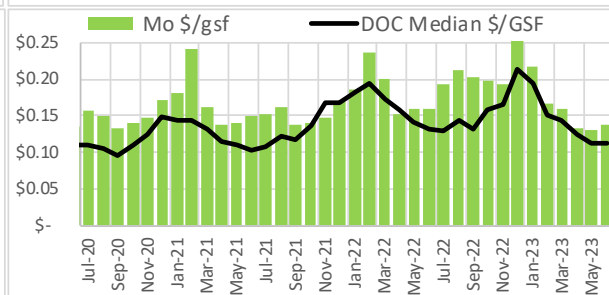
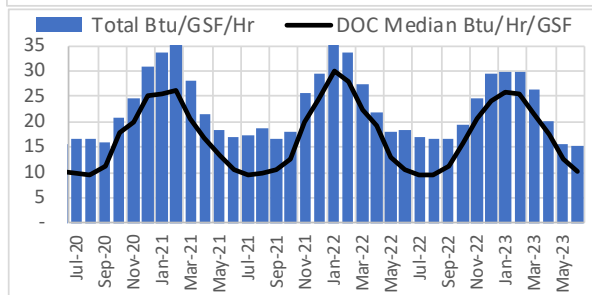
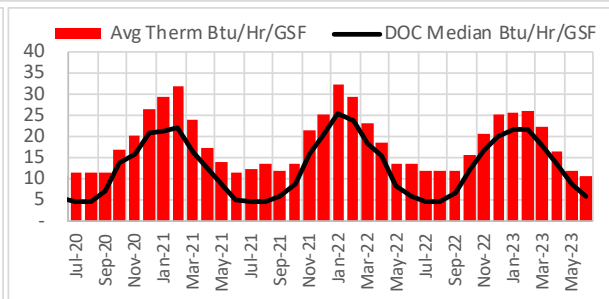
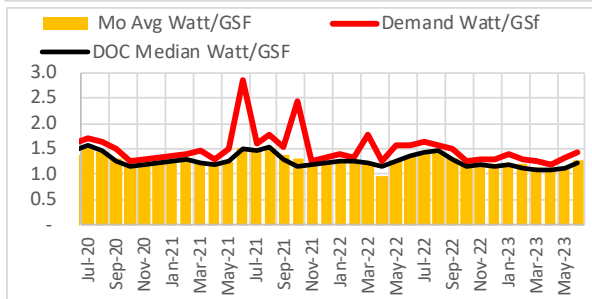
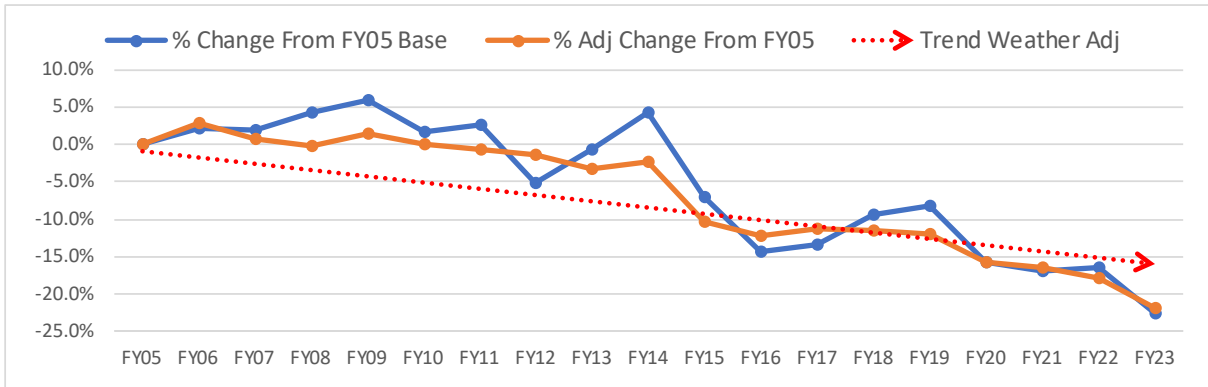
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOC-Waupun Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 10.80		FY23 Therm/GSF = 1.53		FY23 Total Btu/GSF = 189,910		05-23 Thm -23.9%				
FY23 Electric \$/GSF = \$ 1.30		FY23 Thermal \$/GSF = \$ 0.91		FY23 Energy \$/GSF = \$ 2.20		05-23 kwh -11.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,260,274	203,602	41,632	245,233	0.0%	48.12	100.0%	100.0%	245,233	0.0%
FY06	1,260,274	209,536	40,731	250,267	2.1%	48.65	100.9%	99.5%	251,993	2.8%
FY07	1,260,274	209,439	40,638	250,078	2.0%	47.46	98.5%	99.7%	246,800	0.6%
FY08	1,260,274	213,020	42,524	255,545	4.2%	46.19	95.0%	99.3%	244,539	-0.3%
FY09	1,260,274	217,938	42,051	259,989	6.0%	45.66	94.9%	99.6%	248,688	1.4%
FY10	1,260,274	208,344	40,815	249,159	1.6%	47.10	98.3%	100.1%	245,612	0.2%
FY11	1,260,274	208,778	43,122	251,900	2.7%	46.81	96.4%	98.0%	243,576	-0.7%
FY12	1,260,274	190,756	41,753	232,509	-5.2%	51.51	105.1%	99.7%	242,090	-1.3%
FY13	1,260,274	202,136	41,702	243,838	-0.6%	47.29	97.0%	99.3%	237,496	-3.2%
FY14	1,260,274	214,423	41,576	255,999	4.4%	44.58	92.8%	98.2%	239,743	-2.2%
FY15	1,260,274	187,545	40,619	228,163	-7.0%	45.84	95.9%	99.5%	220,190	-10.2%
FY16	1,260,274	167,911	42,139	210,050	-14.3%	49.68	103.1%	99.9%	215,281	-12.2%
FY17	1,260,274	171,067	41,131	212,198	-13.5%	49.72	103.5%	99.1%	217,819	-11.2%
FY18	1,260,274	180,755	41,735	222,489	-9.3%	46.66	97.0%	99.4%	216,807	-11.6%
FY19	1,260,274	184,637	40,242	224,878	-8.3%	45.88	95.5%	99.2%	216,184	-11.8%
FY20	1,260,274	166,774	39,841	206,614	-15.7%	48.07	100.1%	99.7%	206,621	-15.7%
FY21	1,260,274	164,806	39,022	203,829	-16.9%	47.24	100.9%	98.7%	204,901	-16.4%
FY22	1,260,274	166,537	38,605	205,142	-16.3%	48.04	98.1%	98.3%	201,284	-17.9%
FY23	1,260,274	153,062	36,848	189,910	-22.6%	48.64	101.2%	99.9%	191,744	-21.8%

Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



# Agency Energy Use Summary

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## Department of Health Services



WISCONSIN DEPARTMENT  
of HEALTH SERVICES

## SCOPE

Includes five facilities:

1. Mendota Complex - Mendota Mental Health Institute and Center Wisconsin Center;
2. Northern Center and Chippewa Valley CTF (DOC);
3. Sand Ridge Center;
4. Southern Center - Southern Oaks Girls School (DOC), Ellsworth Correctional Center (DOC), and facilities now operated by Department of Veterans Affairs; and
5. Winnebago Complex - Winnebago Mental Health Institute and Wisconsin Resources Center.

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 14.6 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 5.5 percent decrease**

Energy use (BTU/GSF/Yr) for FY23 decrease 5.5 percent from the previous fiscal year, FY22.

***Average Annual Change - Weather Adjusted: 1 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 1 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: -2.1 percent decrease.***

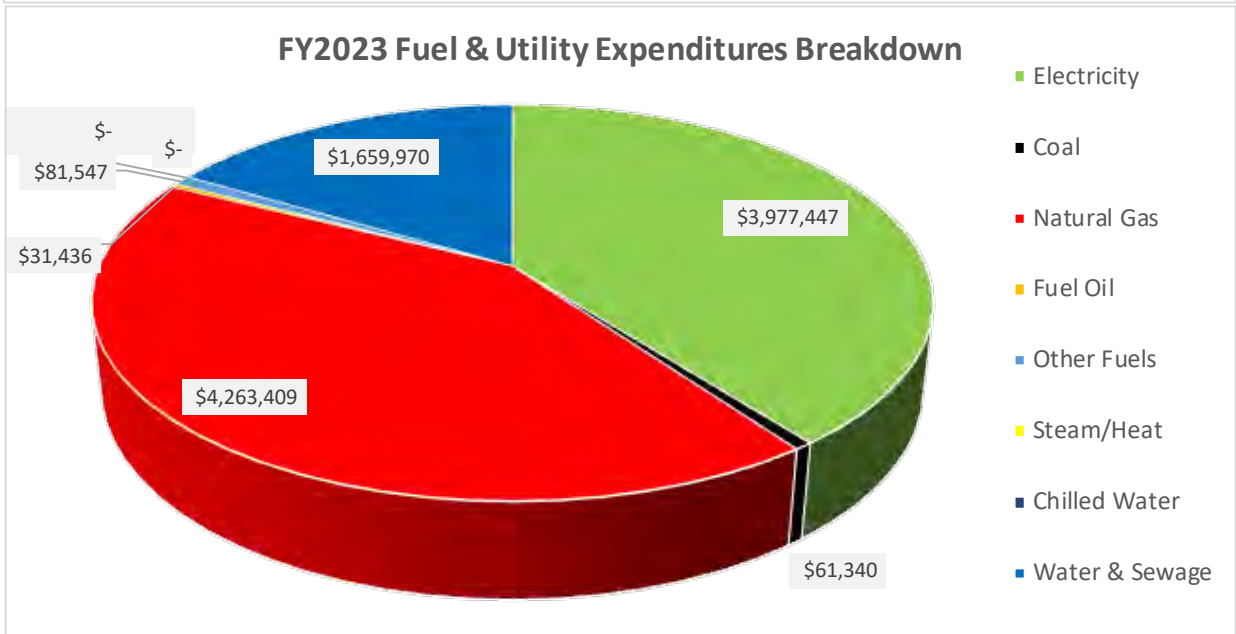
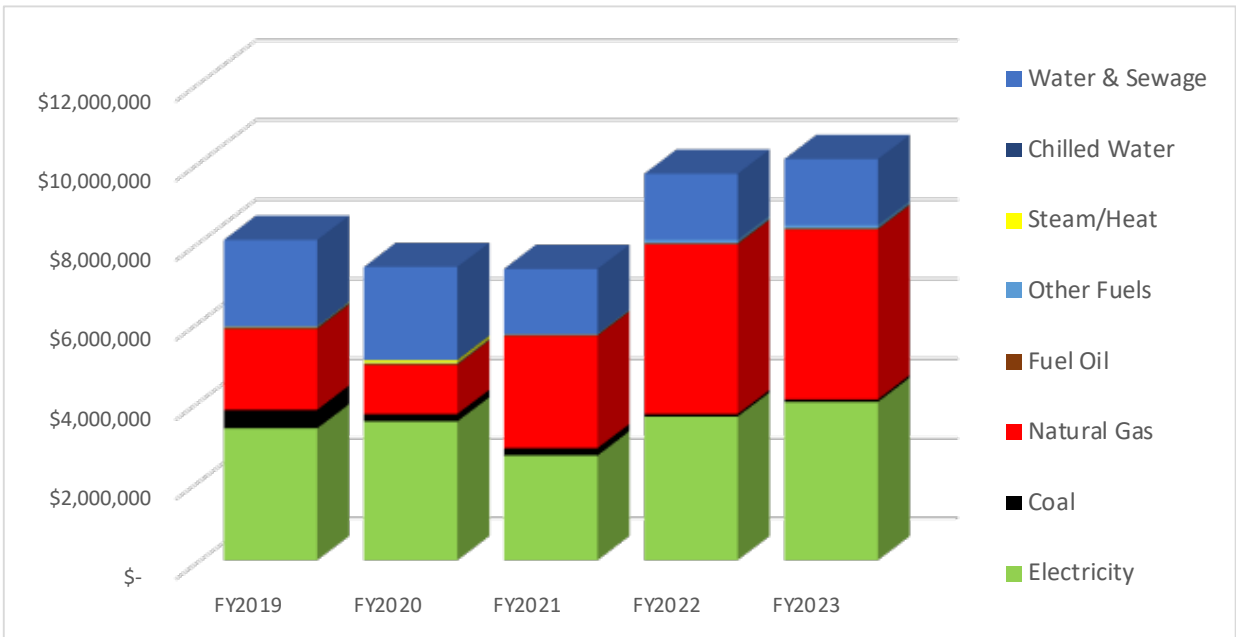
Gross square footage (GSF) has decreased 2.1% from the base fiscal year, FY05.

***Consumption Change from Base: 17.6 percent decrease.***

Total consumption was 17.6 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 16.4 percent less than in the base year when adjusted for weather compared to FY05.

**Health Services, Department of**

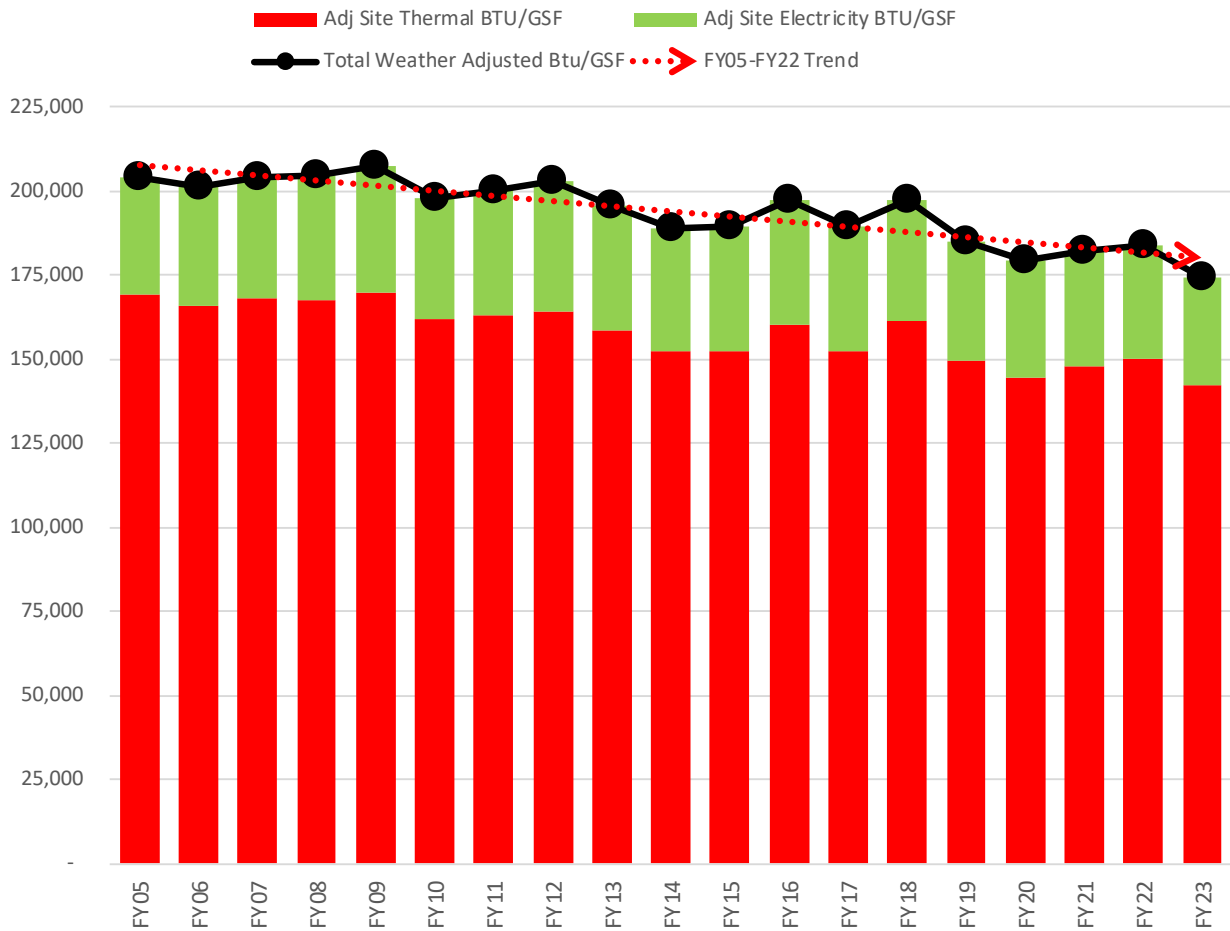
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 3,313,725	\$ 3,487,127	\$ 2,632,095	\$ 3,608,601	\$ 3,977,447
Coal	\$ 468,114	\$ 188,089	\$ 185,864	\$ 61,340	\$ 61,340
Natural Gas	\$ 2,019,910	\$ 1,228,406	\$ 2,813,926	\$ 4,263,409	\$ 4,263,409
Fuel Oil	\$ 45,694	\$ 32,911	\$ 32,631	\$ 31,436	\$ 31,436
Other Fuels	\$ 25,010	\$ 18,022	\$ 30,065	\$ 81,547	\$ 81,547
Steam/Heat	\$ 7,811	\$ 70,175	\$ -	\$ -	\$ -
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 2,164,879	\$ 2,342,656	\$ 1,623,569	\$ 1,659,970	\$ 1,659,970
<b>Total Utilities</b>	<b>\$ 8,045,143</b>	<b>\$ 7,367,384</b>	<b>\$ 7,318,151</b>	<b>\$ 9,706,302</b>	<b>\$ 10,075,148</b>



### DHS Fiscal Year 2023 Total State Agency Total (FY2005 Base)

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	4,247,798	169,215	34,970	204,184	0.0%	46.88	100.0%	100.0%	204,184	0.0%
FY06	4,247,798	162,465	36,013	198,479	-2.8%	48.27	102.1%	98.9%	201,438	-1.3%
FY07	4,247,798	167,295	36,142	203,437	-0.4%	47.22	100.5%	99.5%	204,169	0.0%
FY08	4,247,798	173,573	37,301	210,874	3.3%	45.37	96.5%	99.1%	204,549	0.2%
FY09	4,099,238	177,474	37,891	215,365	5.5%	44.57	95.6%	99.9%	207,572	1.7%
FY10	4,198,234	161,722	35,845	197,567	-3.2%	46.59	100.1%	100.4%	197,835	-3.1%
FY11	4,198,234	168,916	37,803	206,720	1.2%	45.37	96.5%	98.9%	200,386	-1.9%
FY12	4,088,791	155,669	39,096	194,765	-4.6%	50.43	105.6%	98.7%	202,965	-0.6%
FY13	4,145,773	163,386	37,009	200,396	-1.9%	45.81	97.2%	99.7%	195,715	-4.1%
FY14	4,145,773	166,387	36,777	203,164	-0.5%	42.94	91.7%	98.9%	188,949	-7.5%
FY15	4,159,400	159,109	36,732	195,841	-4.1%	44.53	95.9%	100.5%	189,440	-7.2%
FY16	4,159,400	155,603	37,360	192,962	-5.5%	48.65	103.1%	99.4%	197,547	-3.3%
FY17	4,159,400	147,570	37,742	185,312	-9.2%	48.91	103.3%	98.5%	189,537	-7.2%
FY18	4,159,400	165,404	36,238	201,642	-1.2%	45.68	97.7%	99.3%	197,565	-3.2%
FY19	4,159,400	155,221	35,072	190,294	-6.8%	44.85	96.4%	100.0%	184,753	-9.5%
FY20	4,159,400	143,486	35,152	178,637	-12.5%	47.02	100.7%	99.5%	179,487	-12.1%
FY21	4,159,400	146,783	34,546	181,329	-11.2%	47.53	100.8%	98.4%	181,936	-10.9%
FY22	4,159,400	150,294	34,072	184,366	-9.7%	47.04	100.0%	97.9%	183,598	-10.1%
FY23	4,159,400	139,676	32,105	171,781	-15.9%	47.78	102.0%	99.3%	174,363	-14.6%

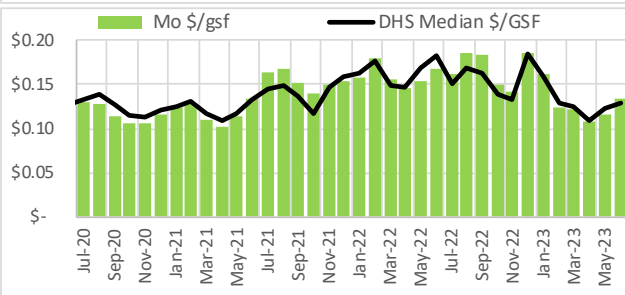
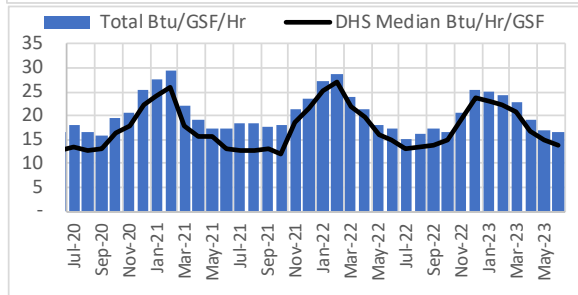
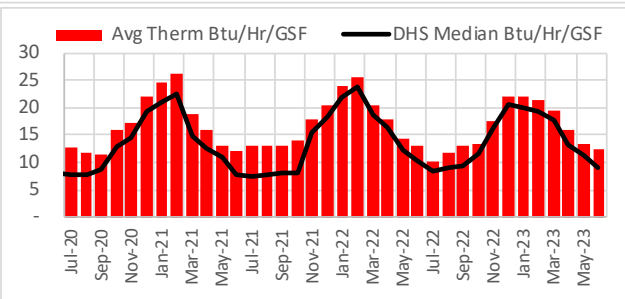
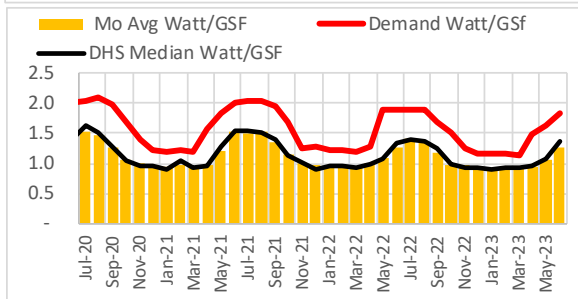
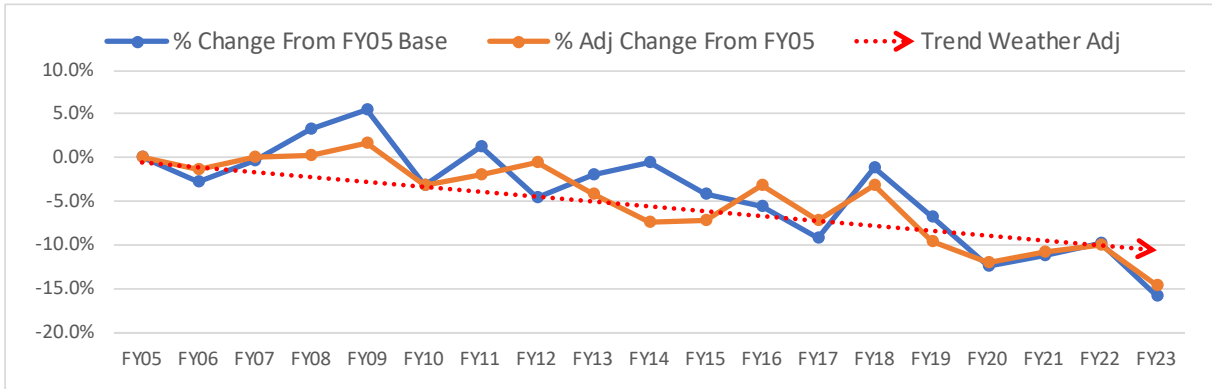
### Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)



### DHS Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 9.41		FY23 Therm/GSF = 1.40		FY23 Total Btu/GSF = 171,781		05-23 Thm -15.8%				
FY23 Electric \$/GSF = \$ 0.93		FY23 Thermal \$/GSF = \$ 0.85		FY23 Energy \$/GSF = \$ 1.78		05-23 kwh -8.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	4,247,798	169,215	34,970	204,184	0.0%	46.88	100.0%	100.0%	204,184	0.0%
FY06	4,247,798	162,465	36,013	198,479	-2.8%	48.27	102.1%	98.9%	201,438	-1.3%
FY07	4,247,798	167,295	36,142	203,437	-0.4%	47.22	100.5%	99.5%	204,169	0.0%
FY08	4,247,798	173,573	37,301	210,874	3.3%	45.37	96.5%	99.1%	204,549	0.2%
FY09	4,099,238	177,474	37,891	215,365	5.5%	44.57	95.6%	99.9%	207,572	1.7%
FY10	4,198,234	161,722	35,845	197,567	-3.2%	46.59	100.1%	100.4%	197,835	-3.1%
FY11	4,198,234	168,916	37,803	206,720	1.2%	45.37	96.5%	98.9%	200,386	-1.9%
FY12	4,088,791	155,669	39,096	194,765	-4.6%	50.43	105.6%	98.7%	202,965	-0.6%
FY13	4,145,773	163,386	37,009	200,396	-1.9%	45.81	97.2%	99.7%	195,715	-4.1%
FY14	4,145,773	166,387	36,777	203,164	-0.5%	42.94	91.7%	98.9%	188,949	-7.5%
FY15	4,159,400	159,109	36,732	195,841	-4.1%	44.53	95.9%	100.5%	189,440	-7.2%
FY16	4,159,400	155,603	37,360	192,962	-5.5%	48.65	103.1%	99.4%	197,547	-3.3%
FY17	4,159,400	147,570	37,742	185,312	-9.2%	48.91	103.3%	98.5%	189,537	-7.2%
FY18	4,159,400	165,404	36,238	201,642	-1.2%	45.68	97.7%	99.3%	197,565	-3.2%
FY19	4,159,400	155,221	35,072	190,294	-6.8%	44.85	96.4%	100.0%	184,753	-9.5%
FY20	4,159,400	143,486	35,152	178,637	-12.5%	47.02	100.7%	99.5%	179,487	-12.1%
FY21	4,159,400	146,783	34,546	181,329	-11.2%	47.53	100.8%	98.4%	181,936	-10.9%
FY22	4,159,400	150,294	34,072	184,366	-9.7%	47.04	100.0%	97.9%	183,598	-10.1%
FY23	4,159,400	139,676	32,105	171,781	-15.9%	47.78	102.0%	99.3%	174,363	-14.6%

Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

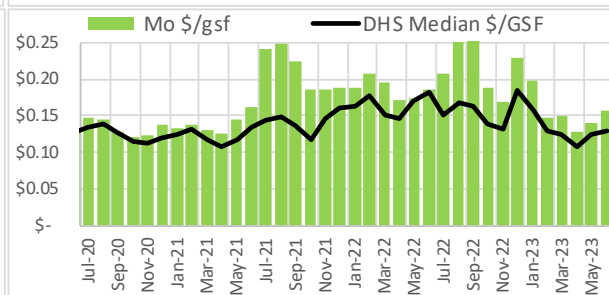
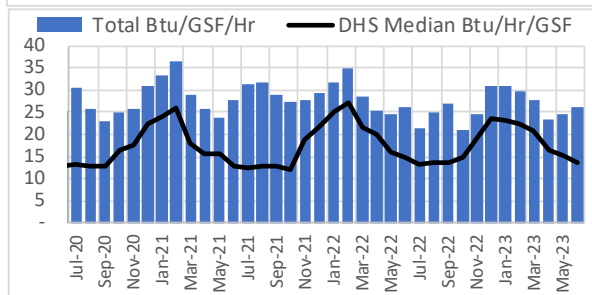
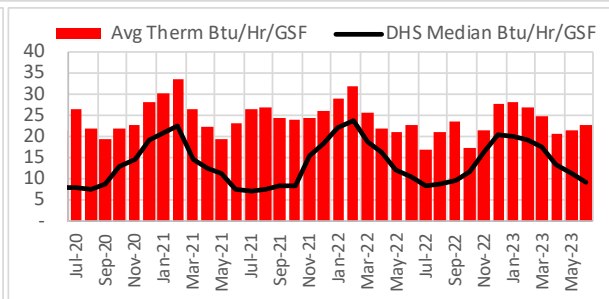
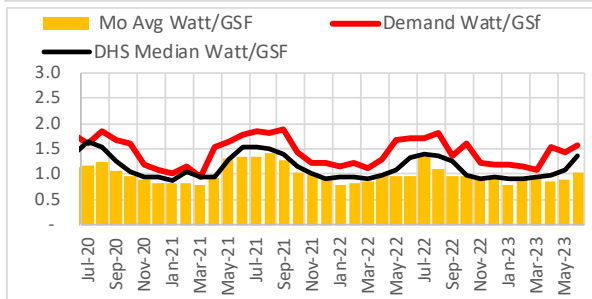
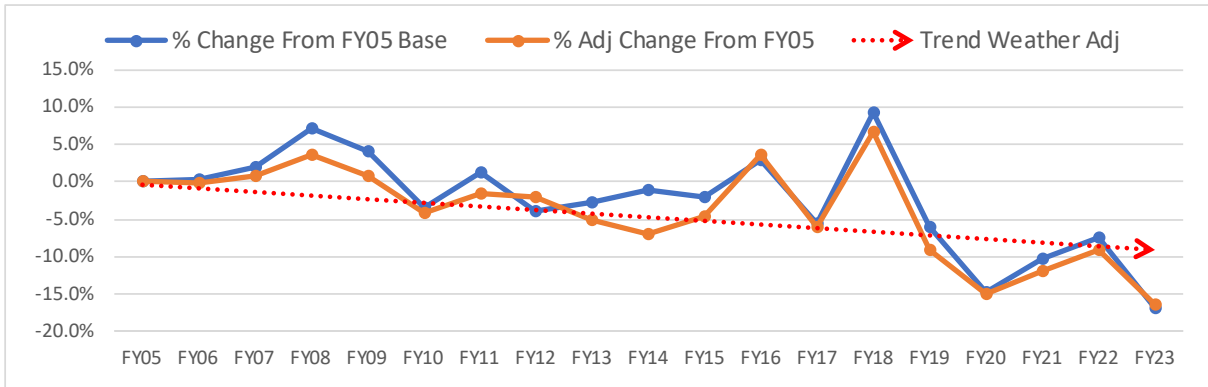




### DHS-Mendota Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.57		FY23 Therm/GSF = 1.99		FY23 Total Btu/GSF = 227,761		05-23 Thm -16.0%				
FY23 Electric \$/GSF = \$ 1.00		FY23 Thermal \$/GSF = \$ 1.22		FY23 Energy \$/GSF = \$ 2.21		05-23 kwh -18.7%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,313,997	237,977	35,861	273,839	0.0%	48.12	100.0%	100.0%	273,839	0.0%
FY06	1,313,997	236,207	38,330	274,537	0.3%	48.65	99.7%	99.2%	273,450	-0.1%
FY07	1,313,997	242,071	37,144	279,215	2.0%	47.46	98.8%	99.8%	276,326	0.9%
FY08	1,313,997	255,709	37,895	293,604	7.2%	46.19	96.3%	99.4%	283,806	3.6%
FY09	1,313,997	248,507	36,513	285,020	4.1%	45.66	96.5%	100.1%	276,359	0.9%
FY10	1,313,997	231,683	32,812	264,495	-3.4%	47.10	99.1%	100.6%	262,632	-4.1%
FY11	1,313,997	240,209	37,268	277,477	1.3%	46.81	96.8%	99.1%	269,493	-1.6%
FY12	1,313,997	225,823	37,359	263,182	-3.9%	51.51	102.5%	98.6%	268,340	-2.0%
FY13	1,313,997	230,260	35,982	266,242	-2.8%	47.29	97.2%	100.2%	259,882	-5.1%
FY14	1,313,997	234,125	36,625	270,750	-1.1%	44.58	93.4%	99.0%	255,054	-6.9%
FY15	1,320,211	231,774	36,852	268,627	-1.9%	45.84	96.9%	100.1%	261,471	-4.5%
FY16	1,320,211	244,583	37,478	282,062	3.0%	49.68	100.8%	99.7%	283,955	3.7%
FY17	1,320,211	221,327	37,462	258,789	-5.5%	49.72	99.4%	99.7%	257,383	-6.0%
FY18	1,320,211	264,205	34,869	299,074	9.2%	46.66	97.4%	99.8%	292,180	6.7%
FY19	1,320,211	224,992	32,418	257,410	-6.0%	45.88	96.3%	100.8%	249,267	-9.0%
FY20	1,320,211	201,745	31,743	233,488	-14.7%	48.07	99.9%	99.6%	233,088	-14.9%
FY21	1,320,211	215,248	30,420	245,668	-10.3%	47.61	97.9%	99.7%	241,050	-12.0%
FY22	1,320,211	222,584	30,957	253,541	-7.4%	48.04	98.1%	99.2%	249,153	-9.0%
FY23	1,320,211	198,503	29,258	227,761	-16.8%	48.64	100.7%	99.7%	228,954	-16.4%

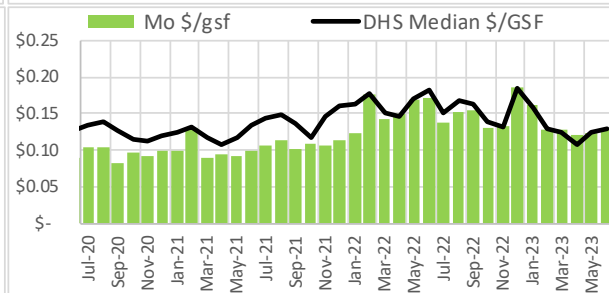
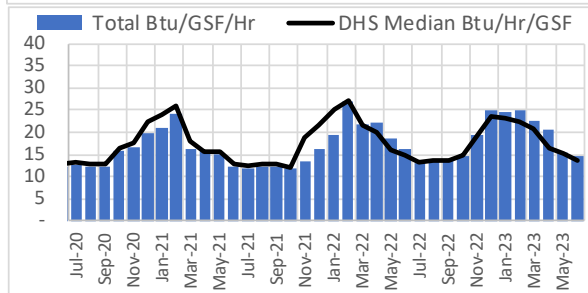
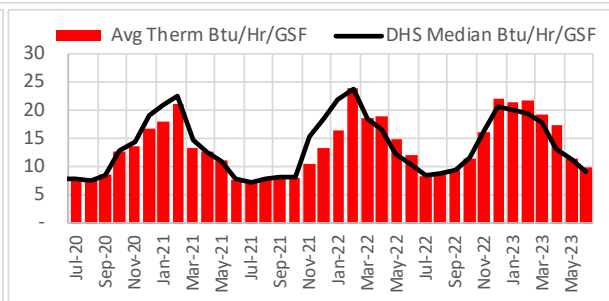
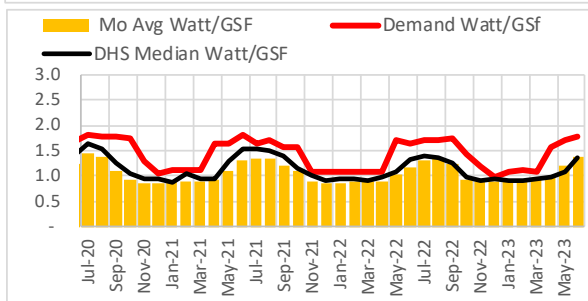
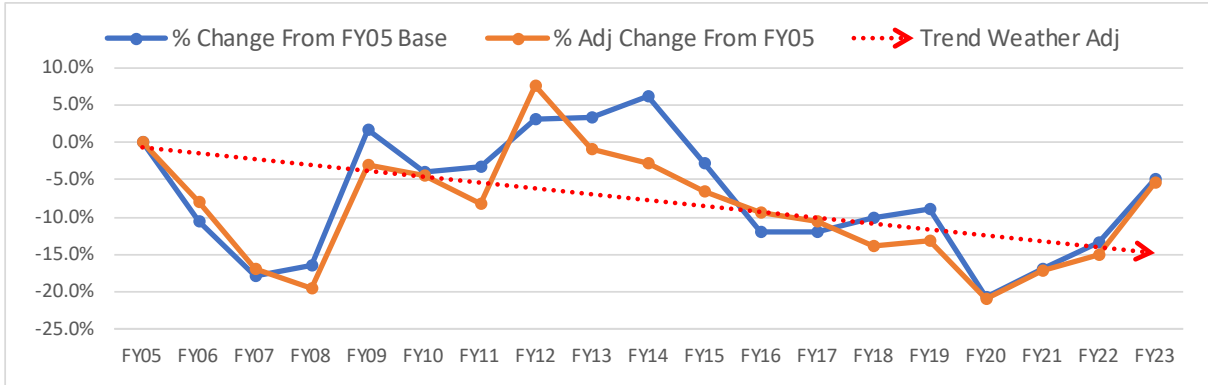
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DHS-Northern Center Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.47		FY23 Therm/GSF = 1.29		FY23 Total Btu/GSF = 161,720		05-23 Thm -8.1%				
FY23 Electric \$/GSF = \$ 0.88		FY23 Thermal \$/GSF = \$ 0.81		FY23 Energy \$/GSF = \$ 1.69		05-23 kwh 8.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	792,392	140,342	29,596	169,938	0.0%	45.85	100.0%	100.0%	169,938	0.0%
FY06	792,392	125,767	26,128	151,895	-10.6%	47.80	104.1%	98.1%	156,566	-7.9%
FY07	792,392	116,598	23,016	139,614	-17.8%	46.32	101.6%	98.9%	141,181	-16.9%
FY08	792,392	118,343	23,497	141,840	-16.5%	43.27	95.7%	99.2%	136,619	-19.6%
FY09	632,669	145,198	27,642	172,840	1.7%	42.97	94.5%	100.3%	164,934	-2.9%
FY10	632,669	135,595	27,797	163,393	-3.9%	45.29	99.3%	100.5%	162,530	-4.4%
FY11	632,669	137,811	26,675	164,486	-3.2%	43.68	93.9%	99.4%	155,916	-8.3%
FY12	523,226	141,377	33,800	175,176	3.1%	49.02	105.8%	99.1%	182,996	7.7%
FY13	523,226	142,405	33,212	175,617	3.3%	43.85	94.9%	100.5%	168,582	-0.8%
FY14	523,226	147,899	32,472	180,371	6.1%	41.37	89.8%	99.3%	165,060	-2.9%
FY15	523,226	132,461	32,892	165,353	-2.7%	43.42	95.0%	100.4%	158,923	-6.5%
FY16	523,226	116,617	32,861	149,478	-12.0%	47.61	103.9%	99.5%	153,828	-9.5%
FY17	523,226	117,850	31,901	149,751	-11.9%	47.08	102.1%	99.0%	151,917	-10.6%
FY18	523,226	121,382	31,467	152,849	-10.1%	42.94	94.6%	100.5%	146,466	-13.8%
FY19	523,226	123,130	31,647	154,778	-8.9%	42.23	93.8%	101.1%	147,529	-13.2%
FY20	523,226	103,341	31,579	134,920	-20.6%	45.39	99.4%	100.0%	134,249	-21.0%
FY21	523,226	109,783	31,403	141,186	-16.9%	46.03	100.1%	98.8%	140,891	-17.1%
FY22	523,226	116,030	31,147	147,177	-13.4%	44.82	97.9%	98.8%	144,416	-15.0%
FY23	523,226	129,403	32,317	161,720	-4.8%	45.80	99.6%	99.2%	160,961	-5.3%

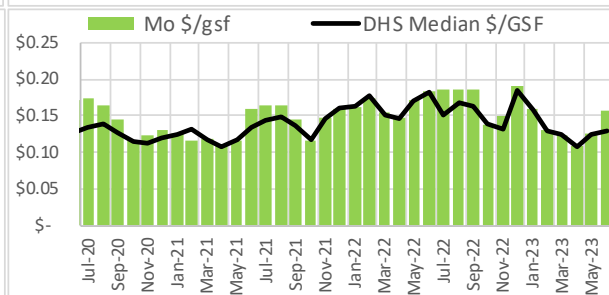
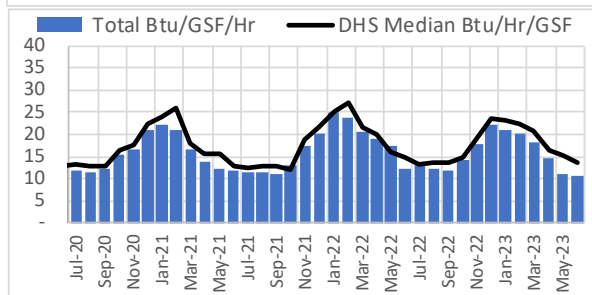
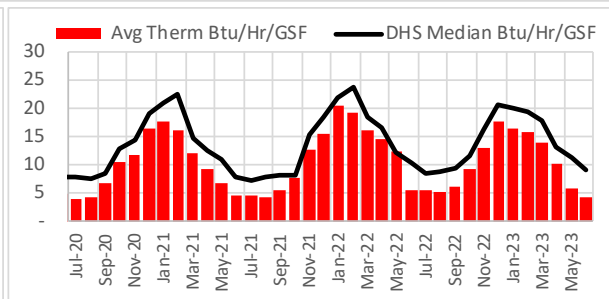
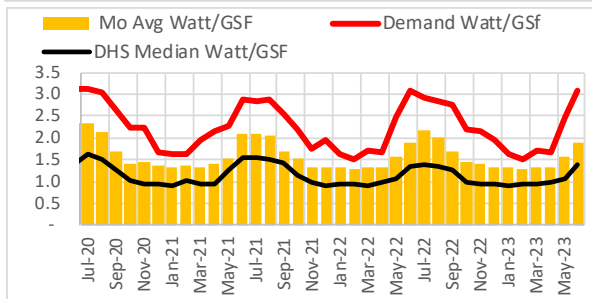
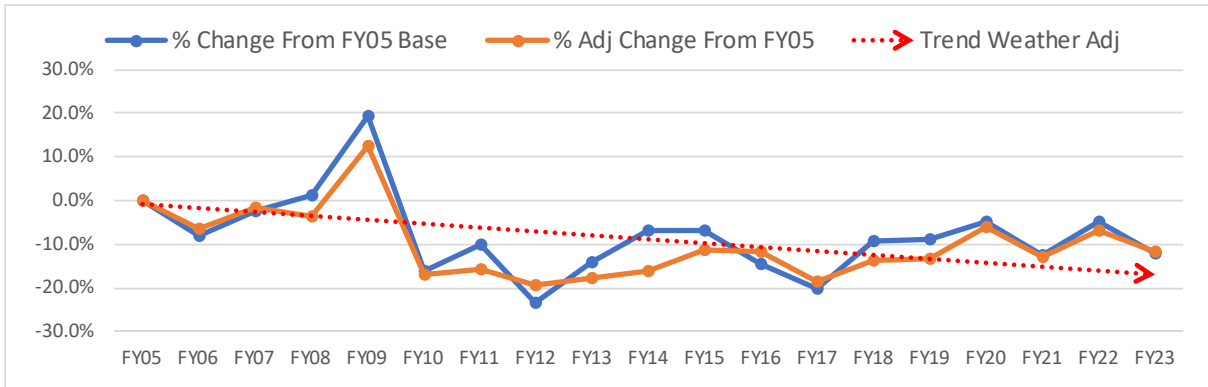
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DHS-Sand Ridge Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 13.75		FY23 Therm/GSF = 0.90		FY23 Total Btu/GSF = 136,550		05-23 Thm -12.6%				
FY23 Electric \$/GSF = \$ 1.25		FY23 Thermal \$/GSF = \$ 0.59		FY23 Energy \$/GSF = \$ 1.84		05-23 kwh -9.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	198,669	102,791	52,262	155,053	0.0%	46.04	100.0%	100.0%	155,053	0.0%
FY06	198,669	89,314	53,296	142,610	-8.0%	47.49	102.8%	100.1%	145,178	-6.4%
FY07	198,669	97,073	54,087	151,160	-2.5%	46.81	101.8%	100.0%	152,884	-1.4%
FY08	198,669	101,388	55,392	156,780	1.1%	44.51	93.1%	99.2%	149,331	-3.7%
FY09	209,832	124,824	60,174	184,998	19.3%	43.51	91.6%	99.5%	174,179	12.3%
FY10	308,828	87,515	42,823	130,338	-15.9%	45.49	98.4%	100.4%	129,078	-16.8%
FY11	308,828	93,215	45,947	139,163	-10.2%	43.59	91.4%	99.3%	130,787	-15.7%
FY12	308,828	71,292	47,554	118,846	-23.4%	49.50	108.2%	100.8%	125,045	-19.4%
FY13	308,828	87,051	45,928	132,979	-14.2%	44.37	94.2%	99.6%	127,777	-17.6%
FY14	308,828	96,944	47,473	144,417	-6.9%	41.62	86.0%	97.8%	129,853	-16.3%
FY15	308,828	95,635	48,863	144,499	-6.8%	43.36	92.6%	100.5%	137,695	-11.2%
FY16	308,828	83,536	48,828	132,365	-14.6%	47.34	105.1%	100.1%	136,647	-11.9%
FY17	308,828	74,372	49,474	123,846	-20.1%	47.13	103.7%	99.9%	126,503	-18.4%
FY18	308,828	90,990	49,405	140,395	-9.5%	44.30	93.2%	99.5%	133,962	-13.6%
FY19	308,828	92,423	49,045	141,468	-8.8%	43.35	92.5%	99.8%	134,399	-13.3%
FY20	308,828	95,707	51,608	147,315	-5.0%	45.35	97.8%	100.4%	145,403	-6.2%
FY21	308,828	87,225	48,509	135,733	-12.5%	45.89	100.0%	99.1%	135,316	-12.7%
FY22	308,828	100,729	46,718	147,448	-4.9%	44.68	97.2%	99.8%	144,519	-6.8%
FY23	308,828	89,612	46,938	136,550	-11.9%	45.80	100.2%	100.9%	137,197	-11.5%

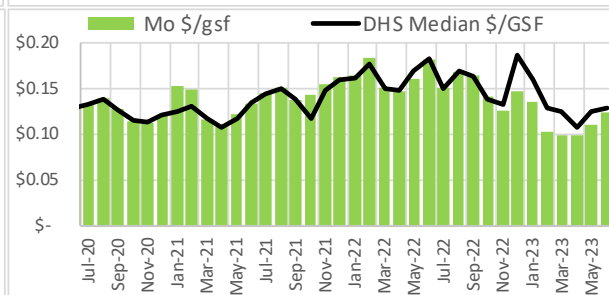
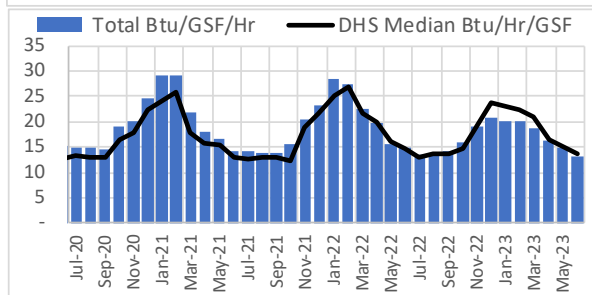
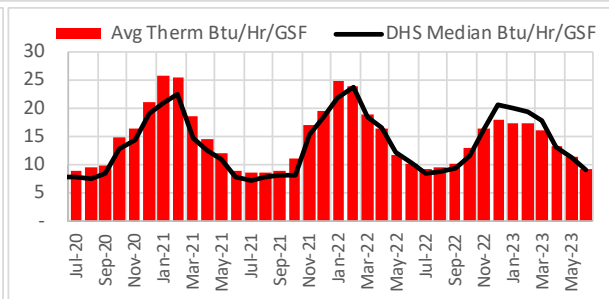
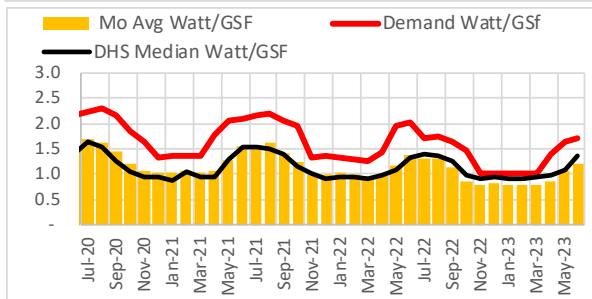
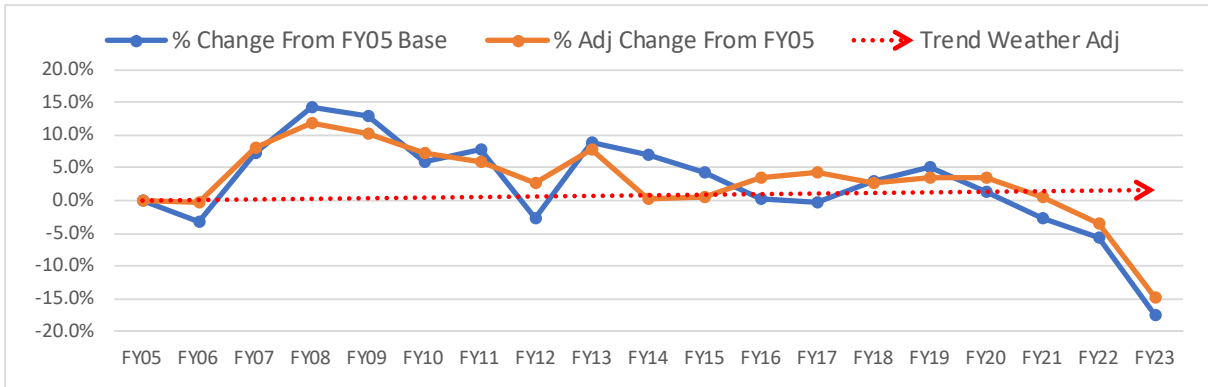
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DHS-Southern Center Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 8.61		FY23 Therm/GSF = 1.17		FY23 Total Btu/GSF = 146,538		05-23 Thm -14.2%				
FY23 Electric \$/GSF = \$ 0.87		FY23 Thermal \$/GSF = \$ 0.70		FY23 Energy \$/GSF = \$ 1.56		05-23 kwh -16.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	1,023,235	142,723	34,662	177,385	0.0%	48.47	100.0%	100.0%	177,385	0.0%
FY06	1,023,235	135,306	36,395	171,701	-3.2%	50.11	104.2%	98.4%	176,778	-0.3%
FY07	1,023,235	149,554	40,525	190,080	7.2%	48.88	101.3%	99.1%	191,624	8.0%
FY08	1,023,235	159,251	43,608	202,859	14.4%	47.87	97.5%	98.6%	198,361	11.8%
FY09	1,023,235	158,024	42,358	200,382	13.0%	47.26	97.1%	99.3%	195,565	10.2%
FY10	1,023,235	146,831	41,183	188,014	6.0%	49.10	101.7%	99.7%	190,332	7.3%
FY11	1,023,235	149,154	42,047	191,202	7.8%	48.17	98.4%	97.9%	187,924	5.9%
FY12	1,023,235	132,494	39,930	172,424	-2.8%	52.24	107.9%	97.7%	182,001	2.6%
FY13	1,023,235	154,828	38,549	193,377	9.0%	48.26	98.9%	99.0%	191,323	7.9%
FY14	1,023,235	152,116	37,854	189,969	7.1%	45.20	92.1%	99.6%	177,781	0.2%
FY15	1,023,235	147,440	37,606	185,046	4.3%	46.08	95.2%	101.1%	178,379	0.6%
FY16	1,023,235	139,236	38,534	177,771	0.2%	50.51	104.6%	98.8%	183,667	3.5%
FY17	1,023,235	136,747	40,003	176,750	-0.4%	51.99	107.0%	96.3%	184,897	4.2%
FY18	1,023,235	144,120	38,692	182,812	3.1%	48.73	100.1%	98.5%	182,349	2.8%
FY19	1,023,235	148,453	38,073	186,526	5.2%	47.88	98.4%	99.0%	183,757	3.6%
FY20	1,023,235	141,818	37,972	179,790	1.4%	49.85	103.2%	98.7%	183,785	3.6%
FY21	1,023,235	135,257	37,582	172,840	-2.6%	50.84	105.0%	96.8%	178,418	0.6%
FY22	1,023,235	131,234	35,917	167,151	-5.8%	50.90	104.1%	95.8%	171,077	-3.6%
FY23	1,023,235	117,162	29,376	146,538	-17.4%	51.09	104.5%	98.0%	151,219	-14.8%

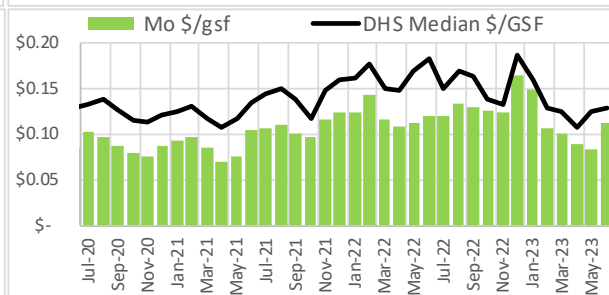
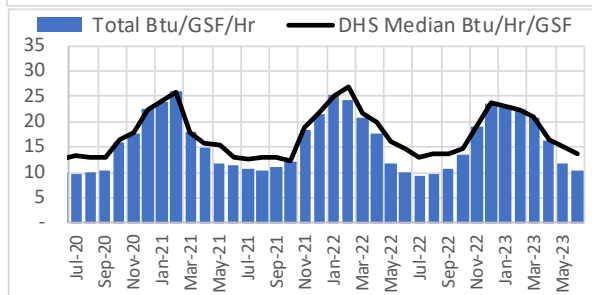
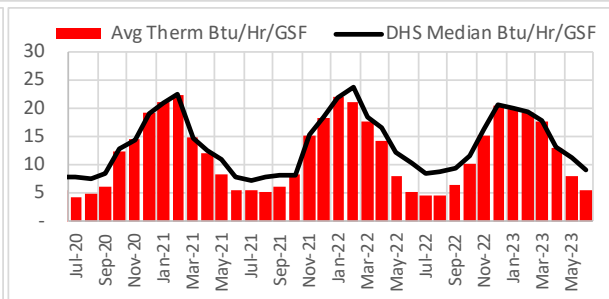
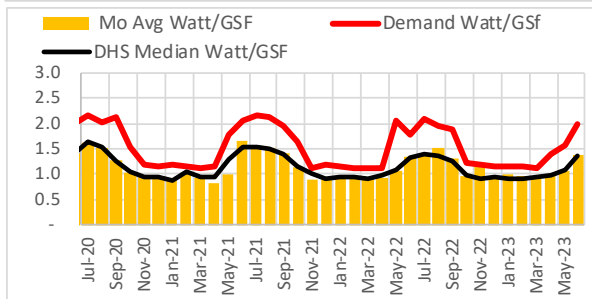
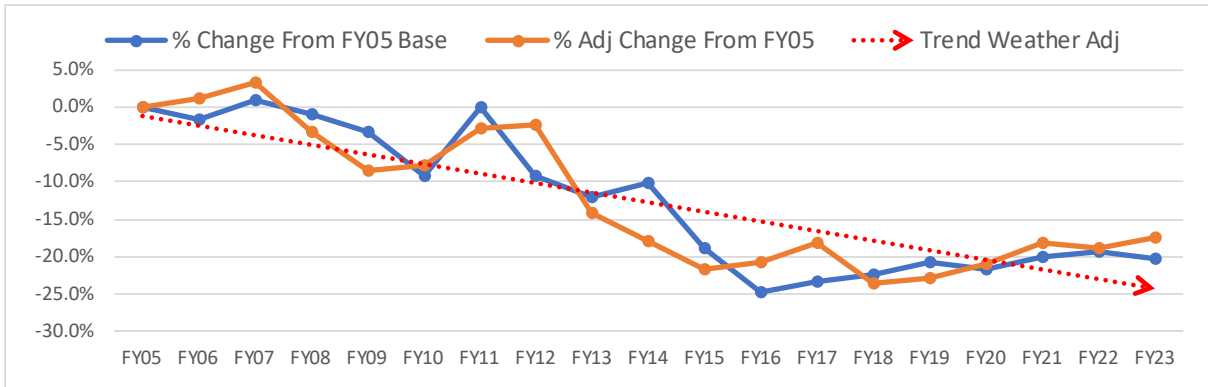
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DHS-Winnebago Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 9.96		FY23 Therm/GSF = 1.05		FY23 Total Btu/GSF = 139,329		05-23 Thm -21.1%				
FY23 Electric \$/GSF = \$ 0.83		FY23 Thermal \$/GSF = \$ 0.60		FY23 Energy \$/GSF = \$ 1.43		05-23 kwh -3.4%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	919,505	139,664	34,932	174,596	0.0%	45.92	100.0%	100.0%	174,596	0.0%
FY06	919,505	134,739	37,064	171,803	-1.6%	47.27	103.9%	99.3%	176,796	1.3%
FY07	919,505	139,043	37,265	176,308	1.0%	46.64	103.0%	99.8%	180,378	3.3%
FY08	919,505	135,325	37,423	172,748	-1.1%	45.02	97.2%	99.3%	168,646	-3.4%
FY09	919,505	131,834	36,855	168,689	-3.4%	43.47	93.1%	100.2%	159,595	-8.6%
FY10	919,505	121,216	37,434	158,650	-9.1%	45.99	101.6%	101.0%	160,972	-7.8%
FY11	919,505	135,856	38,766	174,622	0.0%	44.59	96.3%	99.5%	169,472	-2.9%
FY12	919,505	117,679	40,821	158,500	-9.2%	49.86	110.5%	98.9%	170,405	-2.4%
FY13	976,487	117,750	35,992	153,742	-11.9%	45.29	97.0%	99.6%	149,997	-14.1%
FY14	976,487	122,059	34,777	156,837	-10.2%	41.95	89.3%	98.4%	143,187	-18.0%
FY15	983,900	107,836	33,896	141,732	-18.8%	43.98	95.3%	100.4%	136,762	-21.7%
FY16	983,900	96,580	34,771	131,351	-24.8%	48.11	107.5%	99.4%	138,403	-20.7%
FY17	983,900	98,638	35,189	133,827	-23.4%	48.65	109.9%	98.5%	143,117	-18.0%
FY18	983,900	101,736	33,926	135,662	-22.3%	45.77	98.3%	99.0%	133,572	-23.5%
FY19	983,900	105,418	32,949	138,366	-20.8%	44.89	96.8%	99.6%	134,824	-22.8%
FY20	983,900	103,393	33,526	136,918	-21.6%	46.41	101.0%	99.8%	137,851	-21.0%
FY21	983,900	105,273	34,213	139,485	-20.1%	47.28	103.7%	98.2%	142,733	-18.2%
FY22	983,900	106,895	33,919	140,814	-19.3%	46.75	101.7%	97.5%	141,759	-18.8%
FY23	983,900	105,335	33,994	139,329	-20.2%	47.58	104.7%	99.2%	143,975	-17.5%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

## Department of Public Instruction



### SCOPE

Includes the Wisconsin School for the Deaf (Delavan) and the Wisconsin School for the Blind and Visually Impaired (Janesville).

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 3.4 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 11.7 percent increase**

Energy use (BTU/GSF/Yr) for FY23 increase 11.7 percent from the previous fiscal year, FY22.

***Average Annual Change - Weather Adjusted: 0.2 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 0.2 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: 0 percent increase.***

Gross square footage (GSF) has not changed from the base fiscal year, FY05.

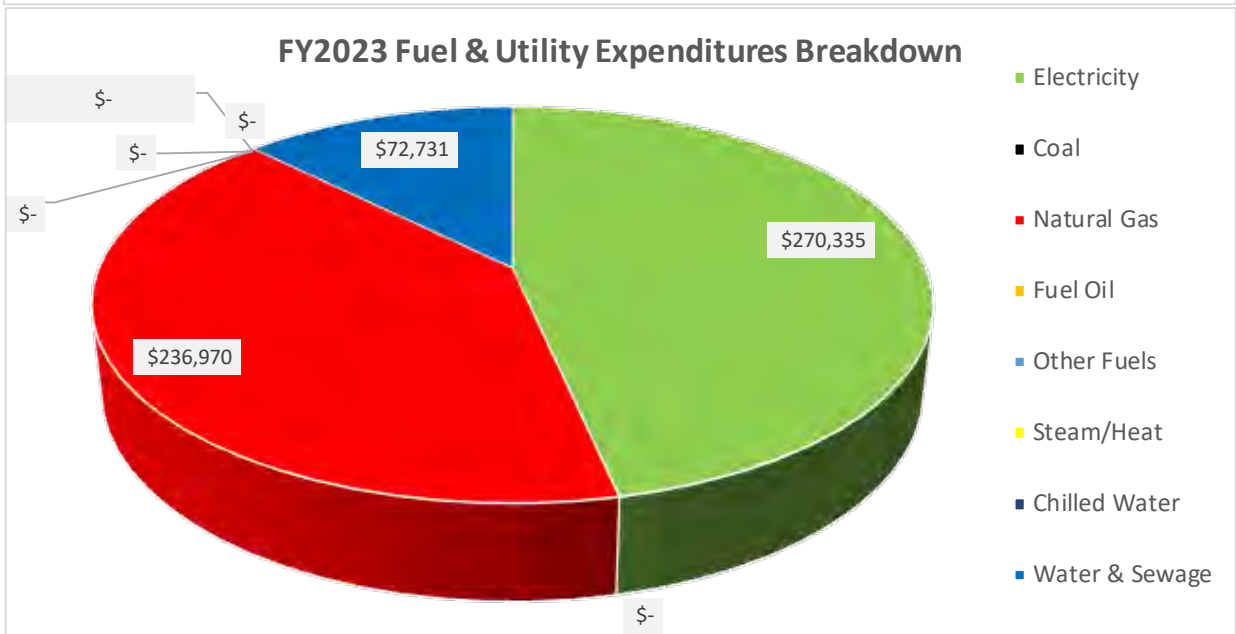
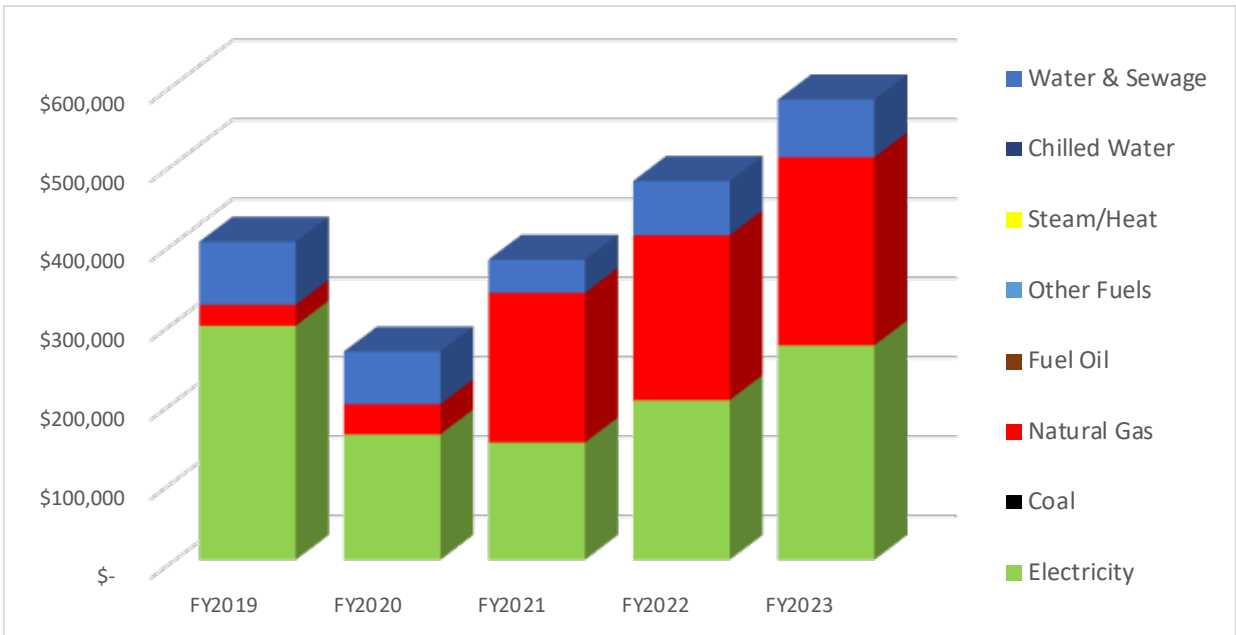
***Consumption Change from Base: 3.9 percent decrease.***

Total consumption was 3.9 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 3.4 percent less than in the base year when adjusted for weather compared to FY05.

**Public Instruction, Department of**

Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 295,170	\$ 158,139	\$ 147,799	\$ 201,195	\$ 270,335
Coal	\$ -	\$ -	\$ -	\$ -	\$ -
Natural Gas	\$ 26,310	\$ 38,034	\$ 188,764	\$ 207,844	\$ 236,970
Fuel Oil	\$ -	\$ -	\$ -	\$ -	\$ -
Other Fuels	\$ -	\$ -	\$ -	\$ -	\$ -
Steam/Heat	\$ -	\$ -	\$ -	\$ -	\$ -
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 79,355	\$ 66,287	\$ 41,728	\$ 68,400	\$ 72,731
<b>Total Utilities</b>	<b>\$ 400,835</b>	<b>\$ 262,459</b>	<b>\$ 378,291</b>	<b>\$ 477,439</b>	<b>\$ 580,036</b>

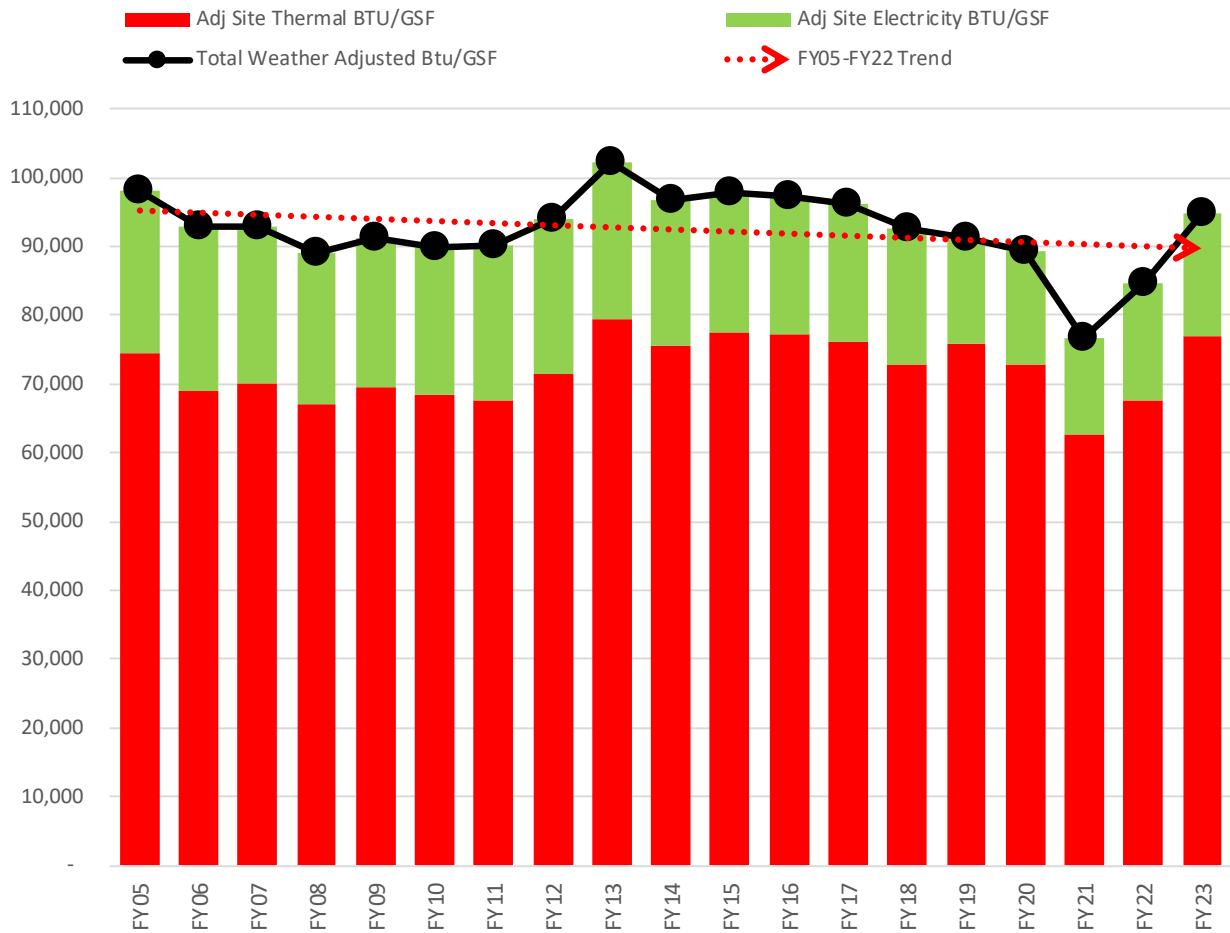
*Verify FY19 & FY20 Natural Gas Expenditures.*



### DPI Fiscal Year 2023 Total State Agency Total (FY2005 Base)

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	441,183	74,517	23,484	98,001	0.0%	48.12	100.0%	100.0%	98,001	0.0%
FY06	441,183	70,542	24,293	94,835	-3.2%	48.65	97.8%	99.0%	93,019	-5.1%
FY07	441,183	73,983	22,893	96,876	-1.1%	47.46	94.9%	99.5%	93,014	-5.1%
FY08	441,183	78,081	22,496	100,578	2.6%	46.19	85.8%	98.0%	89,031	-9.2%
FY09	441,183	80,109	21,788	101,897	4.0%	45.66	86.8%	99.3%	91,209	-6.9%
FY10	441,183	71,838	21,292	93,130	-5.0%	47.10	95.3%	100.3%	89,822	-8.3%
FY11	441,183	75,226	22,980	98,206	0.2%	46.81	89.9%	98.3%	90,204	-8.0%
FY12	441,183	65,293	22,746	88,039	-10.2%	51.51	109.6%	98.4%	93,966	-4.1%
FY13	441,183	85,243	23,015	108,258	10.5%	47.29	93.3%	99.2%	102,336	4.4%
FY14	441,183	89,901	21,379	111,281	13.6%	44.58	84.0%	99.8%	96,815	-1.2%
FY15	441,183	86,814	20,152	106,966	9.1%	45.84	89.4%	100.0%	97,745	-0.3%
FY16	441,183	72,932	20,276	93,209	-4.9%	49.68	105.8%	99.4%	97,350	-0.7%
FY17	441,183	71,518	20,328	91,847	-6.3%	49.72	106.3%	98.7%	96,117	-1.9%
FY18	441,183	82,097	20,116	102,213	4.3%	46.66	88.6%	99.2%	92,685	-5.4%
FY19	441,183	85,292	15,408	100,700	2.8%	45.88	89.0%	100.2%	91,376	-6.8%
FY20	441,183	75,214	16,595	91,809	-6.3%	48.07	96.7%	99.3%	89,229	-9.0%
FY21	441,183	66,229	14,259	80,488	-17.9%	47.61	94.7%	97.7%	76,664	-21.8%
FY22	441,183	72,940	17,485	90,425	-7.7%	48.04	92.7%	98.0%	84,777	-13.5%
FY23	441,183	76,405	17,800	94,206	-3.9%	48.64	100.6%	100.1%	94,712	-3.4%

### Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)

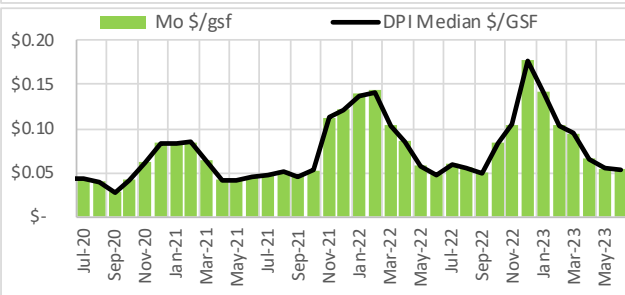
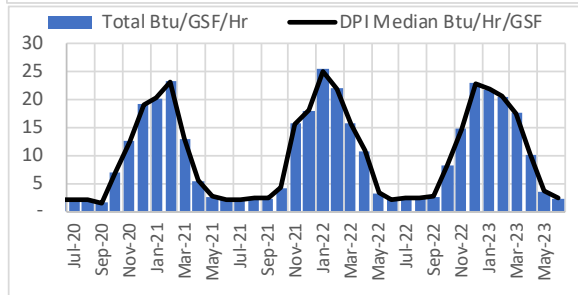
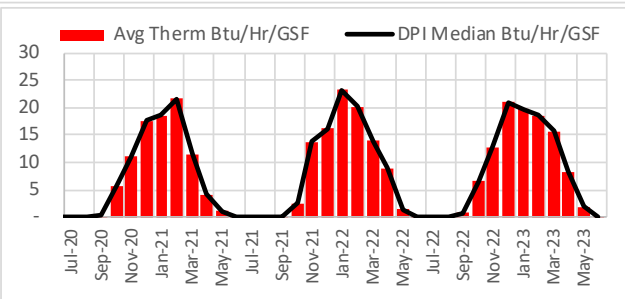
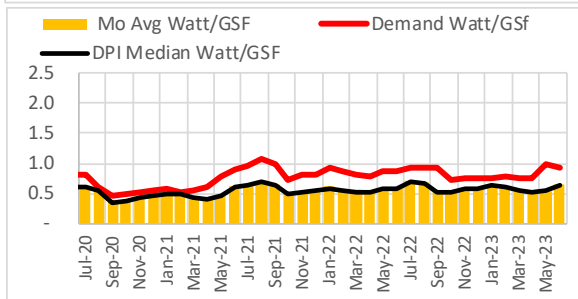
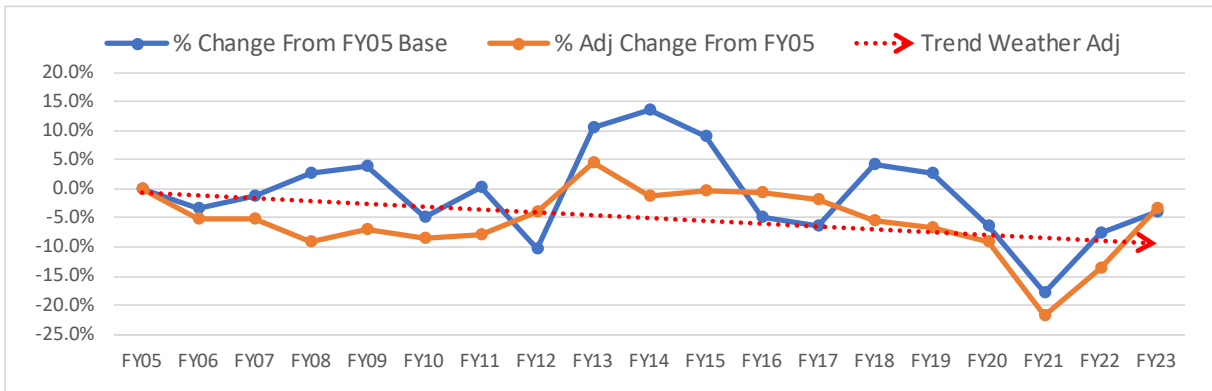




### DPI Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 5.22		FY23 Therm/GSF = 0.76		FY23 Total Btu/GSF = 94,206		05-23 Thm 3.2%				
FY23 Electric \$/GSF = \$ 0.58		FY23 Thermal \$/GSF = \$ 0.46		FY23 Energy \$/GSF = \$ 1.05		05-23 kwh -24.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	441,183	74,517	23,484	98,001	0.0%	48.12	100.0%	100.0%	98,001	0.0%
FY06	441,183	70,542	24,293	94,835	-3.2%	48.65	97.8%	99.0%	93,019	-5.1%
FY07	441,183	73,983	22,893	96,876	-1.1%	47.46	94.9%	99.5%	93,014	-5.1%
FY08	441,183	78,081	22,496	100,578	2.6%	46.19	85.8%	98.0%	89,031	-9.2%
FY09	441,183	80,109	21,788	101,897	4.0%	45.66	86.8%	99.3%	91,209	-6.9%
FY10	441,183	71,838	21,292	93,130	-5.0%	47.10	95.3%	100.3%	89,822	-8.3%
FY11	441,183	75,226	22,980	98,206	0.2%	46.81	89.9%	98.3%	90,204	-8.0%
FY12	441,183	65,293	22,746	88,039	-10.2%	51.51	109.6%	98.4%	93,966	-4.1%
FY13	441,183	85,243	23,015	108,258	10.5%	47.29	93.3%	99.2%	102,336	4.4%
FY14	441,183	89,901	21,379	111,281	13.6%	44.58	84.0%	99.8%	96,815	-1.2%
FY15	441,183	86,814	20,152	106,966	9.1%	45.84	89.4%	100.0%	97,745	-0.3%
FY16	441,183	72,932	20,276	93,209	-4.9%	49.68	105.8%	99.4%	97,350	-0.7%
FY17	441,183	71,518	20,328	91,847	-6.3%	49.72	106.3%	98.7%	96,117	-1.9%
FY18	441,183	82,097	20,116	102,213	4.3%	46.66	88.6%	99.2%	92,685	-5.4%
FY19	441,183	85,292	15,408	100,700	2.8%	45.88	89.0%	100.2%	91,376	-6.8%
FY20	441,183	75,214	16,595	91,809	-6.3%	48.07	96.7%	99.3%	89,229	-9.0%
FY21	441,183	66,229	14,259	80,488	-17.9%	47.61	94.7%	97.7%	76,664	-21.8%
FY22	441,183	72,940	17,485	90,425	-7.7%	48.04	92.7%	98.0%	84,777	-13.5%
FY23	441,183	76,405	17,800	94,206	-3.9%	48.64	100.6%	100.1%	94,712	-3.4%

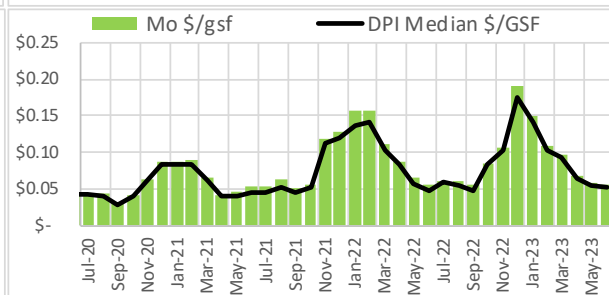
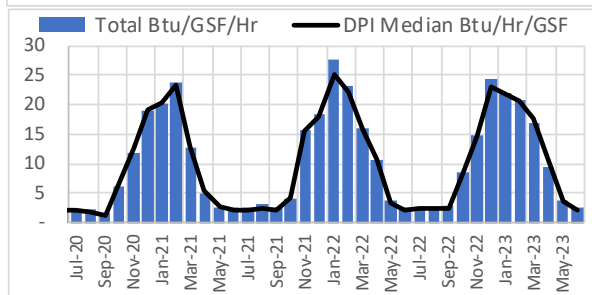
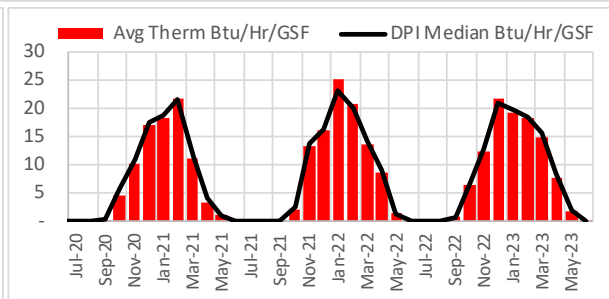
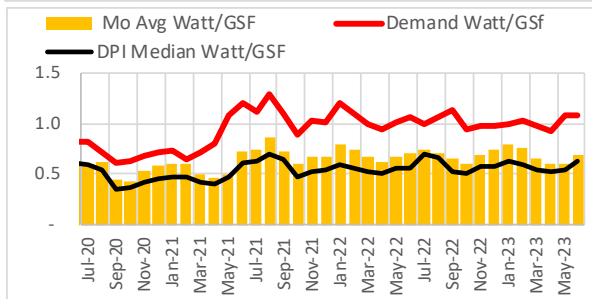
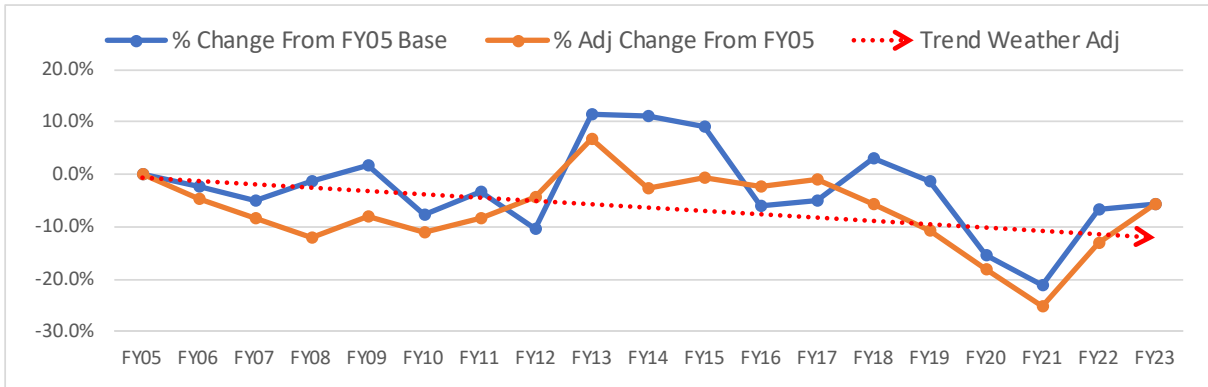
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DPI-Delavan Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 6.01		FY23 Therm/GSF = 0.75		FY23 Total Btu/GSF = 95,562		05-23 Thm 0.8%				
FY23 Electric \$/GSF = \$ 0.66		FY23 Thermal \$/GSF = \$ 0.45		FY23 Energy \$/GSF = \$ 1.10		05-23 kwh -23.5%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	244,979	74,564	26,898	101,462	0.0%	48.12	100.0%	100.0%	101,462	0.0%
FY06	244,979	70,361	28,819	99,180	-2.2%	48.65	97.2%	98.7%	96,849	-4.5%
FY07	244,979	69,028	27,244	96,272	-5.1%	47.46	95.3%	99.7%	92,938	-8.4%
FY08	244,979	73,870	26,336	100,207	-1.2%	46.19	85.8%	98.1%	89,240	-12.0%
FY09	244,979	77,043	26,286	103,329	1.8%	45.66	87.1%	99.5%	93,248	-8.1%
FY10	244,979	68,681	25,092	93,773	-7.6%	47.10	95.0%	100.2%	90,419	-10.9%
FY11	244,979	71,129	26,863	97,992	-3.4%	46.81	93.1%	99.7%	93,007	-8.3%
FY12	244,979	63,083	27,856	90,939	-10.4%	51.51	110.5%	97.9%	96,976	-4.4%
FY13	244,979	84,382	28,809	113,190	11.6%	47.29	94.5%	99.2%	108,342	6.8%
FY14	244,979	87,340	25,271	112,611	11.0%	44.58	84.0%	100.5%	98,742	-2.7%
FY15	244,979	86,930	23,698	110,628	9.0%	45.84	88.8%	100.3%	100,985	-0.5%
FY16	244,979	71,398	23,945	95,343	-6.0%	49.68	105.7%	99.4%	99,294	-2.1%
FY17	244,979	72,636	23,706	96,342	-5.0%	49.72	106.3%	98.8%	100,639	-0.8%
FY18	244,979	81,231	23,470	104,701	3.2%	46.66	89.0%	99.5%	95,631	-5.7%
FY19	244,979	83,280	16,719	99,999	-1.4%	45.88	88.7%	100.6%	90,719	-10.6%
FY20	244,979	67,516	18,381	85,897	-15.3%	48.07	96.3%	99.3%	83,260	-17.9%
FY21	244,979	63,503	16,494	79,997	-21.2%	47.61	94.1%	97.9%	75,886	-25.2%
FY22	244,979	73,644	21,158	94,802	-6.6%	48.04	91.8%	97.7%	88,246	-13.0%
FY23	244,979	75,064	20,498	95,562	-5.8%	48.64	100.1%	100.3%	95,738	-5.6%

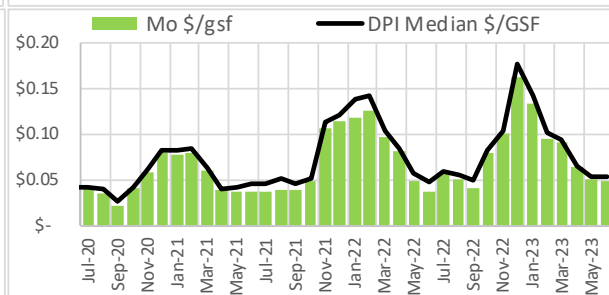
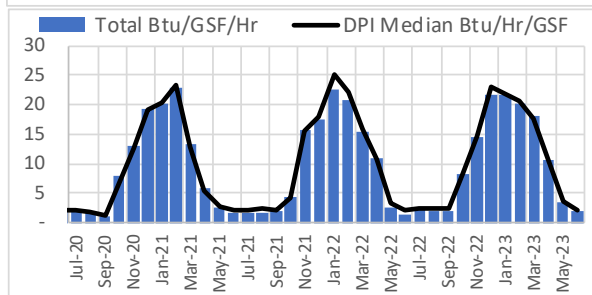
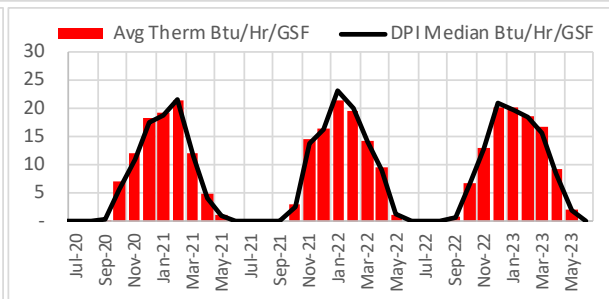
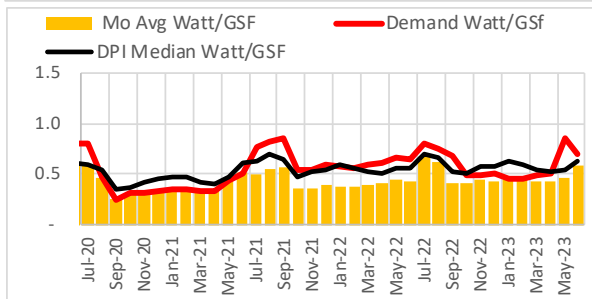
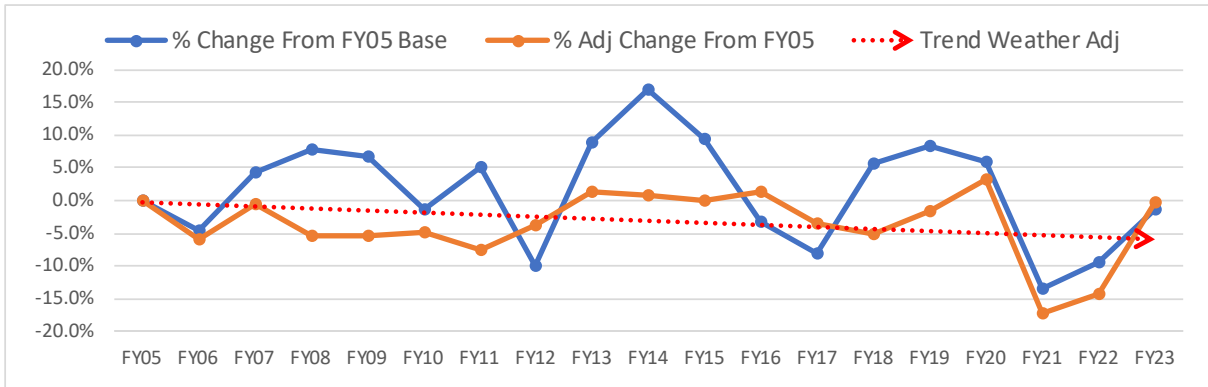
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DPI-Janesville Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.23		FY23 Therm/GSF = 0.78		FY23 Total Btu/GSF = 92,512		05-23 Thm 6.2%				
FY23 Electric \$/GSF = \$ 0.50		FY23 Thermal \$/GSF = \$ 0.48		FY23 Energy \$/GSF = \$ 0.97		05-23 kwh -25.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	196,204	74,458	19,222	93,680	0.0%	48.12	100.0%	100.0%	93,680	0.0%
FY06	196,204	70,768	18,642	89,410	-4.6%	48.65	98.5%	99.5%	88,238	-5.8%
FY07	196,204	80,169	17,460	97,630	4.2%	47.46	94.5%	99.2%	93,108	-0.6%
FY08	196,204	83,339	17,702	101,041	7.9%	46.19	85.8%	97.6%	88,770	-5.2%
FY09	196,204	83,937	16,172	100,109	6.9%	45.66	86.6%	98.9%	88,662	-5.4%
FY10	196,204	75,780	16,547	92,327	-1.4%	47.10	95.6%	100.4%	89,076	-4.9%
FY11	196,204	80,341	18,133	98,474	5.1%	46.81	86.3%	95.9%	86,703	-7.4%
FY12	196,204	68,052	16,366	84,418	-9.9%	51.51	108.6%	99.5%	90,208	-3.7%
FY13	196,204	86,319	15,780	102,099	9.0%	47.29	91.7%	99.1%	94,836	1.2%
FY14	196,204	93,100	16,520	109,620	17.0%	44.58	83.9%	98.4%	94,409	0.8%
FY15	196,204	86,668	15,725	102,393	9.3%	45.84	90.1%	99.4%	93,700	0.0%
FY16	196,204	74,848	15,696	90,544	-3.3%	49.68	106.0%	99.5%	94,924	1.3%
FY17	196,204	70,122	16,111	86,234	-7.9%	49.72	106.4%	98.7%	90,470	-3.4%
FY18	196,204	83,178	15,928	99,106	5.8%	46.66	88.1%	98.7%	89,007	-5.0%
FY19	196,204	87,804	13,771	101,575	8.4%	45.88	89.4%	99.6%	92,197	-1.6%
FY20	196,204	84,825	14,366	99,191	5.9%	48.07	97.2%	99.3%	96,682	3.2%
FY21	196,204	69,632	11,468	81,100	-13.4%	47.61	95.5%	97.3%	77,636	-17.1%
FY22	196,204	72,061	12,899	84,960	-9.3%	48.04	94.0%	98.7%	80,445	-14.1%
FY23	196,204	78,080	14,432	92,512	-1.2%	48.64	101.2%	99.7%	93,431	-0.3%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

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## SCOPE

Includes the Wisconsin Veterans Home at King the long term and rehabilitative care facility caring for veterans, a veteran's spouse, the surviving spouse of a veteran, and Gold Star Parents (parents who have lost a son or daughter in combat)

*Review Buildings Demolished and New Construction FY22-FY23*

## ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 4.3 percent increase**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 3.1 percent increase**

Energy use (BTU/GSF/Yr) for FY23 increase 3.1 percent from the previous fiscal year, FY22.

*Average Annual Change - Weather Adjusted: 0.3 percent increase per year.*

On average, energy use (BTU/GSF/Yr) has increase 0.3 percent since the base year, FY05.

## GSF AND CONSUMPTION STATISTICS

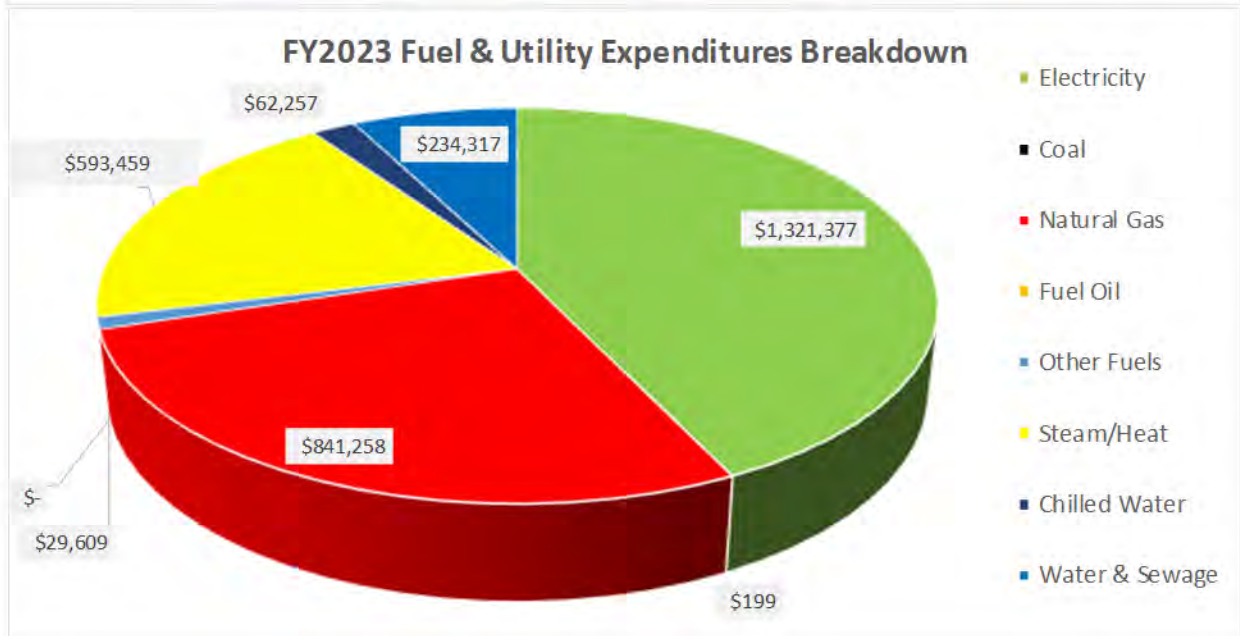
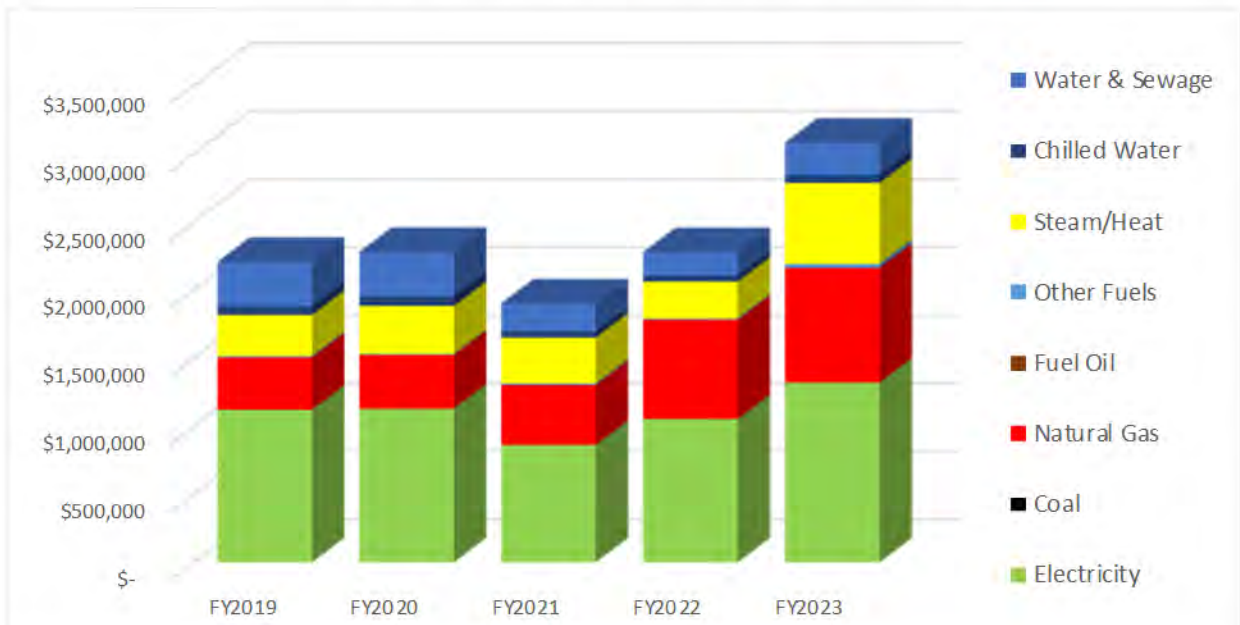
*GSF Change from Base: 0 percent increase.*

Gross square footage (GSF) has not changed from the base fiscal year, FY05.

*Consumption Change from Base: 100 percent decrease.*

Total consumption was 100 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 4.3 percent greater than in the base year when adjusted for weather compared to FY05.

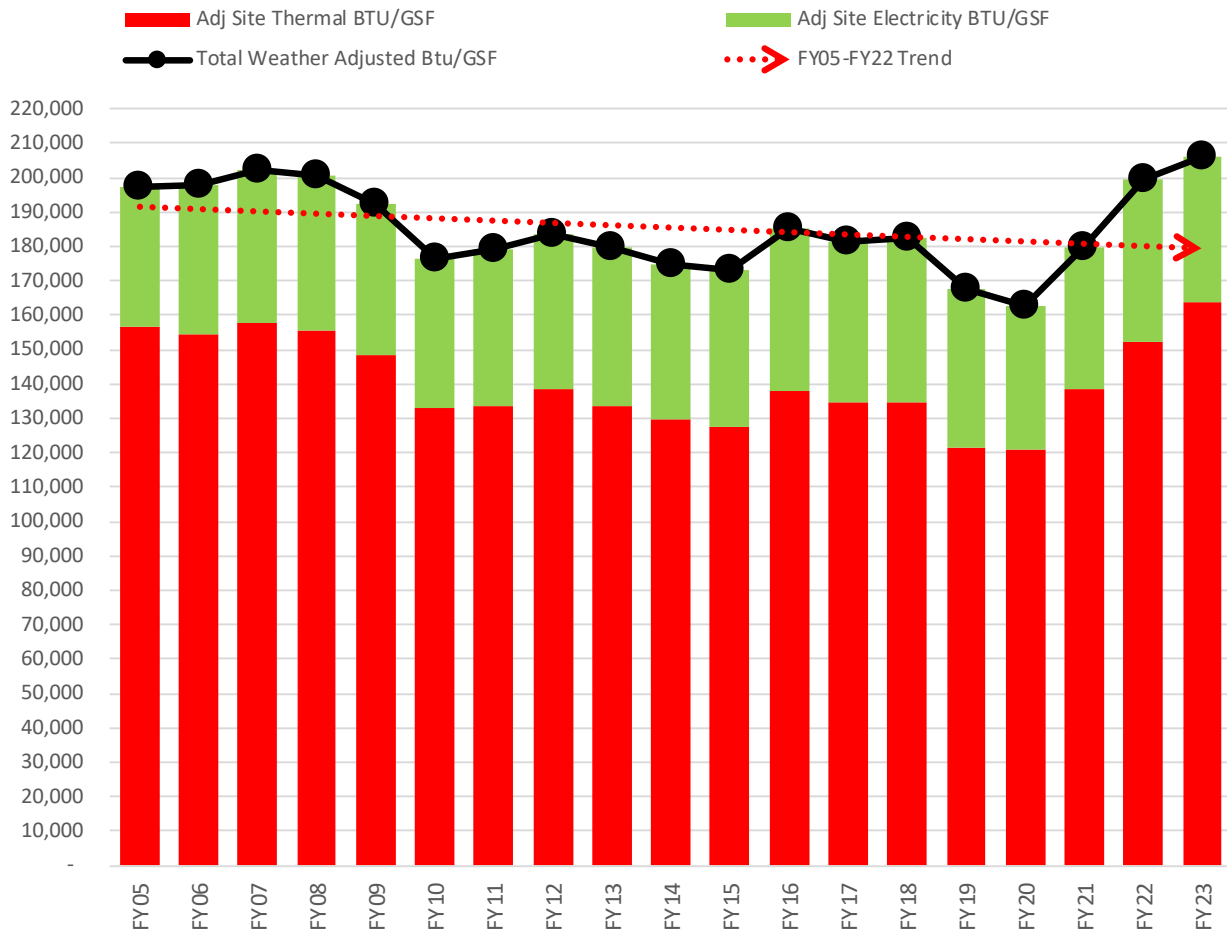
Veterans Affairs, Department of					
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 1,121,610	\$ 1,128,968	\$ 863,275	\$ 1,053,258	\$ 1,321,377
Coal	\$ -	\$ -	\$ -	\$ -	\$ 199
Natural Gas	\$ 383,190	\$ 394,606	\$ 439,783	\$ 728,322	\$ 841,258
Fuel Oil	\$ -	\$ 306	\$ -	\$ -	\$ -
Other Fuels	\$ 10,126	\$ 6,592	\$ 11,696	\$ 8,576	\$ 29,609
Steam/Heat	\$ 301,074	\$ 351,778	\$ 335,263	\$ 270,054	\$ 593,459
Chilled Water	\$ 65,024	\$ 71,889	\$ 46,738	\$ 46,076	\$ 62,257
Water & Sewage	\$ 325,467	\$ 325,564	\$ 205,137	\$ 170,613	\$ 234,317
<b>Total Utilities</b>	<b>\$ 2,206,490</b>	<b>\$ 2,279,701</b>	<b>\$ 1,901,892</b>	<b>\$ 2,276,898</b>	<b>\$ 3,082,477</b>



### DVA Fiscal Year 2023 Total State Agency Total (FY2005 Base)

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	733,728	156,662	40,749	197,411	0.0%	46.04	100.0%	100.0%	197,411	0.0%
FY06	733,728	148,953	43,635	192,588	-2.4%	47.49	103.8%	99.3%	197,869	0.2%
FY07	733,728	154,261	44,374	198,635	0.6%	46.81	102.4%	99.6%	202,105	2.4%
FY08	733,728	162,343	45,139	207,482	5.1%	44.51	95.9%	99.1%	200,381	1.5%
FY09	733,728	157,632	44,029	201,661	2.2%	43.51	94.0%	99.9%	192,177	-2.7%
FY10	733,728	133,891	43,308	177,199	-10.2%	45.49	99.3%	100.5%	176,469	-10.6%
FY11	733,728	142,187	45,433	187,620	-5.0%	43.59	94.1%	100.3%	179,392	-9.1%
FY12	733,728	128,442	45,496	173,938	-11.9%	49.50	108.0%	99.0%	183,798	-6.9%
FY13	733,728	140,005	45,722	185,726	-5.9%	44.37	95.5%	100.1%	179,551	-9.0%
FY14	733,728	147,437	45,185	192,623	-2.4%	41.62	87.9%	99.6%	174,574	-11.6%
FY15	733,728	134,553	45,441	179,994	-8.8%	43.36	94.6%	100.8%	173,116	-12.3%
FY16	733,728	133,028	47,139	180,168	-8.7%	47.34	103.8%	100.0%	185,282	-6.1%
FY17	733,728	130,932	46,822	177,753	-10.0%	47.13	102.9%	99.7%	181,364	-8.1%
FY18	733,728	139,595	47,896	187,491	-5.0%	44.30	96.3%	100.1%	182,393	-7.6%
FY19	733,728	128,343	45,909	174,252	-11.7%	43.35	94.8%	100.5%	167,749	-15.0%
FY20	733,728	122,167	41,684	163,851	-17.0%	45.35	98.9%	100.1%	162,534	-17.7%
FY21	733,728	137,835	41,583	179,418	-9.1%	45.89	100.5%	99.5%	179,812	-8.9%
FY22	733,728	156,013	47,807	203,819	3.2%	44.68	97.5%	99.8%	199,804	1.2%
FY23	733,728	153,565	41,868	195,433	-1.0%	51.09	106.8%	100.2%	205,992	4.3%

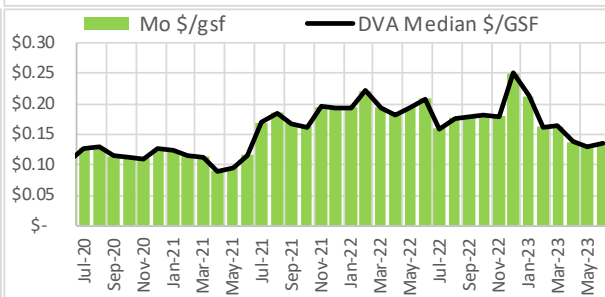
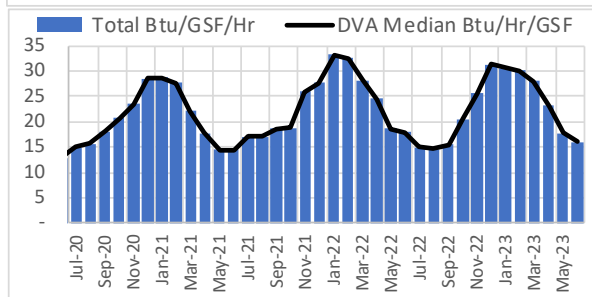
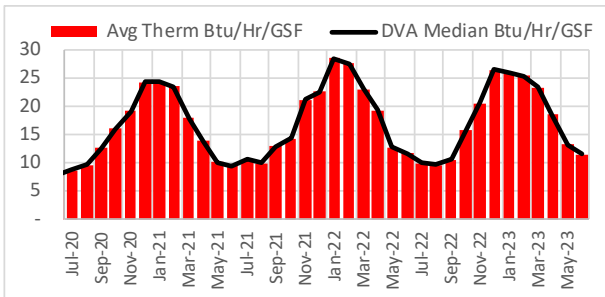
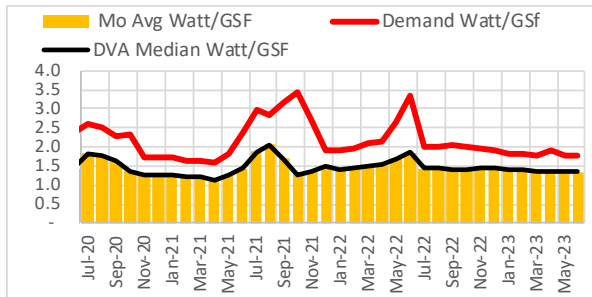
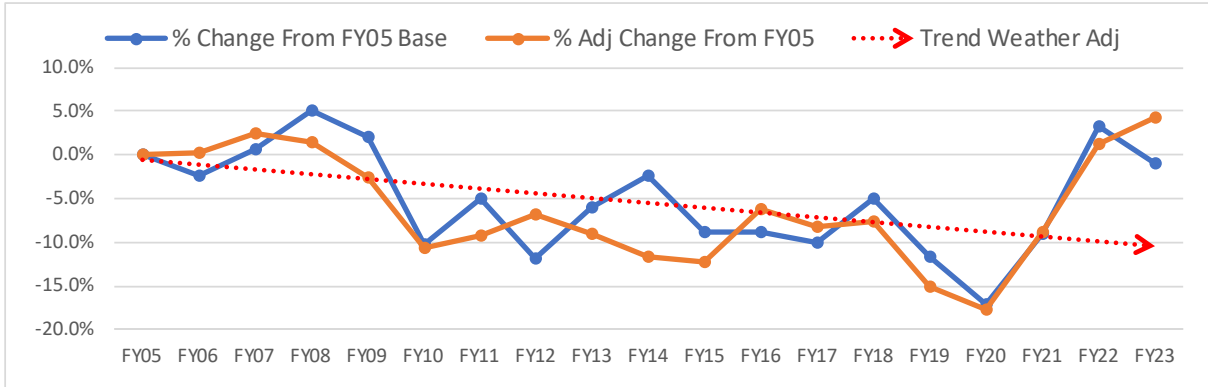
### Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)



### DVA-King Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 12.27		FY23 Therm/GSF = 1.54		FY23 Total Btu/GSF = 195,433		05-23 Thm 4.7%				
FY23 Electric \$/GSF = \$ 1.14		FY23 Thermal \$/GSF = \$ 0.92		FY23 Energy \$/GSF = \$ 2.06		05-23 kwh 3.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	733,728	156,662	40,749	197,411	0.0%	46.04	100.0%	100.0%	197,411	0.0%
FY06	733,728	148,953	43,635	192,588	-2.4%	47.49	103.8%	99.3%	197,869	0.2%
FY07	733,728	154,261	44,374	198,635	0.6%	46.81	102.4%	99.6%	202,105	2.4%
FY08	733,728	162,343	45,139	207,482	5.1%	44.51	95.9%	99.1%	200,381	1.5%
FY09	733,728	157,632	44,029	201,661	2.2%	43.51	94.0%	99.9%	192,177	-2.7%
FY10	733,728	133,891	43,308	177,199	-10.2%	45.49	99.3%	100.5%	176,469	-10.6%
FY11	733,728	142,187	45,433	187,620	-5.0%	43.59	94.1%	100.3%	179,392	-9.1%
FY12	733,728	128,442	45,496	173,938	-11.9%	49.50	108.0%	99.0%	183,798	-6.9%
FY13	733,728	140,005	45,722	185,726	-5.9%	44.37	95.5%	100.1%	179,551	-9.0%
FY14	733,728	147,437	45,185	192,623	-2.4%	41.62	87.9%	99.6%	174,574	-11.6%
FY15	733,728	134,553	45,441	179,994	-8.8%	43.36	94.6%	100.8%	173,116	-12.3%
FY16	733,728	133,028	47,139	180,168	-8.7%	47.34	103.8%	100.0%	185,282	-6.1%
FY17	733,728	130,932	46,822	177,753	-10.0%	47.13	102.9%	99.7%	181,364	-8.1%
FY18	733,728	139,595	47,896	187,491	-5.0%	44.30	96.3%	100.1%	182,393	-7.6%
FY19	733,728	128,343	45,909	174,252	-11.7%	43.35	94.8%	100.5%	167,749	-15.0%
FY20	733,728	122,167	41,684	163,851	-17.0%	45.35	98.9%	100.1%	162,534	-17.7%
FY21	733,728	137,835	41,583	179,418	-9.1%	45.89	100.5%	99.5%	179,812	-8.9%
FY22	733,728	156,013	47,807	203,819	3.2%	44.68	97.5%	99.8%	199,804	1.2%
FY23	733,728	153,565	41,868	195,433	-1.0%	51.09	106.8%	100.2%	205,992	4.3%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

## Department of Natural Resources



### SCOPE

Includes the larger Department of Natural Resources facilities: DNR-South Central Office Madison; DNR-Darwin Road Madison; DNR-Green Bay Office (New FY2306); DNR-Tomahawk and DNR-Southeast Office (Milwaukee).

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 25.4 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 3.8 percent decrease**

Energy use (BTU/GSF/Yr) for FY23 decrease 3.8 percent from the previous fiscal year, FY22.

***Average Annual Change - Weather Adjusted: 1.7 percent decrease per year.***

On average, energy use (BTU/GSF/Yr) has decrease 1.7 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

***GSF Change from Base: -9.4 percent decrease.***

Gross square footage (GSF) has decreased 9.4% from the base fiscal year, FY05.

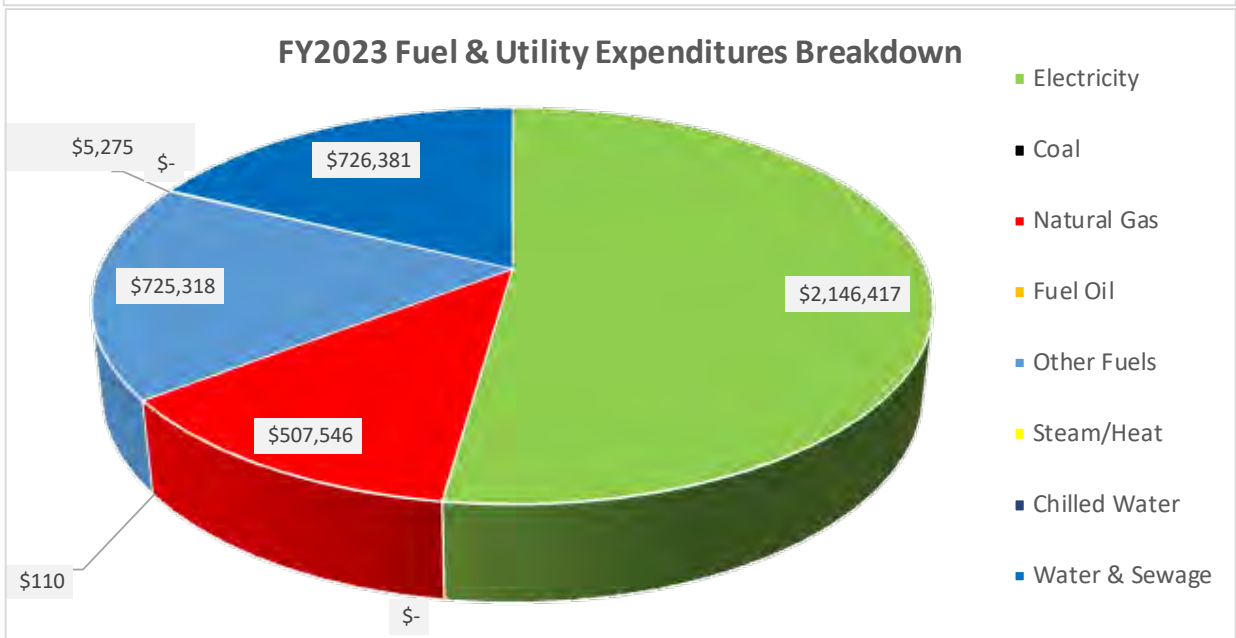
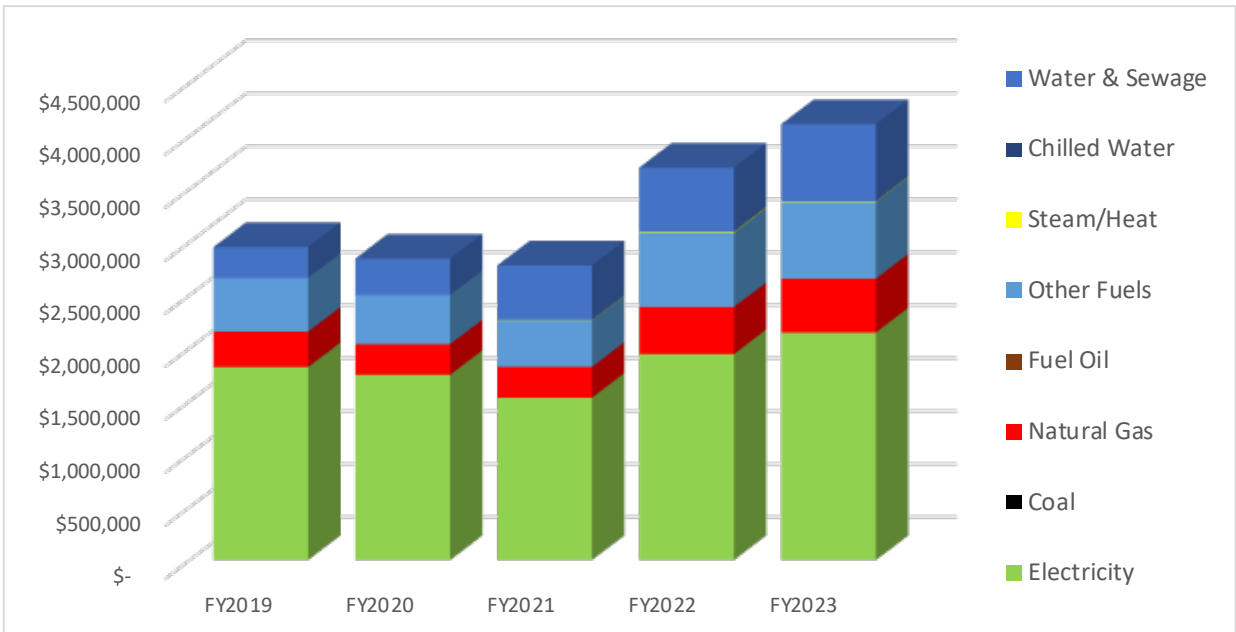
***Consumption Change from Base: 33.1 percent decrease.***

Total consumption was 33.1 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 32.3 percent less than in the base year when adjusted for weather compared to FY05.



Natural Resources, Department of

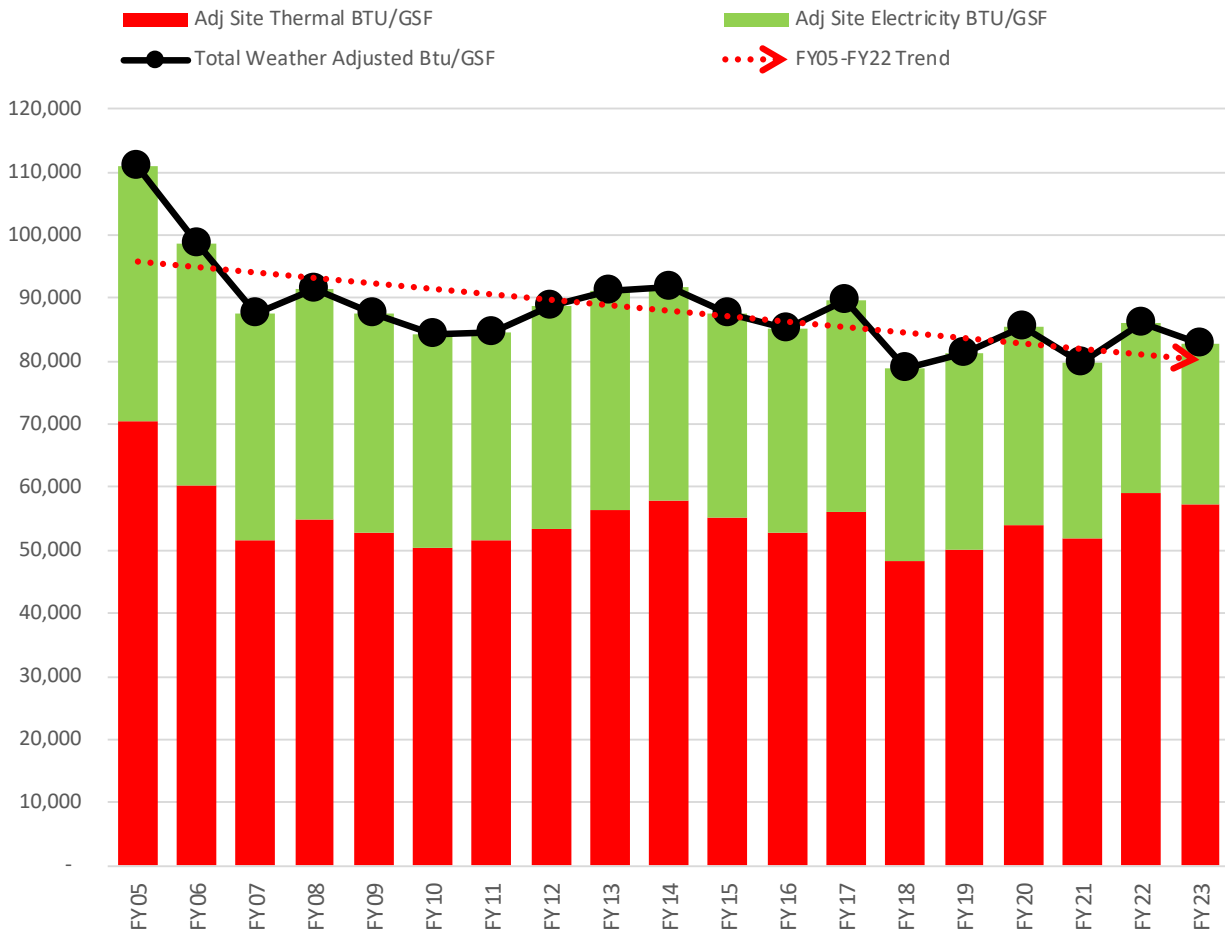
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 1,820,868	\$ 1,747,173	\$ 1,531,463	\$ 1,942,812	\$ 2,146,417
Coal	\$ 212	\$ 105	\$ 14	\$ -	\$ -
Natural Gas	\$ 331,256	\$ 287,683	\$ 289,964	\$ 443,384	\$ 507,546
Fuel Oil	\$ 1,825	\$ 963	\$ 510	\$ 586	\$ 110
Other Fuels	\$ 507,665	\$ 463,527	\$ 437,459	\$ 701,326	\$ 725,318
Steam/Heat	\$ -	\$ -	\$ 4,310	\$ 9,128	\$ 5,275
Chilled Water	\$ -	\$ 63	\$ -	\$ -	\$ -
Water & Sewage	\$ 290,385	\$ 344,491	\$ 515,546	\$ 605,019	\$ 726,381
<b>Total Utilities</b>	<b>\$ 2,952,211</b>	<b>\$ 2,844,005</b>	<b>\$ 2,779,267</b>	<b>\$ 3,702,254</b>	<b>\$ 4,111,047</b>



### DNR Fiscal Year 2023 Total State Agency Total (FY2005 Base)

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	143,537	70,469	40,584	111,053	0.0%	47.25	100.0%	100.0%	111,053	0.0%
FY06	178,097	58,886	38,649	97,535	-12.2%	48.05	102.4%	99.0%	98,575	-11.2%
FY07	178,097	52,646	36,033	88,678	-20.1%	46.99	98.1%	99.4%	87,445	-21.3%
FY08	178,097	60,814	37,215	98,029	-11.7%	45.48	90.2%	98.3%	91,446	-17.7%
FY09	178,097	58,113	35,021	93,134	-16.1%	44.91	90.9%	98.8%	87,432	-21.3%
FY10	178,097	50,777	33,655	84,433	-24.0%	46.93	99.5%	100.0%	84,206	-24.2%
FY11	178,097	55,525	33,682	89,207	-19.7%	45.97	92.9%	98.3%	84,708	-23.7%
FY12	178,097	49,385	35,635	85,021	-23.4%	50.55	108.4%	99.0%	88,774	-20.1%
FY13	178,097	59,759	35,031	94,790	-14.6%	46.20	94.4%	98.9%	91,052	-18.0%
FY14	178,097	67,613	34,690	102,302	-7.9%	43.25	85.4%	98.2%	91,836	-17.3%
FY15	178,097	59,191	32,330	91,521	-17.6%	44.79	93.1%	100.3%	87,512	-21.2%
FY16	178,097	49,528	32,417	81,944	-26.2%	48.84	106.8%	99.9%	85,276	-23.2%
FY17	178,097	52,615	34,354	86,969	-21.7%	49.19	106.5%	98.2%	89,765	-19.2%
FY18	178,097	51,727	30,856	82,583	-25.6%	46.10	93.6%	98.7%	78,873	-29.0%
FY19	178,097	54,372	31,465	85,837	-22.7%	45.26	92.0%	99.2%	81,264	-26.8%
FY20	178,097	53,798	31,581	85,379	-23.1%	47.24	100.2%	99.8%	85,426	-23.1%
FY21	178,097	52,245	28,539	80,785	-27.3%	47.59	99.5%	97.7%	79,870	-28.1%
FY22	130,097	61,468	27,558	89,026	-19.8%	46.48	96.2%	98.1%	86,178	-22.4%
FY23	130,097	56,112	25,808	81,920	-26.2%	47.24	101.9%	99.7%	82,900	-25.4%

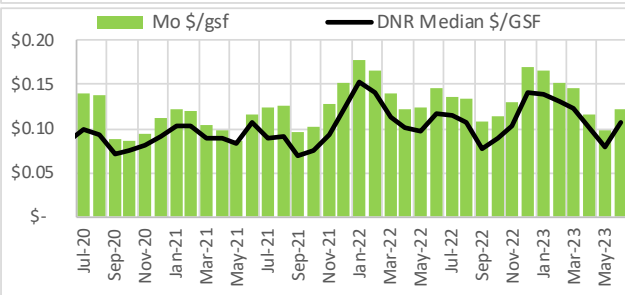
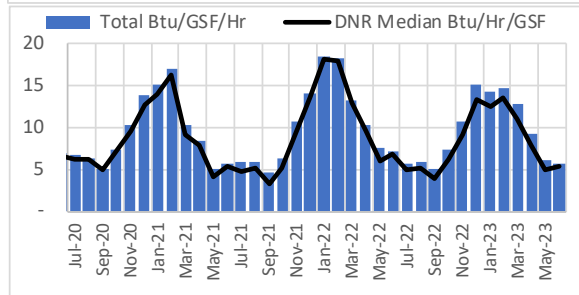
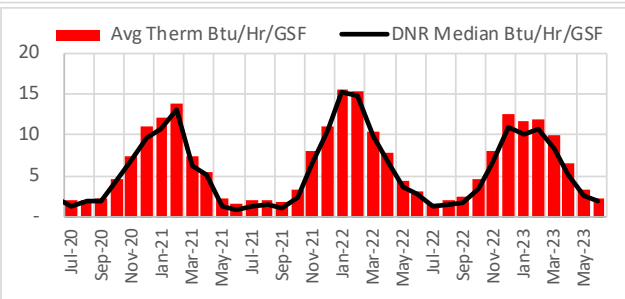
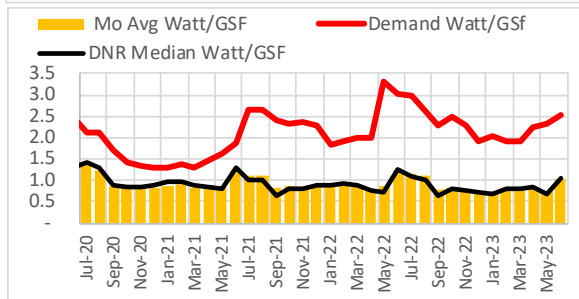
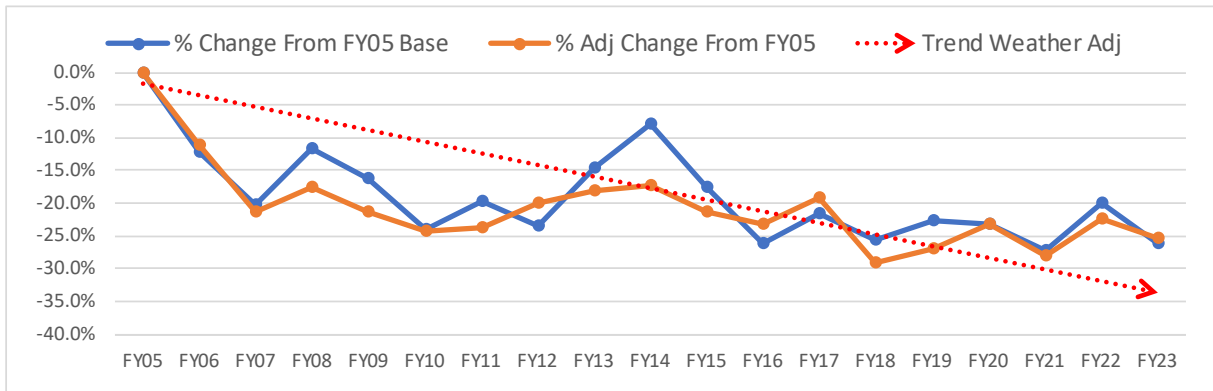
### Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)



### DNR Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 7.56		FY23 Therm/GSF = 0.56		FY23 Total Btu/GSF = 81,920		05-23 Thm -18.9%				
FY23 Electric \$/GSF = \$ 1.07		FY23 Thermal \$/GSF = \$ 0.52		FY23 Energy \$/GSF = \$ 1.59		05-23 kwh -36.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	143,537	70,469	40,584	111,053	0.0%	47.25	100.0%	100.0%	111,053	0.0%
FY06	178,097	58,886	38,649	97,535	-12.2%	48.05	102.4%	99.0%	98,575	-11.2%
FY07	178,097	52,646	36,033	88,678	-20.1%	46.99	98.1%	99.4%	87,445	-21.3%
FY08	178,097	60,814	37,215	98,029	-11.7%	45.48	90.2%	98.3%	91,446	-17.7%
FY09	178,097	58,113	35,021	93,134	-16.1%	44.91	90.9%	98.8%	87,432	-21.3%
FY10	178,097	50,777	33,655	84,433	-24.0%	46.93	99.5%	100.0%	84,206	-24.2%
FY11	178,097	55,525	33,682	89,207	-19.7%	45.97	92.9%	98.3%	84,708	-23.7%
FY12	178,097	49,385	35,635	85,021	-23.4%	50.55	108.4%	99.0%	88,774	-20.1%
FY13	178,097	59,759	35,031	94,790	-14.6%	46.20	94.4%	98.9%	91,052	-18.0%
FY14	178,097	67,613	34,690	102,302	-7.9%	43.25	85.4%	98.2%	91,836	-17.3%
FY15	178,097	59,191	32,330	91,521	-17.6%	44.79	93.1%	100.3%	87,512	-21.2%
FY16	178,097	49,528	32,417	81,944	-26.2%	48.84	106.8%	99.9%	85,276	-23.2%
FY17	178,097	52,615	34,354	86,969	-21.7%	49.19	106.5%	98.2%	89,765	-19.2%
FY18	178,097	51,727	30,856	82,583	-25.6%	46.10	93.6%	98.7%	78,873	-29.0%
FY19	178,097	54,372	31,465	85,837	-22.7%	45.26	92.0%	99.2%	81,264	-26.8%
FY20	178,097	53,798	31,581	85,379	-23.1%	47.24	100.2%	99.8%	85,426	-23.1%
FY21	178,097	52,245	28,539	80,785	-27.3%	47.59	99.5%	97.7%	79,870	-28.1%
FY22	130,097	61,468	27,558	89,026	-19.8%	46.48	96.2%	98.1%	86,178	-22.4%
FY23	130,097	56,112	25,808	81,920	-26.2%	47.24	101.9%	99.7%	82,900	-25.4%

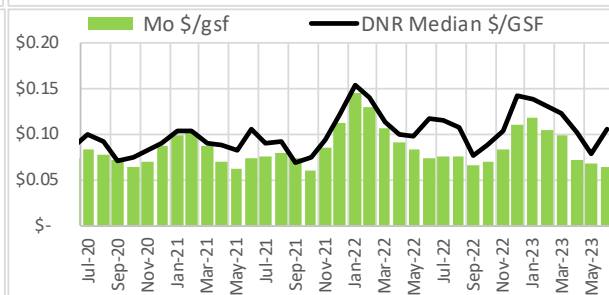
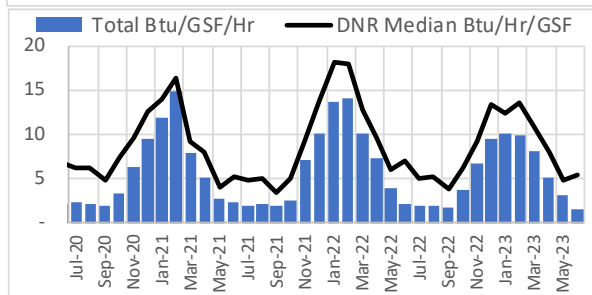
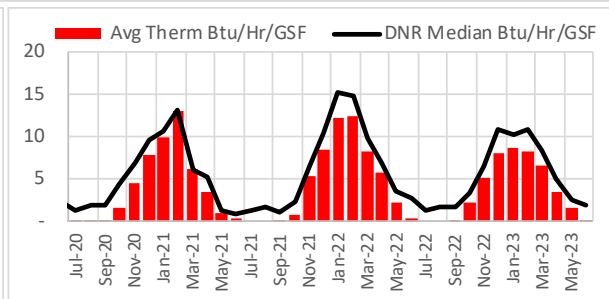
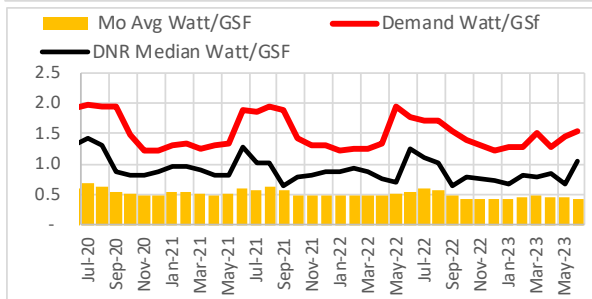
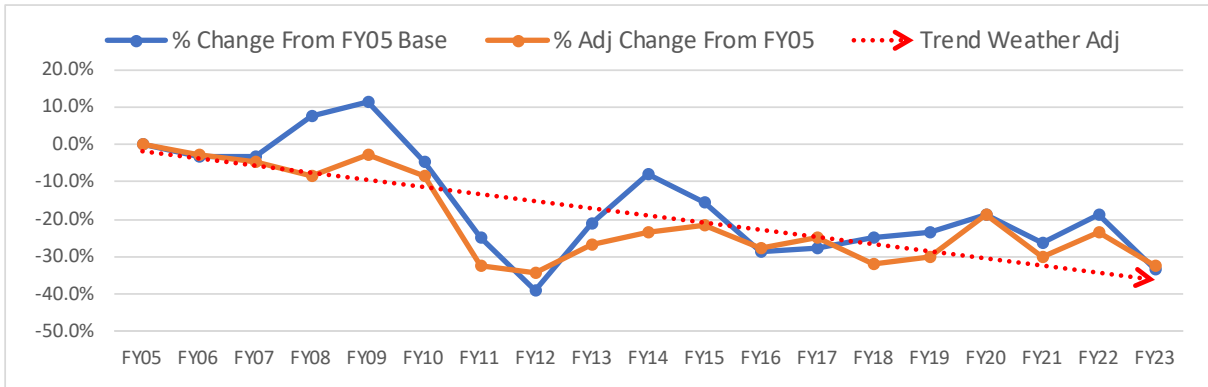
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DNR-Darwin Road Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 4.14		FY23 Therm/GSF = 0.32		FY23 Total Btu/GSF = 46,105		05-23 Thm -30.1%				
FY23 Electric \$/GSF = \$ 0.70		FY23 Thermal \$/GSF = \$ 0.31		FY23 Energy \$/GSF = \$ 1.00		05-23 kwh -36.8%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	24,820	46,623	22,302	68,925	0.0%	48.12	100.0%	100.0%	68,925	0.0%
FY06	24,820	43,866	22,777	66,642	-3.3%	48.65	101.1%	99.8%	67,076	-2.7%
FY07	24,820	44,688	22,031	66,719	-3.2%	47.46	97.8%	99.9%	65,733	-4.6%
FY08	24,820	51,369	22,736	74,105	7.5%	46.19	79.1%	99.2%	63,177	-8.3%
FY09	24,820	53,768	22,941	76,709	11.3%	45.66	81.7%	100.2%	66,942	-2.9%
FY10	24,820	44,952	20,915	65,867	-4.4%	47.10	93.7%	100.2%	63,078	-8.5%
FY11	24,820	31,265	20,476	51,741	-24.9%	46.81	84.3%	98.4%	46,505	-32.5%
FY12	24,820	22,433	19,756	42,189	-38.8%	51.51	113.7%	99.8%	45,222	-34.4%
FY13	24,820	34,456	20,075	54,530	-20.9%	47.29	88.4%	99.2%	50,385	-26.9%
FY14	24,820	41,689	21,749	63,438	-8.0%	44.58	74.7%	100.2%	52,912	-23.2%
FY15	24,820	37,404	20,977	58,381	-15.3%	45.84	89.0%	99.5%	54,175	-21.4%
FY16	24,820	29,694	19,488	49,182	-28.6%	49.68	101.9%	99.8%	49,717	-27.9%
FY17	24,820	30,437	19,444	49,881	-27.6%	49.72	106.5%	99.3%	51,719	-25.0%
FY18	24,820	32,720	18,976	51,696	-25.0%	46.66	85.4%	99.9%	46,897	-32.0%
FY19	24,820	34,139	18,616	52,755	-23.5%	45.88	86.5%	99.9%	48,122	-30.2%
FY20	24,820	37,091	19,022	56,113	-18.6%	48.07	99.6%	100.8%	56,111	-18.6%
FY21	24,820	34,634	16,317	50,951	-26.1%	47.61	93.0%	98.6%	48,312	-29.9%
FY22	24,820	40,405	15,568	55,973	-18.8%	48.04	92.6%	98.9%	52,807	-23.4%
FY23	24,820	31,972	14,133	46,105	-33.1%	48.64	101.9%	99.7%	46,672	-32.3%

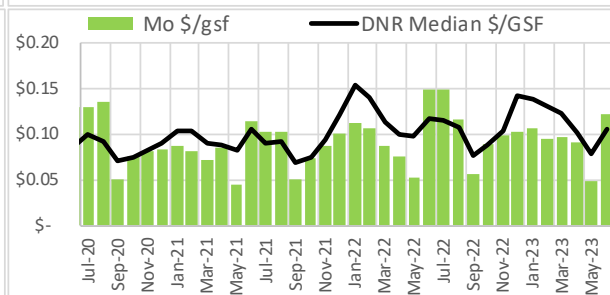
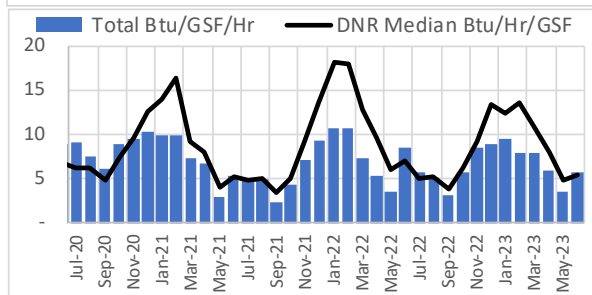
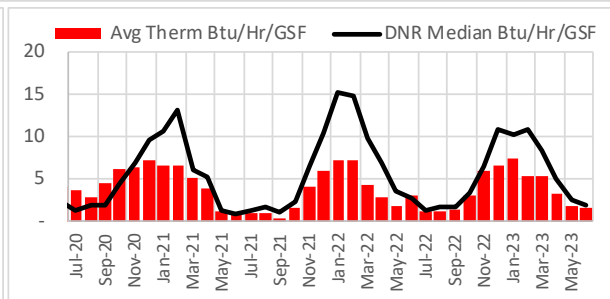
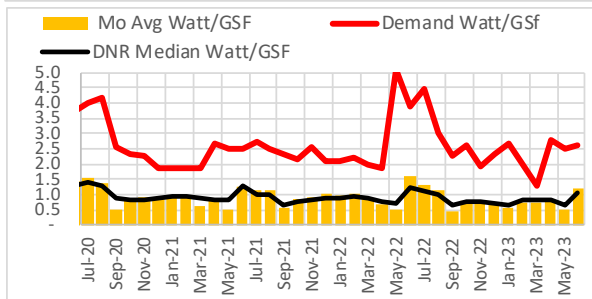
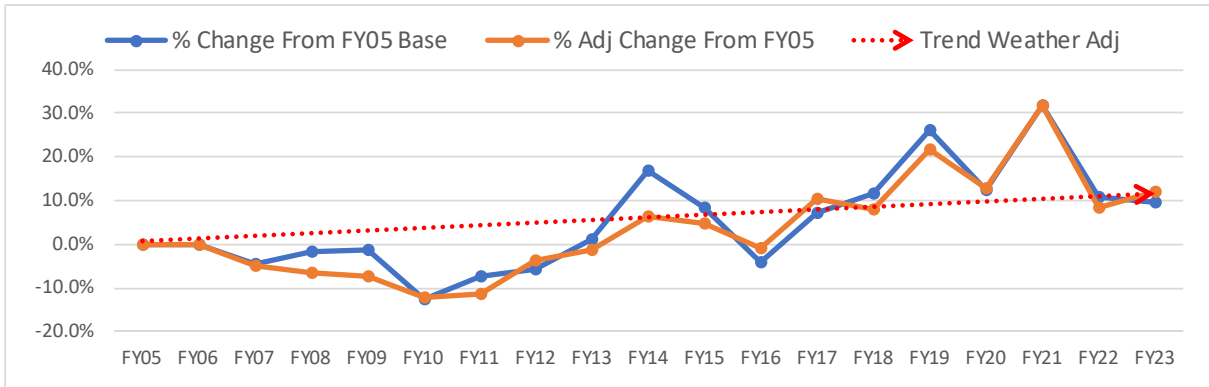
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DNR-Green Bay Fiscal Year 2023 State Facilities Energy Report (FY06 Base)

FY23 Electric kwh/GSF = 7.11		FY23 Therm/GSF = 0.32		FY23 Total Btu/GSF = 56,596		05-23 Thm				
FY23 Electric \$/GSF = \$ 0.89		FY23 Thermal \$/GSF = \$ 0.28		FY23 Energy \$/GSF = \$ 1.17		05-23 kwh				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05										
FY06	34,560	21,413	30,196	51,608	0.0%	47.27	103.8%	98.9%	52,110	0.0%
FY07	34,560	22,245	27,077	49,321	-4.4%	46.64	100.7%	100.0%	49,495	-5.0%
FY08	34,560	23,084	27,565	50,649	-1.9%	45.02	94.7%	97.4%	48,702	-6.5%
FY09	34,560	23,745	27,225	50,970	-1.2%	43.47	90.4%	98.2%	48,208	-7.5%
FY10	34,560	20,380	24,736	45,116	-12.6%	45.99	101.2%	101.7%	45,785	-12.1%
FY11	34,560	25,885	21,930	47,816	-7.3%	44.59	94.7%	98.5%	46,115	-11.5%
FY12	34,560	23,122	25,493	48,615	-5.8%	49.86	107.0%	100.2%	50,279	-3.5%
FY13	34,560	27,615	24,483	52,098	0.9%	45.29	98.0%	99.2%	51,341	-1.5%
FY14	34,560	35,477	24,798	60,275	16.8%	41.95	88.9%	96.5%	55,489	6.5%
FY15	34,560	33,515	22,464	55,979	8.5%	43.98	95.9%	100.1%	54,608	4.8%
FY16	34,560	27,640	21,836	49,476	-4.1%	48.11	106.1%	101.8%	51,564	-1.0%
FY17	34,560	29,956	25,409	55,365	7.3%	48.65	106.5%	100.7%	57,496	10.3%
FY18	34,560	34,804	22,813	57,617	11.6%	45.77	98.0%	97.2%	56,300	8.0%
FY19	34,560	39,129	25,974	65,102	26.1%	44.89	97.5%	97.6%	63,489	21.8%
FY20	34,560	32,929	25,114	58,043	12.5%	46.41	100.8%	101.6%	58,709	12.7%
FY21	34,560	40,157	27,851	68,008	31.8%	47.28	103.0%	97.9%	68,607	31.7%
FY22	34,560	28,941	28,247	57,188	10.8%	46.75	99.9%	97.4%	56,416	8.3%
FY23	34,560	32,340	24,256	56,596	9.7%	47.58	105.8%	99.4%	58,328	11.9%

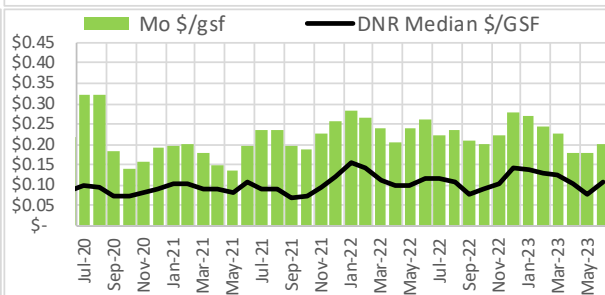
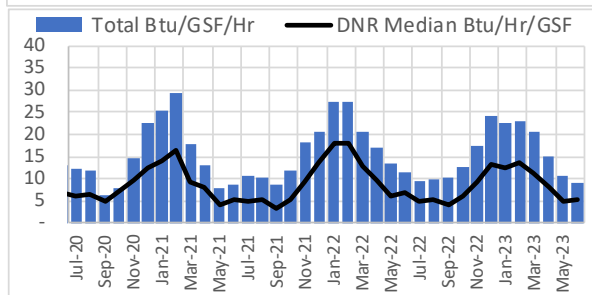
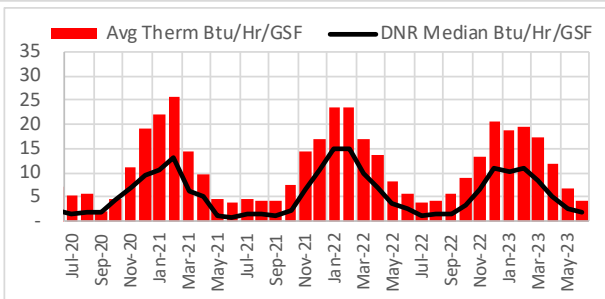
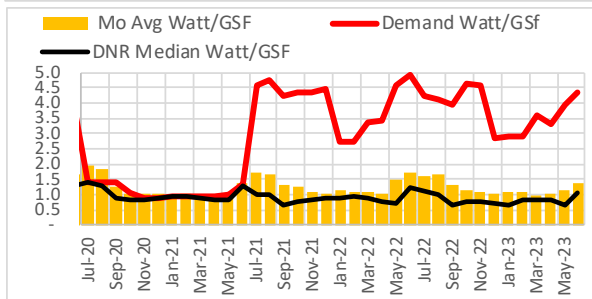
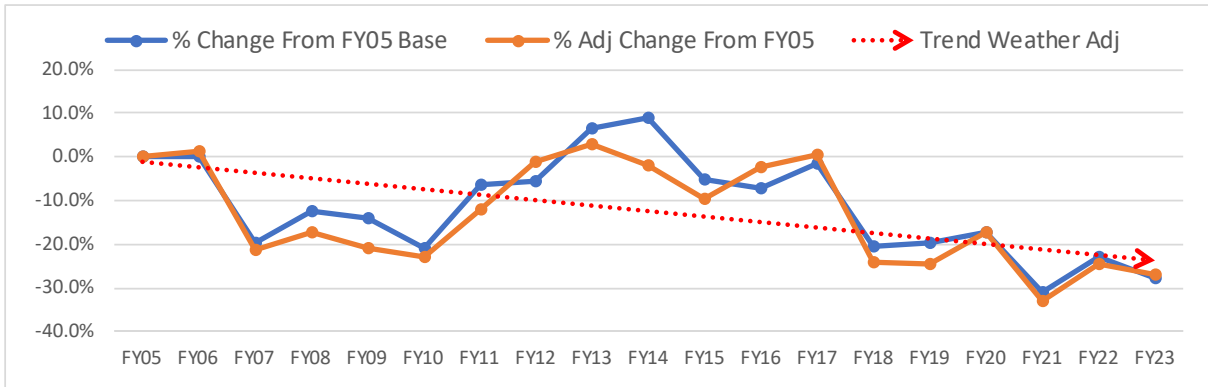
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DNR-South Central Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 10.68		FY23 Therm/GSF = 0.98		FY23 Total Btu/GSF = 134,692		05-23 Thm -23.5%				
FY23 Electric \$/GSF = \$ 1.74		FY23 Thermal \$/GSF = \$ 0.93		FY23 Energy \$/GSF = \$ 2.67		05-23 kwh -35.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	33,976	130,688	55,820	186,508	0.0%	48.12	100.0%	100.0%	186,508	0.0%
FY06	33,976	129,570	57,246	186,816	0.2%	48.65	102.3%	98.9%	189,134	1.4%
FY07	33,976	99,150	50,411	149,561	-19.8%	47.46	97.2%	99.4%	146,484	-21.5%
FY08	33,976	108,707	54,805	163,512	-12.3%	46.19	92.8%	97.9%	154,592	-17.1%
FY09	33,976	111,071	49,391	160,462	-14.0%	45.66	89.5%	97.4%	147,477	-20.9%
FY10	33,976	99,823	47,924	147,747	-20.8%	47.10	96.4%	99.7%	144,024	-22.8%
FY11	33,976	123,153	51,765	174,918	-6.2%	46.81	92.5%	97.5%	164,456	-11.8%
FY12	33,976	115,512	61,016	176,529	-5.4%	51.51	108.0%	98.2%	184,660	-1.0%
FY13	33,976	137,044	62,033	199,077	6.7%	47.29	95.5%	98.3%	191,839	2.9%
FY14	33,976	145,623	57,931	203,555	9.1%	44.58	87.1%	97.2%	183,098	-1.8%
FY15	33,976	127,213	50,043	177,256	-5.0%	45.84	93.1%	100.2%	168,536	-9.6%
FY16	33,976	118,703	54,830	173,532	-7.0%	49.68	107.4%	99.9%	182,331	-2.2%
FY17	33,976	122,605	60,787	183,392	-1.7%	49.72	104.4%	98.0%	187,505	0.5%
FY18	33,976	103,025	45,660	148,685	-20.3%	46.66	93.8%	98.5%	141,569	-24.1%
FY19	33,976	105,214	44,310	149,524	-19.8%	45.88	92.1%	99.4%	140,901	-24.5%
FY20	33,976	106,709	47,961	154,671	-17.1%	48.07	100.1%	98.7%	154,173	-17.3%
FY21	33,976	92,858	36,212	129,069	-30.8%	47.61	96.5%	97.3%	124,808	-33.1%
FY22	33,976	104,571	39,119	143,690	-23.0%	48.04	98.1%	97.4%	140,649	-24.6%
FY23	33,976	98,257	36,436	134,692	-27.8%	48.64	101.8%	99.6%	136,323	-26.9%

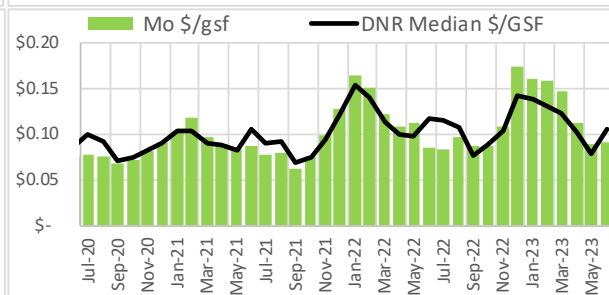
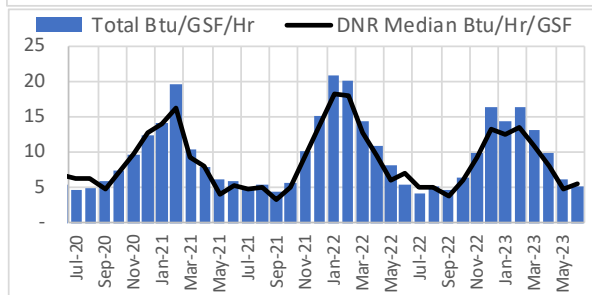
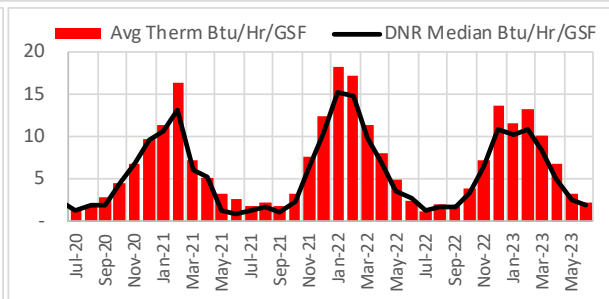
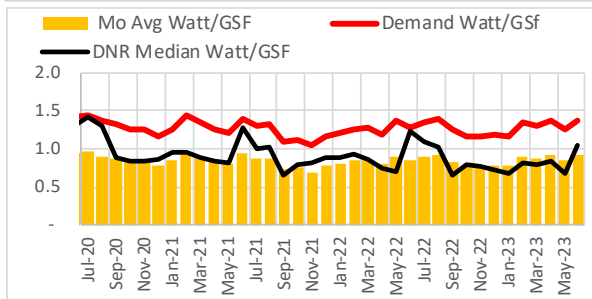
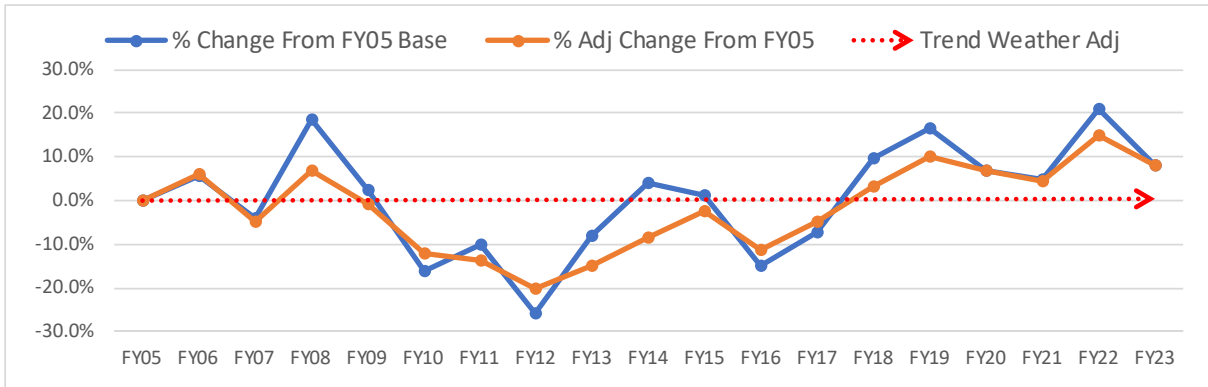
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DNR-Tomahawk Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.42		FY23 Therm/GSF = 0.56		FY23 Total Btu/GSF = 81,135		05-23 Thm 14.2%				
FY23 Electric \$/GSF = \$ 0.88		FY23 Thermal \$/GSF = \$ 0.51		FY23 Energy \$/GSF = \$ 1.39		05-23 kwh -3.3%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	36,741	48,814	26,236	75,049	0.0%	44.26	100.0%	100.0%	75,049	0.0%
FY06	36,741	52,654	26,536	79,190	5.5%	45.56	100.6%	100.2%	79,560	6.0%
FY07	36,741	47,737	24,294	72,031	-4.0%	44.50	98.6%	100.0%	71,378	-4.9%
FY08	36,741	60,931	27,939	88,870	18.4%	42.10	86.0%	99.6%	80,256	6.9%
FY09	36,741	49,901	26,866	76,768	2.3%	42.50	95.8%	99.7%	74,587	-0.6%
FY10	36,741	38,580	24,299	62,879	-16.2%	45.38	108.2%	99.8%	65,993	-12.1%
FY11	36,741	43,317	24,227	67,544	-10.0%	43.50	93.4%	100.0%	64,674	-13.8%
FY12	36,741	32,801	22,913	55,714	-25.8%	47.63	111.5%	101.9%	59,916	-20.2%
FY13	36,741	45,853	23,084	68,936	-8.1%	42.87	89.0%	99.5%	63,754	-15.1%
FY14	36,741	54,536	23,563	78,099	4.1%	39.97	82.6%	100.6%	68,764	-8.4%
FY15	36,741	52,465	23,561	76,026	1.3%	42.20	94.9%	99.7%	73,262	-2.4%
FY16	36,741	42,249	21,667	63,916	-14.8%	46.23	106.3%	100.1%	66,587	-11.3%
FY17	36,741	44,742	24,754	69,496	-7.4%	45.86	104.2%	100.2%	71,425	-4.8%
FY18	36,741	54,444	27,817	82,261	9.6%	42.67	91.5%	100.0%	77,602	3.4%
FY19	36,741	59,689	27,931	87,620	16.8%	41.78	91.5%	100.6%	82,695	10.2%
FY20	36,741	53,232	27,085	80,317	7.0%	43.78	99.5%	100.1%	80,063	6.7%
FY21	36,741	52,670	26,033	78,703	4.9%	44.64	99.7%	99.9%	78,535	4.6%
FY22	36,741	66,433	24,319	90,752	20.9%	43.09	93.6%	99.5%	86,345	15.1%
FY23	36,741	55,809	25,326	81,135	8.1%	44.12	99.9%	100.1%	81,086	8.0%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



# Agency Energy Use Summary

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## Department of Transportation



### SCOPE

Includes the larger Department of Transportation facilities: DTD 1 Madison; DTD 1, Madison Lab; DTD 1, "A" Building Madison; DTD 1, "B" Building Madison; DTD 2, West Allis; and DTD 3, Green Bay.

### ENERGY CONSUMPTION

**Total Change from Base - Weather Adjusted: 37.4 percent decrease**

Includes the major agency facilities listed in scope above.

**Latest Year Change - Weather Adjusted: 7.6 percent decrease**

Energy use (BTU/GSF/Yr) for FY23 decrease 7.6 percent from the previous fiscal year, FY22.

**Average Annual Change - Weather Adjusted: 2.5 percent decrease per year.**

On average, energy use (BTU/GSF/Yr) has decrease 2.5 percent since the base year, FY05.

### GSF AND CONSUMPTION STATISTICS

**GSF Change from Base: 0 percent increase.**

Gross square footage (GSF) has not changed from the base fiscal year, FY05.

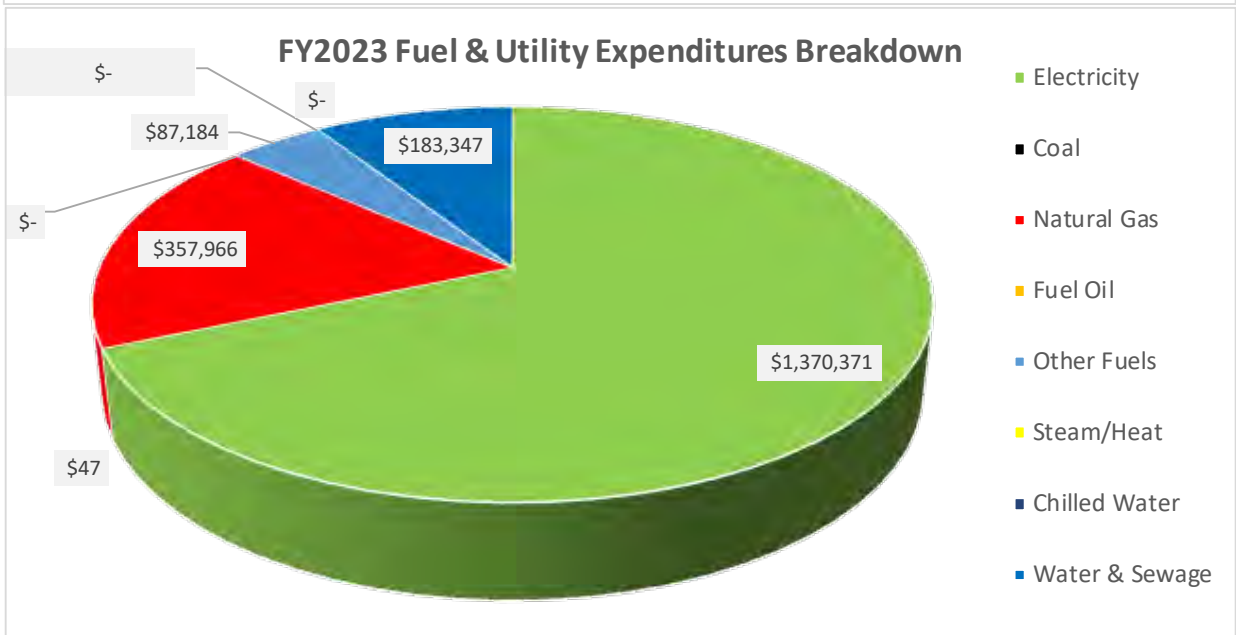
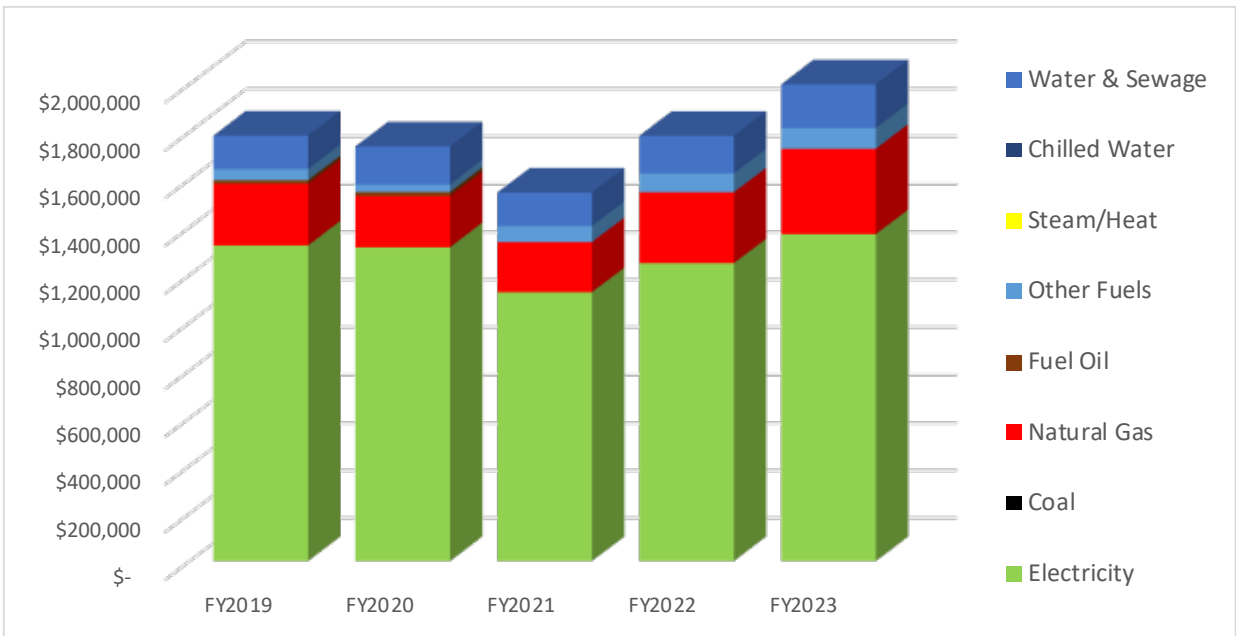
**Consumption Change from Base: 38.3 percent decrease.**

Total consumption was 38.3 percent less when compared to FY05. Total energy (million BTU) purchases in FY23 were 37.4 percent less than in the base year when adjusted for weather compared to FY05.



**Transportation, Department of**

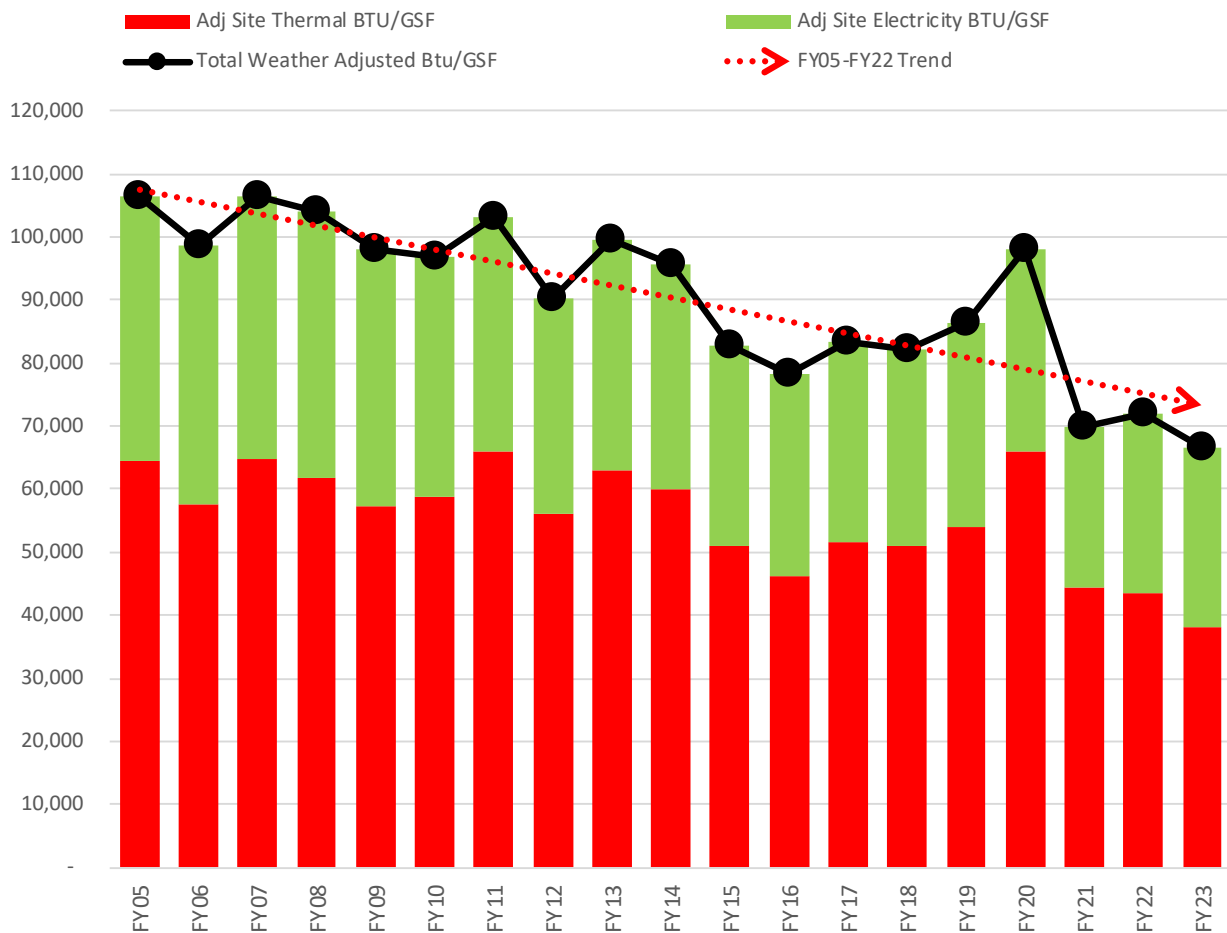
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 1,323,145	\$ 1,315,760	\$ 1,127,352	\$ 1,248,790	\$ 1,370,371
Coal	\$ -	\$ -	\$ -	\$ -	\$ 47
Natural Gas	\$ 258,768	\$ 214,830	\$ 209,776	\$ 297,545	\$ 357,966
Fuel Oil	\$ 15,192	\$ 16,797	\$ -	\$ -	\$ -
Other Fuels	\$ 46,603	\$ 31,950	\$ 67,745	\$ 79,196	\$ 87,184
Steam/Heat	\$ -	\$ -	\$ -	\$ -	\$ -
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 140,198	\$ 158,906	\$ 139,933	\$ 157,169	\$ 183,347
<b>Total Utilities</b>	<b>\$ 1,783,906</b>	<b>\$ 1,738,242</b>	<b>\$ 1,544,806</b>	<b>\$ 1,782,700</b>	<b>\$ 1,998,916</b>



**DOT Fiscal Year 2023 Total State Agency Total (FY2005 Base)**

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	274,395	64,561	41,794	106,355	0.0%	47.81	100.0%	100.0%	106,355	0.0%
FY06	274,395	57,610	41,548	99,158	-6.8%	48.67	99.7%	99.1%	98,622	-7.3%
FY07	274,395	65,171	41,538	106,709	0.3%	47.56	99.6%	99.7%	106,336	0.0%
FY08	274,395	67,726	42,663	110,389	3.8%	46.28	91.3%	98.8%	104,005	-2.2%
FY09	274,395	62,757	40,834	103,590	-2.6%	45.56	91.1%	99.9%	97,940	-7.9%
FY10	274,395	59,383	37,503	96,886	-8.9%	47.25	99.1%	100.9%	96,704	-9.1%
FY11	274,395	70,053	37,703	107,757	1.3%	46.66	94.0%	98.8%	103,100	-3.1%
FY12	274,395	51,774	35,398	87,172	-18.0%	51.36	108.1%	97.3%	90,376	-15.0%
FY13	274,395	67,300	36,543	103,843	-2.4%	47.12	93.6%	99.7%	99,418	-6.5%
FY14	274,395	68,335	35,671	104,007	-2.2%	44.24	87.9%	99.3%	95,501	-10.2%
FY15	274,395	54,348	31,732	86,080	-19.1%	45.57	94.0%	99.9%	82,773	-22.2%
FY16	274,395	44,153	32,442	76,595	-28.0%	49.55	104.4%	99.6%	78,409	-26.3%
FY17	274,395	48,895	32,161	81,056	-23.8%	49.92	105.2%	98.8%	83,245	-21.7%
FY18	274,395	53,899	31,572	85,471	-19.6%	46.86	94.4%	99.6%	82,314	-22.6%
FY19	274,395	58,741	32,680	91,421	-14.0%	46.05	91.7%	99.7%	86,486	-18.7%
FY20	274,395	65,598	32,478	98,076	-7.8%	48.09	100.5%	99.4%	98,176	-7.7%
FY21	274,395	45,369	25,907	71,276	-33.0%	48.09	97.8%	98.5%	69,887	-34.3%
FY22	274,395	45,056	28,968	74,024	-30.4%	48.30	96.8%	97.8%	71,977	-32.3%
FY23	274,395	37,056	28,604	65,660	-38.3%	48.87	102.5%	99.8%	66,536	-37.4%

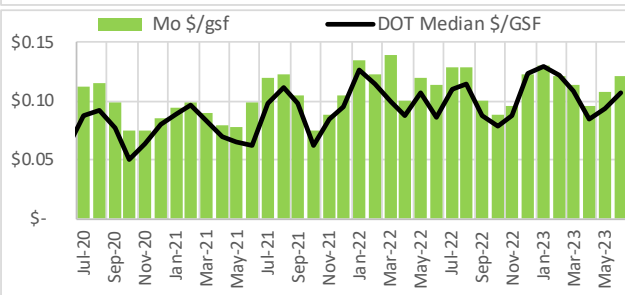
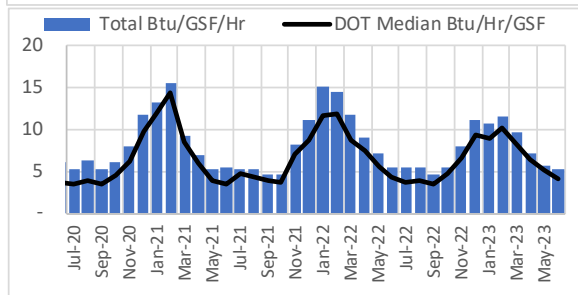
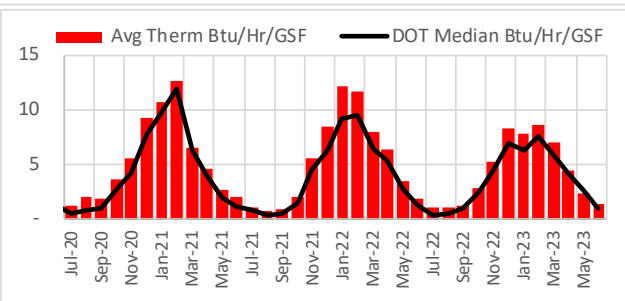
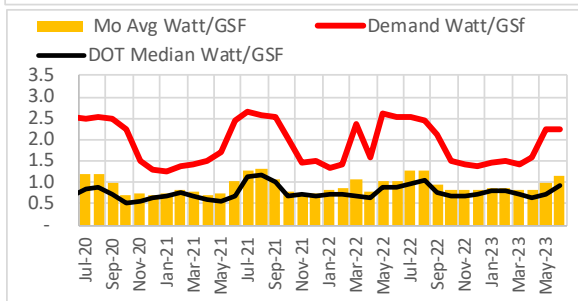
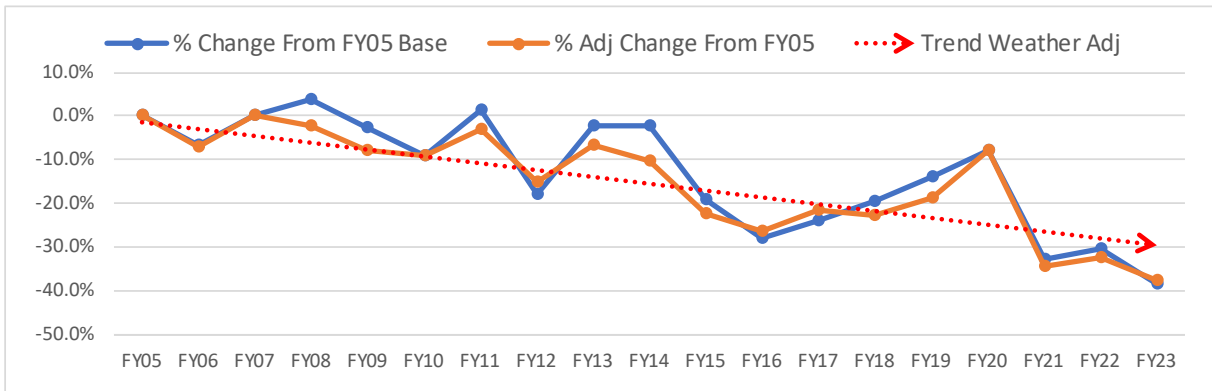
**Wisconsin State Agency Total Weather Adjusted Energy Usage (Btu/GSF)**



### DOT Fiscal Year 2023 Total State Agency Total (FY2005 Base)

FY23 Electric kwh/GSF = 8.38		FY23 Therm/GSF = 0.37		FY23 Total Btu/GSF = 65,660		05-23 Thm -41.2%				
FY23 Electric \$/GSF = \$ 1.09		FY23 Thermal \$/GSF = \$ 0.27		FY23 Energy \$/GSF = \$ 1.36		05-23 kwh -31.7%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	274,395	64,561	41,794	106,355	0.0%	47.81	100.0%	100.0%	106,355	0.0%
FY06	274,395	57,610	41,548	99,158	-6.8%	48.67	99.7%	99.1%	98,622	-7.3%
FY07	274,395	65,171	41,538	106,709	0.3%	47.56	99.6%	99.7%	106,336	0.0%
FY08	274,395	67,726	42,663	110,389	3.8%	46.28	91.3%	98.8%	104,005	-2.2%
FY09	274,395	62,757	40,834	103,590	-2.6%	45.56	91.1%	99.9%	97,940	-7.9%
FY10	274,395	59,383	37,503	96,886	-8.9%	47.25	99.1%	100.9%	96,704	-9.1%
FY11	274,395	70,053	37,703	107,757	1.3%	46.66	94.0%	98.8%	103,100	-3.1%
FY12	274,395	51,774	35,398	87,172	-18.0%	51.36	108.1%	97.3%	90,376	-15.0%
FY13	274,395	67,300	36,543	103,843	-2.4%	47.12	93.6%	99.7%	99,418	-6.5%
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FY17	274,395	48,895	32,161	81,056	-23.8%	49.92	105.2%	98.8%	83,245	-21.7%
FY18	274,395	53,899	31,572	85,471	-19.6%	46.86	94.4%	99.6%	82,314	-22.6%
FY19	274,395	58,741	32,680	91,421	-14.0%	46.05	91.7%	99.7%	86,486	-18.7%
FY20	274,395	65,598	32,478	98,076	-7.8%	48.09	100.5%	99.4%	98,176	-7.7%
FY21	274,395	45,369	25,907	71,276	-33.0%	48.09	97.8%	98.5%	69,887	-34.3%
FY22	274,395	45,056	28,968	74,024	-30.4%	48.30	96.8%	97.8%	71,977	-32.3%
FY23	274,395	37,056	28,604	65,660	-38.3%	48.87	102.5%	99.8%	66,536	-37.4%

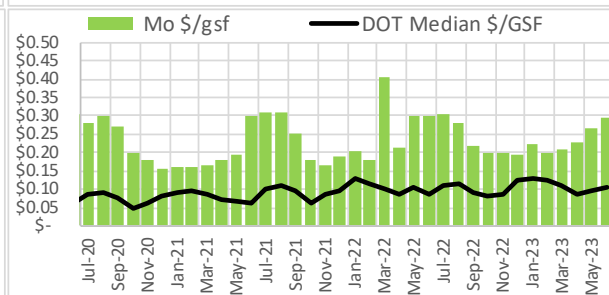
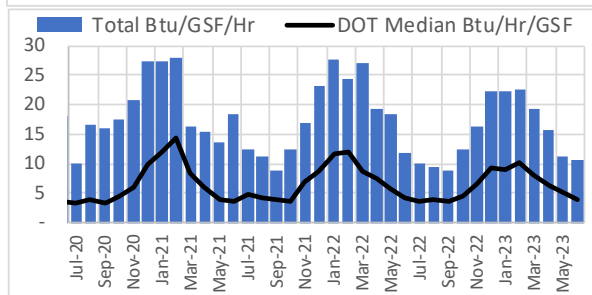
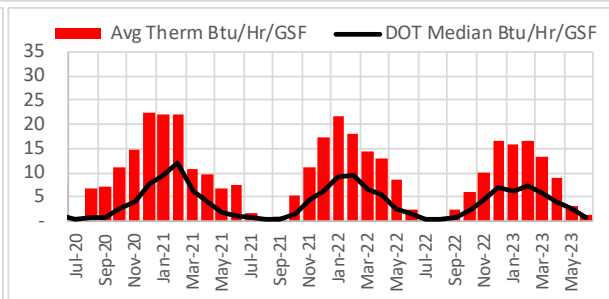
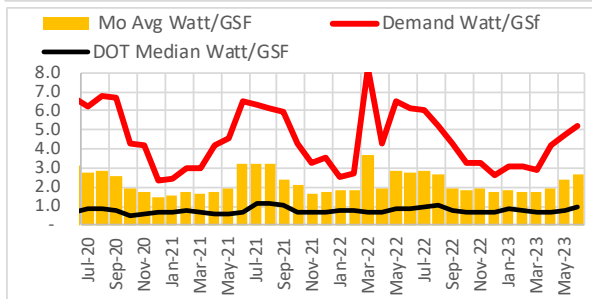
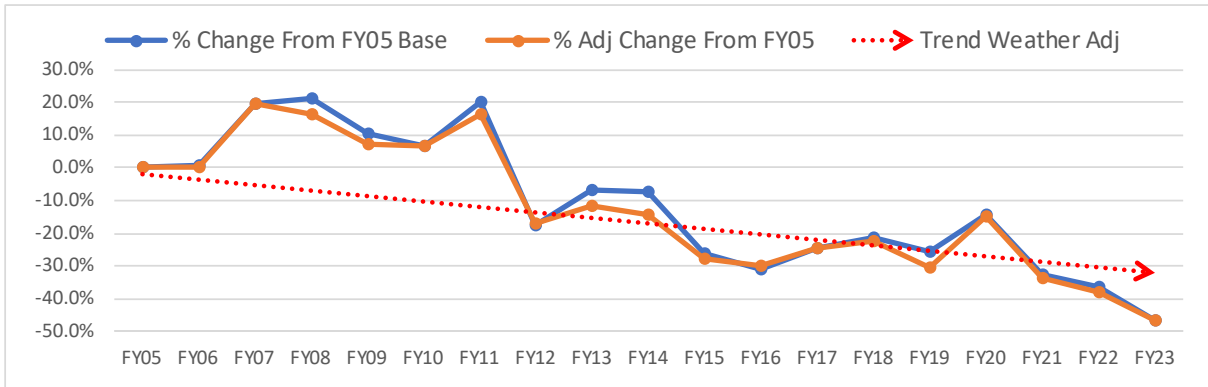
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.



### DOT-DTD 1 Lab Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 18.45		FY23 Therm/GSF = 0.69		FY23 Total Btu/GSF = 132,098		05-23 Thm -57.5%				
FY23 Electric \$/GSF = \$ 2.63		FY23 Thermal \$/GSF = \$ 0.18		FY23 Energy \$/GSF = \$ 2.81		05-23 kwh -25.0%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	43,000	162,720	83,591	246,311	0.0%	48.12	100.0%	100.0%	246,311	0.0%
FY06	43,000	163,270	84,970	248,240	0.8%	48.65	99.9%	98.3%	246,542	0.1%
FY07	43,000	204,282	90,188	294,470	19.6%	47.46	100.2%	99.9%	294,804	19.7%
FY08	43,000	207,886	91,095	298,980	21.4%	46.19	95.1%	97.4%	286,381	16.3%
FY09	43,000	186,577	85,628	272,205	10.5%	45.66	95.5%	100.7%	264,360	7.3%
FY10	43,000	176,205	87,027	263,232	6.9%	47.10	98.9%	101.5%	262,614	6.6%
FY11	43,000	206,810	89,568	296,378	20.3%	46.81	96.7%	97.4%	287,132	16.6%
FY12	43,000	126,292	77,353	203,645	-17.3%	51.51	104.5%	94.1%	204,773	-16.9%
FY13	43,000	160,174	69,784	229,958	-6.6%	47.29	92.6%	98.7%	217,246	-11.8%
FY14	43,000	154,439	73,890	228,329	-7.3%	44.58	89.4%	98.5%	210,822	-14.4%
FY15	43,000	119,664	62,463	182,127	-26.1%	45.84	96.1%	100.4%	177,765	-27.8%
FY16	43,000	102,466	67,359	169,825	-31.1%	49.68	103.8%	98.8%	172,944	-29.8%
FY17	43,000	120,664	65,374	186,038	-24.5%	49.72	101.7%	97.7%	186,554	-24.3%
FY18	43,000	132,779	61,392	194,171	-21.2%	46.66	97.3%	100.8%	191,088	-22.4%
FY19	43,000	120,285	62,694	182,979	-25.7%	45.88	89.4%	100.8%	170,727	-30.7%
FY20	43,000	142,070	69,137	211,206	-14.3%	48.07	99.1%	99.4%	209,524	-14.9%
FY21	43,000	103,284	62,688	165,972	-32.6%	47.61	97.8%	98.7%	162,859	-33.9%
FY22	43,000	83,560	72,907	156,467	-36.5%	48.04	97.4%	98.8%	153,391	-37.7%
FY23	43,000	69,135	62,963	132,098	-46.4%	48.64	100.0%	99.5%	131,825	-46.5%

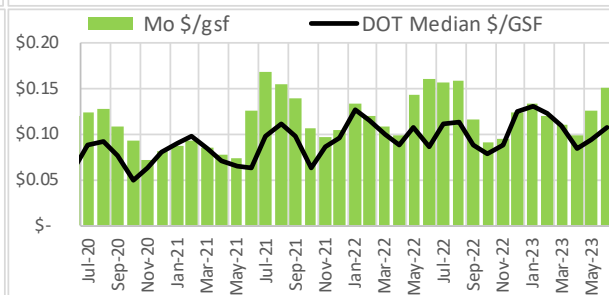
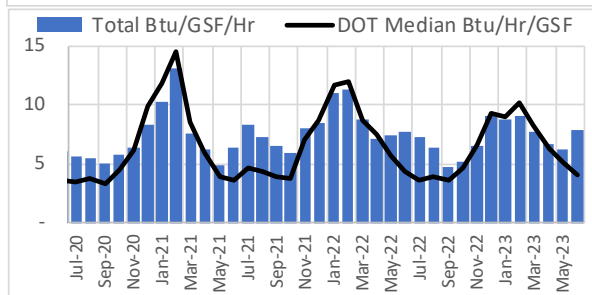
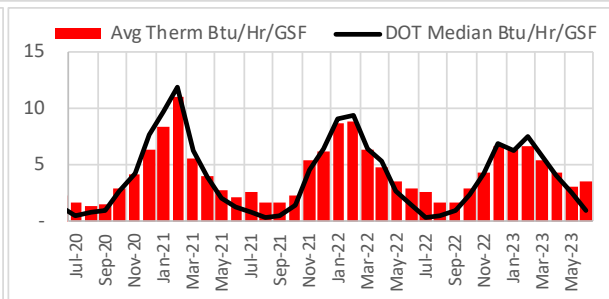
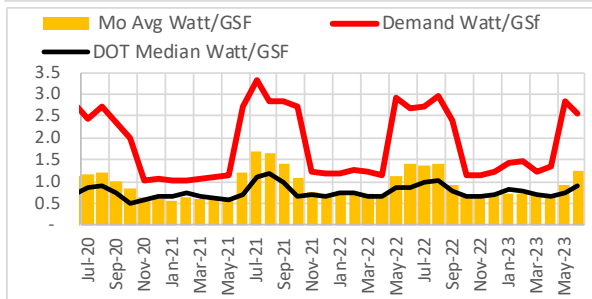
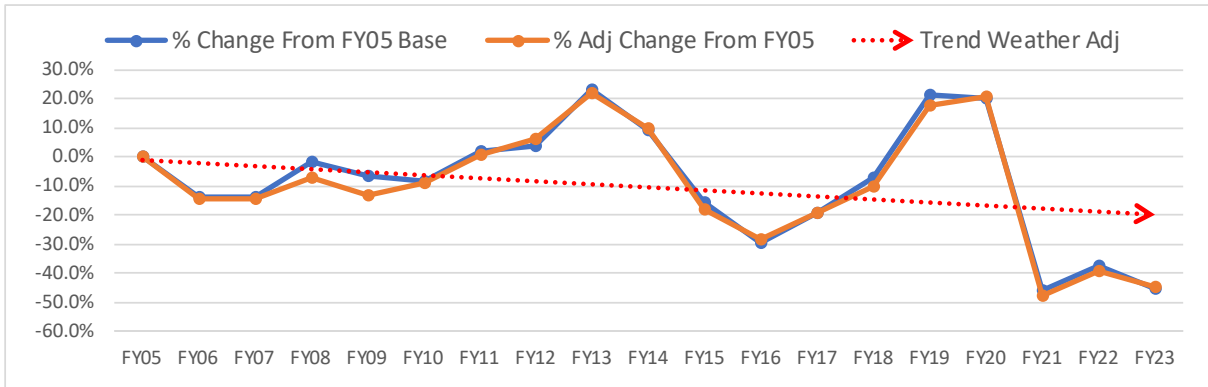
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOT-DTD 1 Madison Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 7.83		FY23 Therm/GSF = 0.36		FY23 Total Btu/GSF = 62,372		05-23 Thm -38.3%				
FY23 Electric \$/GSF = \$ 1.16		FY23 Thermal \$/GSF = \$ 0.32		FY23 Energy \$/GSF = \$ 1.48		05-23 kwh -51.9%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	56,000	58,589	55,174	113,762	0.0%	48.12	100.0%	100.0%	113,762	0.0%
FY06	56,000	47,046	51,248	98,294	-13.6%	48.65	99.8%	98.8%	97,627	-14.2%
FY07	56,000	48,837	49,591	98,427	-13.5%	47.46	98.1%	99.7%	97,349	-14.4%
FY08	56,000	58,460	53,684	112,144	-1.4%	46.19	88.6%	99.9%	105,387	-7.4%
FY09	56,000	53,853	52,546	106,399	-6.5%	45.66	86.2%	99.7%	98,819	-13.1%
FY10	56,000	50,582	53,766	104,347	-8.3%	47.10	98.4%	100.7%	103,951	-8.6%
FY11	56,000	64,737	51,597	116,334	2.3%	46.81	96.7%	100.3%	114,328	0.5%
FY12	56,000	65,209	52,985	118,195	3.9%	51.51	106.4%	97.0%	120,757	6.1%
FY13	56,000	78,796	61,133	139,929	23.0%	47.29	97.1%	101.3%	138,440	21.7%
FY14	56,000	69,321	54,971	124,292	9.3%	44.58	99.6%	101.5%	124,829	9.7%
FY15	56,000	49,730	46,348	96,078	-15.5%	45.84	93.8%	100.4%	93,164	-18.1%
FY16	56,000	36,047	44,346	80,393	-29.3%	49.68	104.5%	98.8%	81,463	-28.4%
FY17	56,000	47,428	44,581	92,009	-19.1%	49.72	102.0%	98.1%	92,104	-19.0%
FY18	56,000	57,443	48,076	105,519	-7.2%	46.66	95.0%	99.7%	102,487	-9.9%
FY19	56,000	83,108	55,125	138,233	21.5%	45.88	94.0%	100.6%	133,596	17.4%
FY20	56,000	88,784	48,139	136,922	20.4%	48.07	101.4%	98.5%	137,396	20.8%
FY21	56,000	37,420	24,235	61,655	-45.8%	47.61	95.5%	98.4%	59,598	-47.6%
FY22	56,000	39,629	31,597	71,226	-37.4%	48.04	97.6%	96.3%	69,100	-39.3%
FY23	56,000	35,661	26,710	62,372	-45.2%	48.64	101.4%	99.4%	62,722	-44.9%

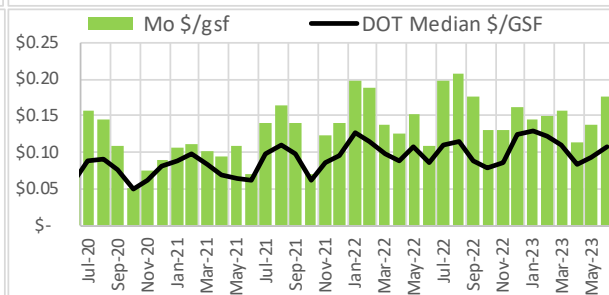
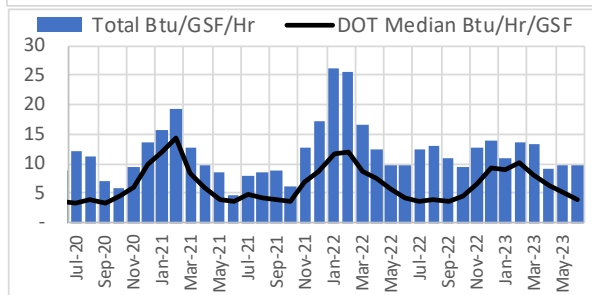
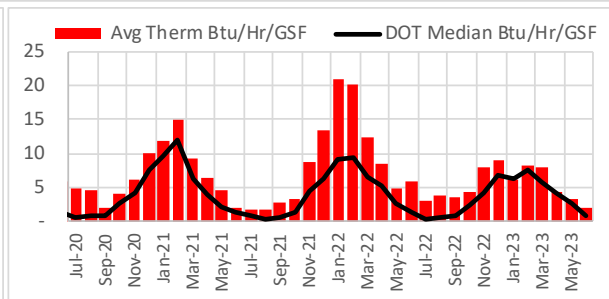
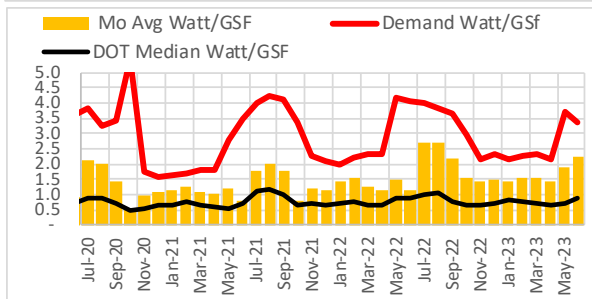
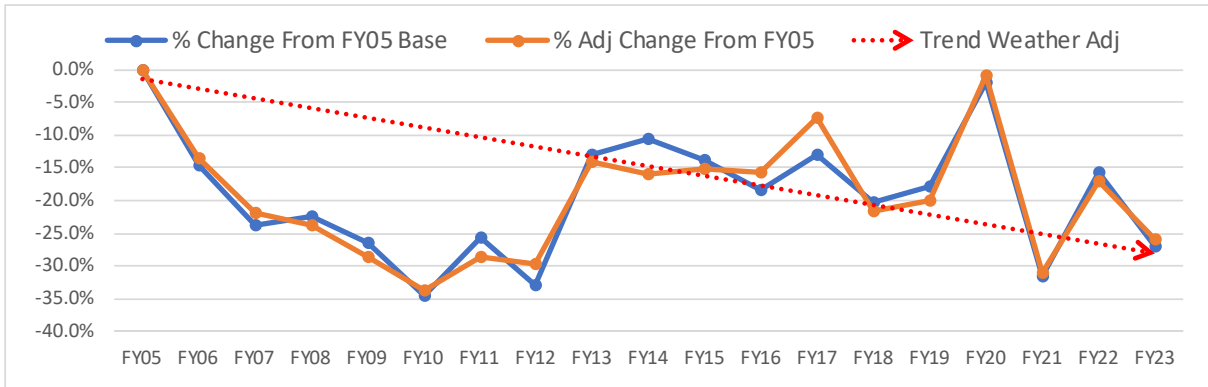
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOT-Green Bay Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 16.23		FY23 Therm/GSF = 0.46		FY23 Total Btu/GSF = 101,468		05-23 Thm -43.0%				
FY23 Electric \$/GSF = \$ 1.48		FY23 Thermal \$/GSF = \$ 0.40		FY23 Energy \$/GSF = \$ 1.88		05-23 kwh 0.1%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	40,515	84,100	54,819	138,919	0.0%	45.92	100.0%	100.0%	138,919	0.0%
FY06	40,515	60,540	58,017	118,557	-14.7%	47.27	103.4%	99.4%	120,281	-13.4%
FY07	40,515	51,120	54,837	105,957	-23.7%	46.64	105.3%	99.5%	108,389	-22.0%
FY08	40,515	51,929	55,786	107,715	-22.5%	45.02	96.6%	100.0%	105,909	-23.8%
FY09	40,515	50,581	51,556	102,138	-26.5%	43.47	94.4%	99.7%	99,154	-28.6%
FY10	40,515	43,754	47,216	90,970	-34.5%	45.99	102.8%	100.1%	92,209	-33.6%
FY11	40,515	53,998	49,240	103,237	-25.7%	44.59	92.6%	100.3%	99,376	-28.5%
FY12	40,515	44,727	48,357	93,083	-33.0%	49.86	113.3%	97.3%	97,749	-29.6%
FY13	40,515	70,221	50,531	120,753	-13.1%	45.29	97.6%	100.3%	119,221	-14.2%
FY14	40,515	75,866	48,323	124,189	-10.6%	41.95	90.2%	100.2%	116,872	-15.9%
FY15	40,515	73,473	46,114	119,587	-13.9%	43.98	97.4%	100.7%	117,958	-15.1%
FY16	40,515	64,494	49,026	113,520	-18.3%	48.11	105.8%	99.9%	117,210	-15.6%
FY17	40,515	70,324	50,655	120,979	-12.9%	48.65	111.7%	99.1%	128,789	-7.3%
FY18	40,515	65,487	45,244	110,731	-20.3%	45.77	98.1%	98.5%	108,783	-21.7%
FY19	40,515	70,741	43,479	114,221	-17.8%	44.89	97.1%	97.8%	111,253	-19.9%
FY20	40,515	87,979	48,025	136,004	-2.1%	46.41	102.2%	99.7%	137,809	-0.8%
FY21	40,515	58,473	36,538	95,011	-31.6%	47.28	102.9%	97.4%	95,758	-31.1%
FY22	40,515	75,225	42,009	117,234	-15.6%	46.75	99.0%	96.7%	115,125	-17.1%
FY23	40,515	46,075	55,393	101,468	-27.0%	47.58	104.1%	99.0%	102,826	-26.0%

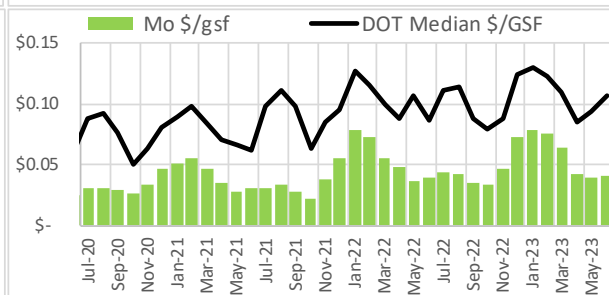
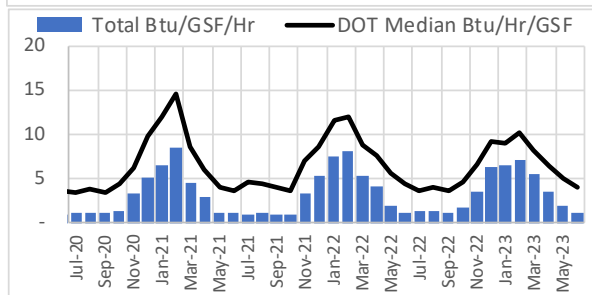
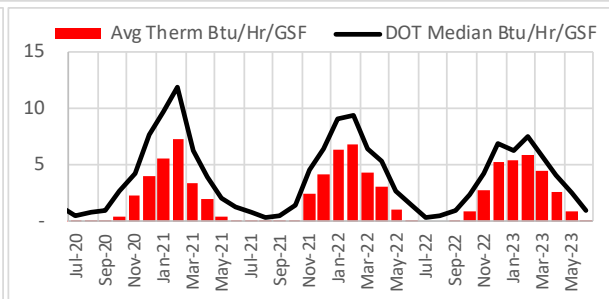
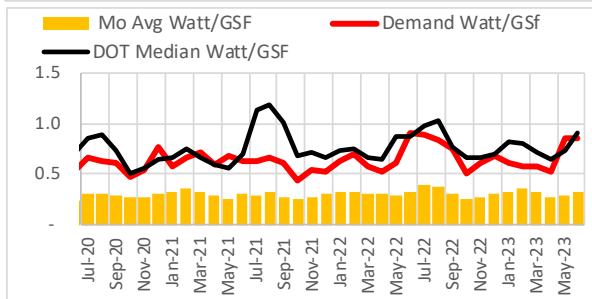
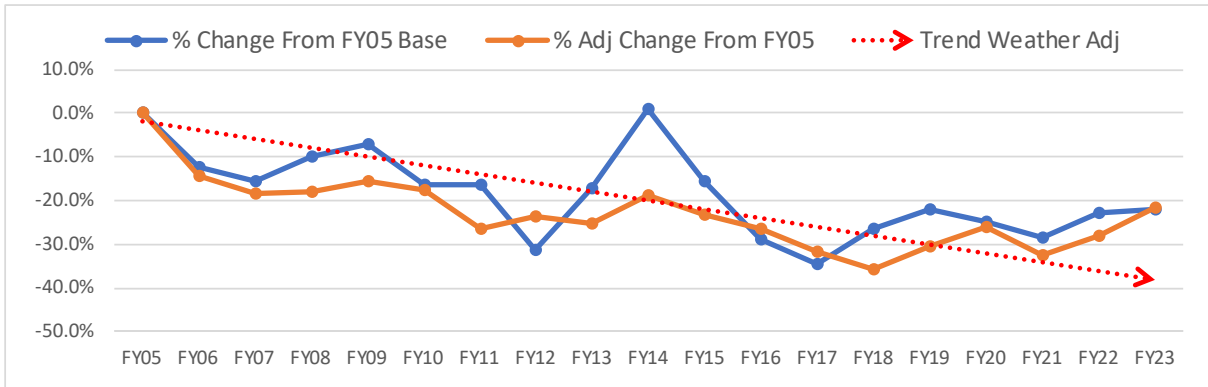
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



### DOT-PIERSTORFF A Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

FY23 Electric kwh/GSF = 2.79		FY23 Therm/GSF = 0.20		FY23 Total Btu/GSF = 29,918		05-23 Thm -5.4%				
FY23 Electric \$/GSF = \$ 0.42		FY23 Thermal \$/GSF = \$ 0.19		FY23 Energy \$/GSF = \$ 0.62		05-23 kwh -42.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	51,700	21,820	16,593	38,413	0.0%	48.12	100.0%	100.0%	38,413	0.0%
FY06	51,700	17,874	15,805	33,679	-12.3%	48.65	95.8%	99.6%	32,853	-14.5%
FY07	51,700	17,292	15,116	32,409	-15.6%	47.46	94.3%	99.7%	31,389	-18.3%
FY08	51,700	19,546	15,136	34,681	-9.7%	46.19	83.6%	99.8%	31,458	-18.1%
FY09	51,700	21,049	14,688	35,737	-7.0%	45.66	84.6%	99.9%	32,478	-15.5%
FY10	51,700	25,076	7,050	32,126	-16.4%	47.10	98.5%	99.8%	31,727	-17.4%
FY11	51,700	26,493	5,634	32,127	-16.4%	46.81	86.0%	96.6%	28,235	-26.5%
FY12	51,700	20,825	5,595	26,420	-31.2%	51.51	113.1%	104.1%	29,389	-23.5%
FY13	51,700	26,236	5,630	31,866	-17.0%	47.29	88.7%	98.3%	28,795	-25.0%
FY14	51,700	32,906	5,943	38,850	1.1%	44.58	76.8%	98.7%	31,142	-18.9%
FY15	51,700	24,705	7,718	32,423	-15.6%	45.84	88.3%	98.7%	29,430	-23.4%
FY16	51,700	19,248	8,100	27,348	-28.8%	49.68	103.9%	100.9%	28,182	-26.6%
FY17	51,700	16,269	8,910	25,179	-34.5%	49.72	105.9%	100.5%	26,182	-31.8%
FY18	51,700	19,982	8,323	28,305	-26.3%	46.66	82.4%	98.7%	24,681	-35.7%
FY19	51,700	21,906	7,982	29,887	-22.2%	45.88	85.8%	98.4%	26,658	-30.6%
FY20	51,700	21,244	7,568	28,813	-25.0%	48.07	98.3%	99.8%	28,442	-26.0%
FY21	51,700	18,460	8,962	27,421	-28.6%	47.61	92.6%	98.8%	25,945	-32.5%
FY22	51,700	20,643	9,008	29,651	-22.8%	48.04	90.9%	98.9%	27,683	-27.9%
FY23	51,700	20,399	9,520	29,918	-22.1%	48.64	101.2%	100.0%	30,163	-21.5%

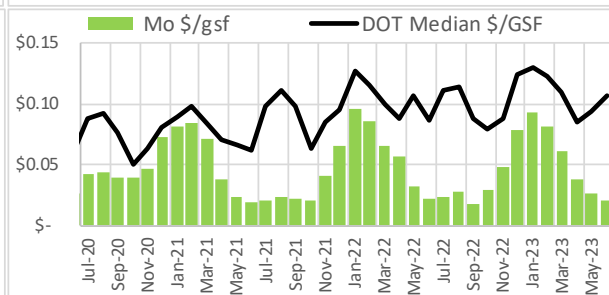
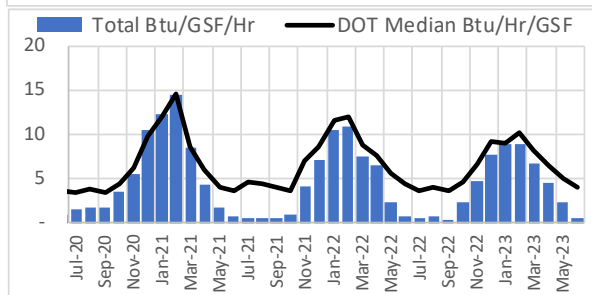
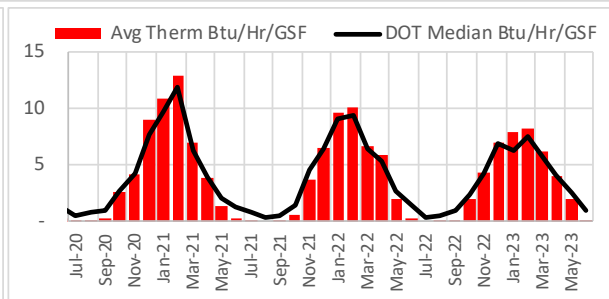
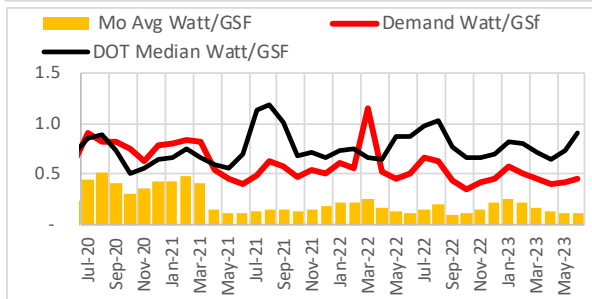
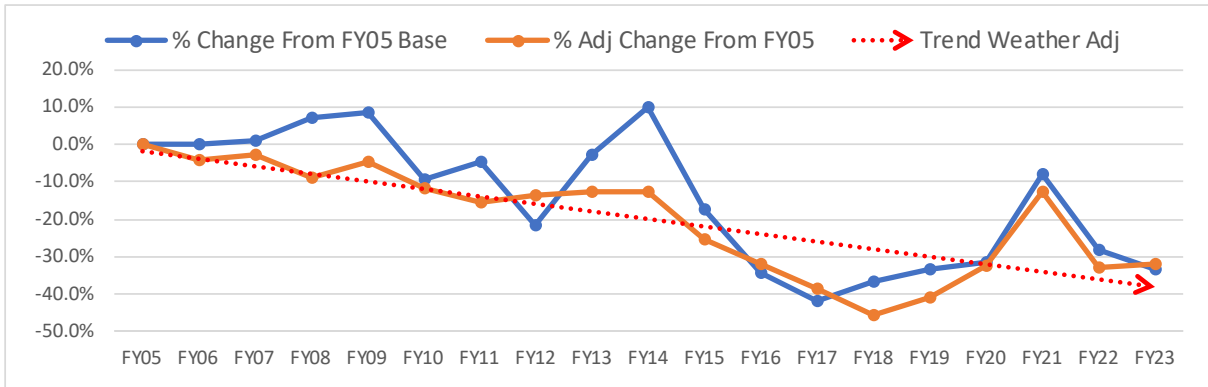
*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



**DOT-PIERSTORFF B Fiscal Year 2023 State Facilities Energy Report (FY05 Base)**

FY23 Electric kwh/GSF = 1.46		FY23 Therm/GSF = 0.30		FY23 Total Btu/GSF = 35,052		05-23 Thm -9.6%				
FY23 Electric \$/GSF = \$ 0.27		FY23 Thermal \$/GSF = \$ 0.28		FY23 Energy \$/GSF = \$ 0.55		05-23 kwh -72.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	51,200	34,005	18,471	52,477	0.0%	48.12	100.0%	100.0%	52,477	0.0%
FY06	51,200	34,105	18,312	52,417	-0.1%	48.65	93.8%	99.5%	50,223	-4.3%
FY07	51,200	34,785	18,313	53,099	1.2%	47.46	94.3%	99.6%	51,040	-2.7%
FY08	51,200	38,093	18,159	56,252	7.2%	46.19	78.5%	98.9%	47,857	-8.8%
FY09	51,200	38,795	18,057	56,852	8.3%	45.66	82.3%	99.8%	49,961	-4.8%
FY10	51,200	37,770	9,926	47,697	-9.1%	47.10	96.1%	100.5%	46,271	-11.8%
FY11	51,200	41,260	8,743	50,003	-4.7%	46.81	86.6%	97.5%	44,276	-15.6%
FY12	51,200	33,145	8,074	41,219	-21.5%	51.51	111.9%	101.0%	45,244	-13.8%
FY13	51,200	42,499	8,561	51,060	-2.7%	47.29	88.5%	96.7%	45,902	-12.5%
FY14	51,200	49,041	8,731	57,772	10.1%	44.58	76.2%	97.3%	45,843	-12.6%
FY15	51,200	36,379	7,084	43,463	-17.2%	45.84	88.8%	98.3%	39,264	-25.2%
FY16	51,200	28,206	6,380	34,587	-34.1%	49.68	103.8%	100.3%	35,667	-32.0%
FY17	51,200	25,054	5,591	30,645	-41.6%	49.72	106.5%	100.4%	32,307	-38.4%
FY18	51,200	27,281	5,995	33,276	-36.6%	46.66	83.1%	98.3%	28,559	-45.6%
FY19	51,200	29,106	5,941	35,047	-33.2%	45.88	86.3%	97.7%	30,934	-41.1%
FY20	51,200	29,952	5,910	35,862	-31.7%	48.07	99.0%	99.9%	35,545	-32.3%
FY21	51,200	37,838	10,410	48,248	-8.1%	47.61	94.2%	97.3%	45,771	-12.8%
FY22	51,200	32,653	5,126	37,779	-28.0%	48.04	92.1%	99.2%	35,151	-33.0%
FY23	51,200	30,056	4,997	35,052	-33.2%	48.64	102.2%	101.1%	35,784	-31.8%

Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

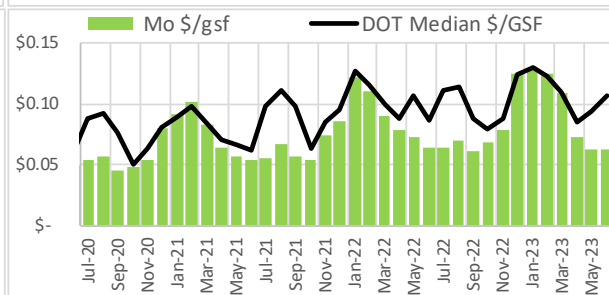
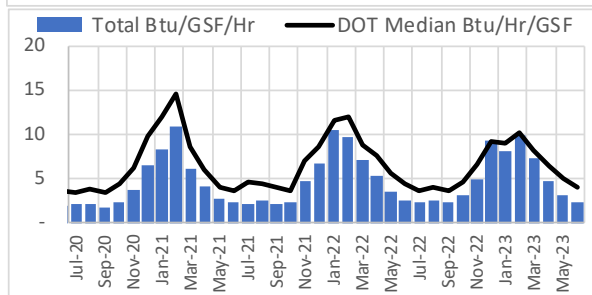
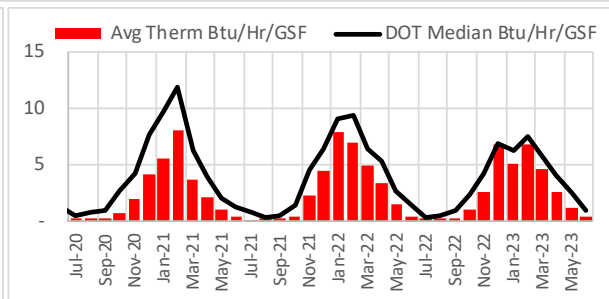
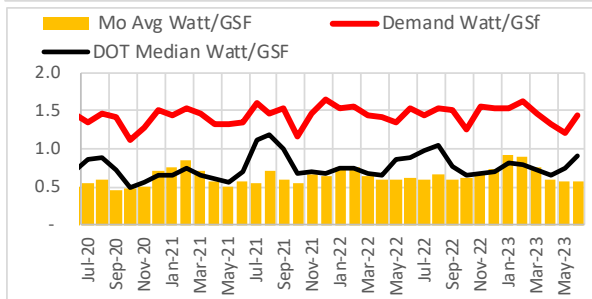
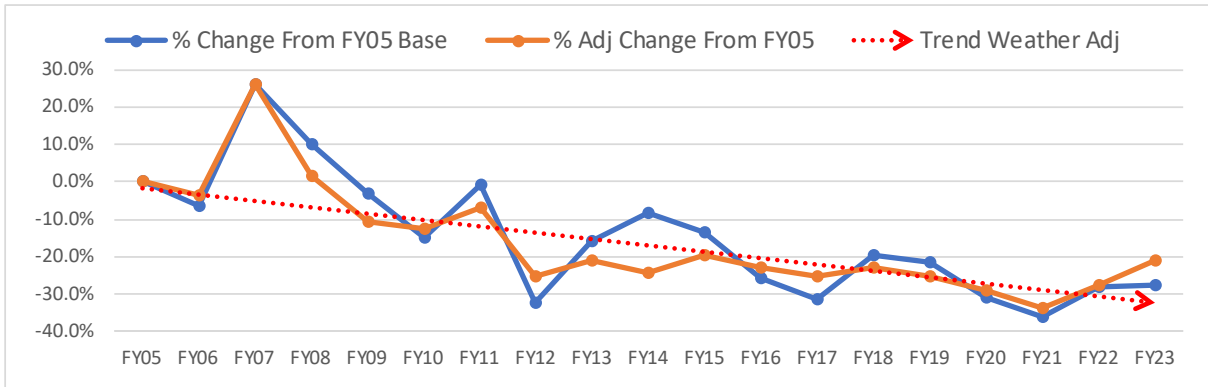




### DOT-West Allis Fiscal Year 2023 State Facilities Energy Report (FY05 Base)

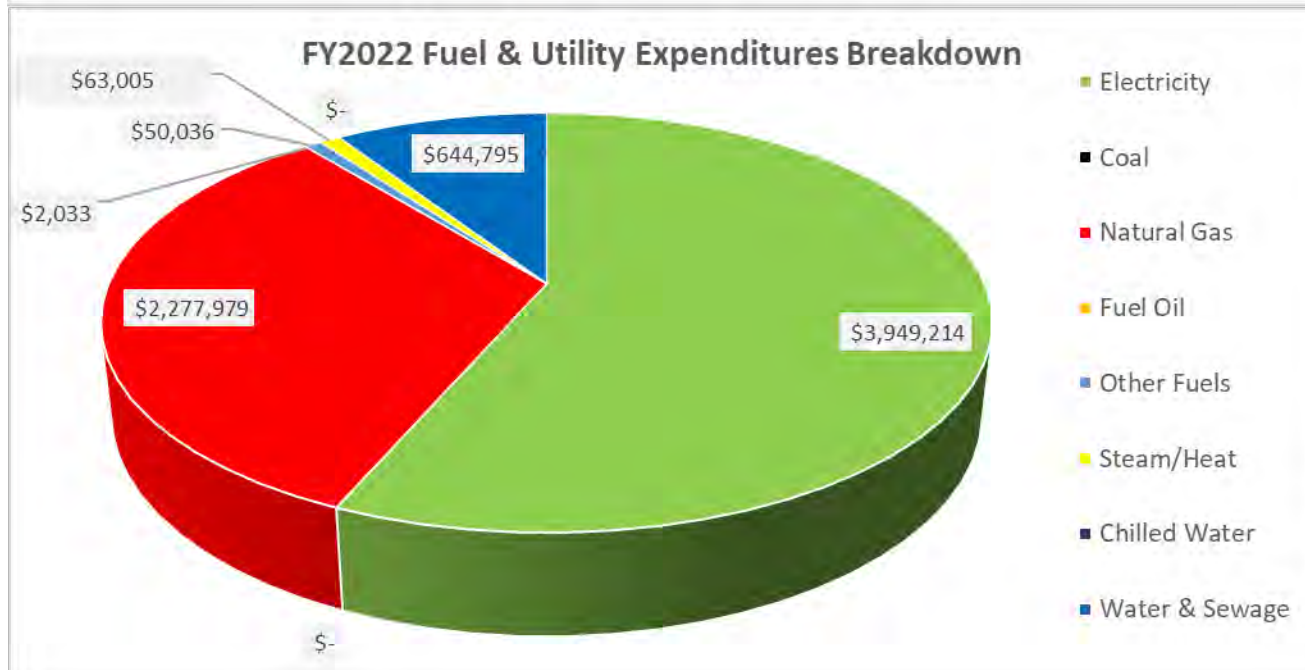
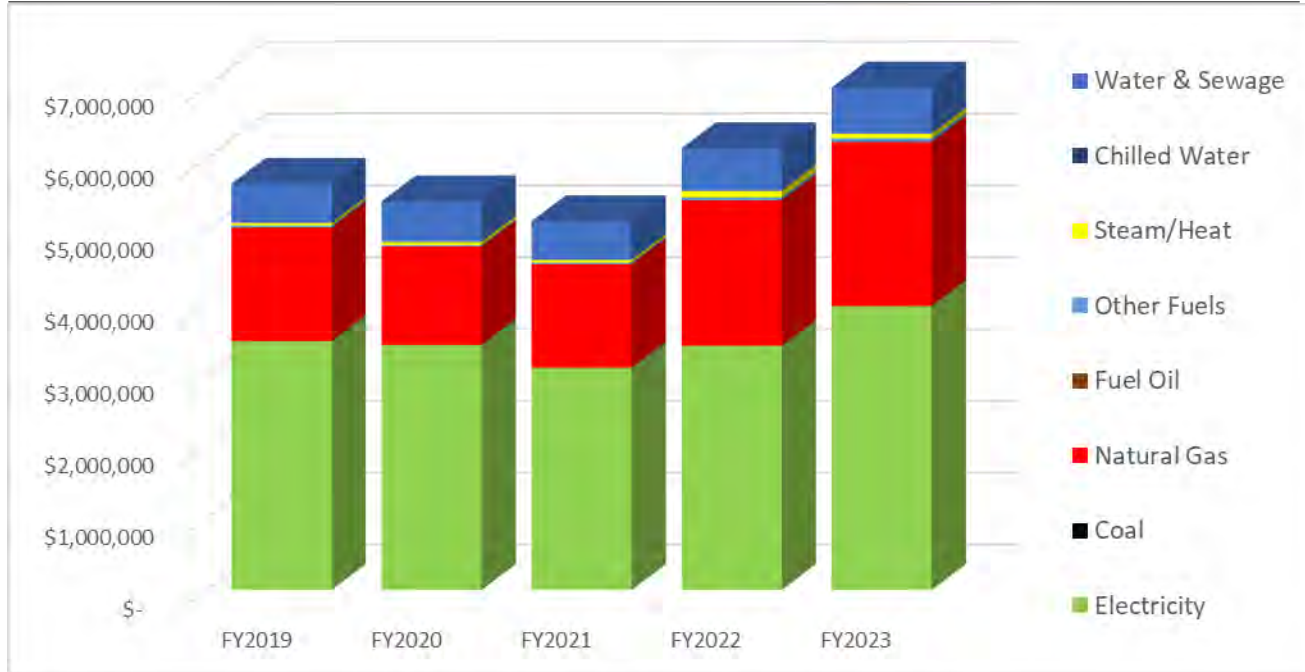
FY23 Electric kwh/GSF = 5.99		FY23 Therm/GSF = 0.23		FY23 Total Btu/GSF = 43,506		05-23 Thm -27.7%				
FY23 Electric \$/GSF = \$ 0.80		FY23 Thermal \$/GSF = \$ 0.22		FY23 Energy \$/GSF = \$ 1.02		05-23 kwh -10.6%				
Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	31,980	36,295	23,744	60,039	0.0%	48.47	100.0%	100.0%	60,039	0.0%
FY06	31,980	32,195	24,132	56,327	-6.2%	50.11	103.2%	102.0%	57,843	-3.7%
FY07	31,980	50,579	25,072	75,651	26.0%	48.88	100.1%	100.2%	75,753	26.2%
FY08	31,980	40,839	25,348	66,187	10.2%	47.87	89.2%	97.4%	61,129	1.8%
FY09	31,980	33,075	25,241	58,316	-2.9%	47.26	88.1%	97.5%	53,735	-10.5%
FY10	31,980	27,579	23,516	51,095	-14.9%	49.10	103.8%	101.1%	52,416	-12.7%
FY11	31,980	32,339	27,234	59,573	-0.8%	48.17	90.7%	97.6%	55,913	-6.9%
FY12	31,980	16,838	23,700	40,538	-32.5%	52.24	115.4%	107.3%	44,872	-25.3%
FY13	31,980	24,686	25,839	50,525	-15.8%	48.26	89.7%	97.8%	47,418	-21.0%
FY14	31,980	29,461	25,651	55,111	-8.2%	45.20	73.6%	93.1%	45,559	-24.1%
FY15	31,980	27,069	24,883	51,952	-13.5%	46.08	89.4%	96.3%	48,173	-19.8%
FY16	31,980	19,962	24,713	44,676	-25.6%	50.51	104.2%	103.7%	46,427	-22.7%
FY17	31,980	18,729	22,449	41,178	-31.4%	51.99	115.9%	103.4%	44,928	-25.2%
FY18	31,980	24,398	23,787	48,184	-19.7%	48.73	94.1%	98.7%	46,435	-22.7%
FY19	31,980	25,113	22,074	47,187	-21.4%	47.88	92.8%	98.3%	45,007	-25.0%
FY20	31,980	22,592	18,872	41,464	-30.9%	49.85	103.2%	102.1%	42,575	-29.1%
FY21	31,980	20,376	18,116	38,493	-35.9%	50.84	105.3%	101.1%	39,767	-33.8%
FY22	31,980	23,889	19,201	43,090	-28.2%	50.90	101.9%	99.5%	43,445	-27.6%
FY23	31,980	23,079	20,427	43,506	-27.5%	51.09	113.7%	104.0%	47,486	-20.9%

*Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.*



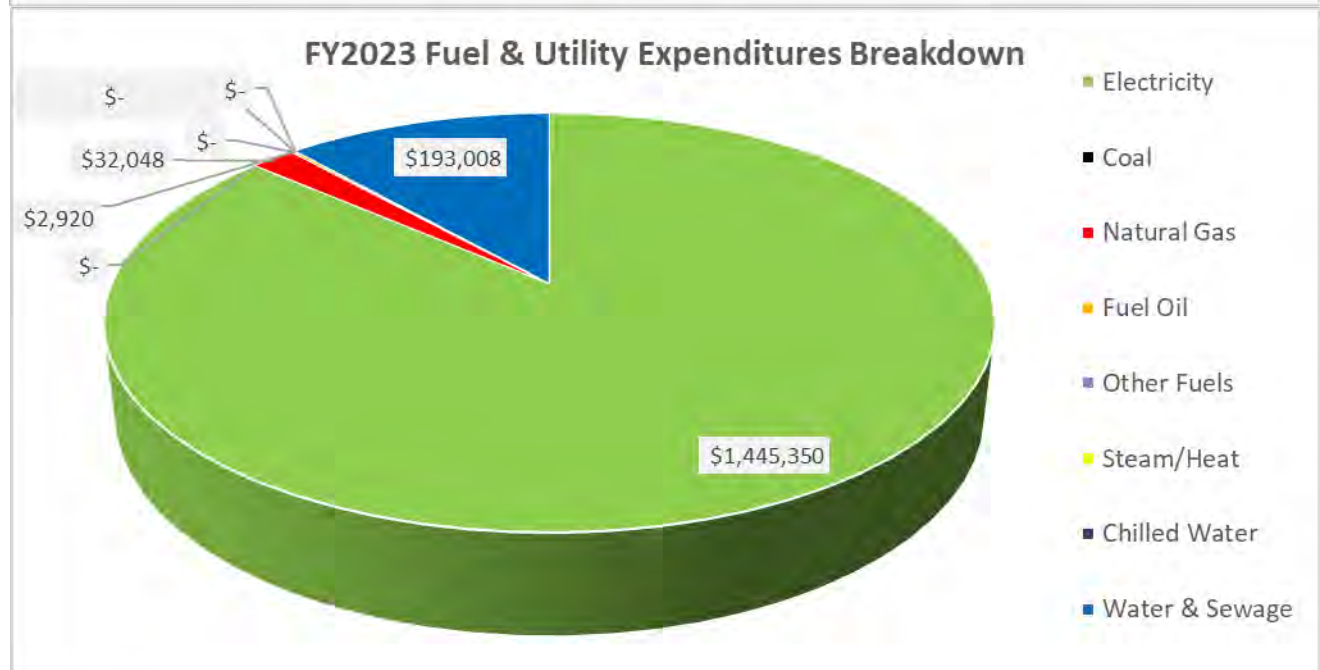
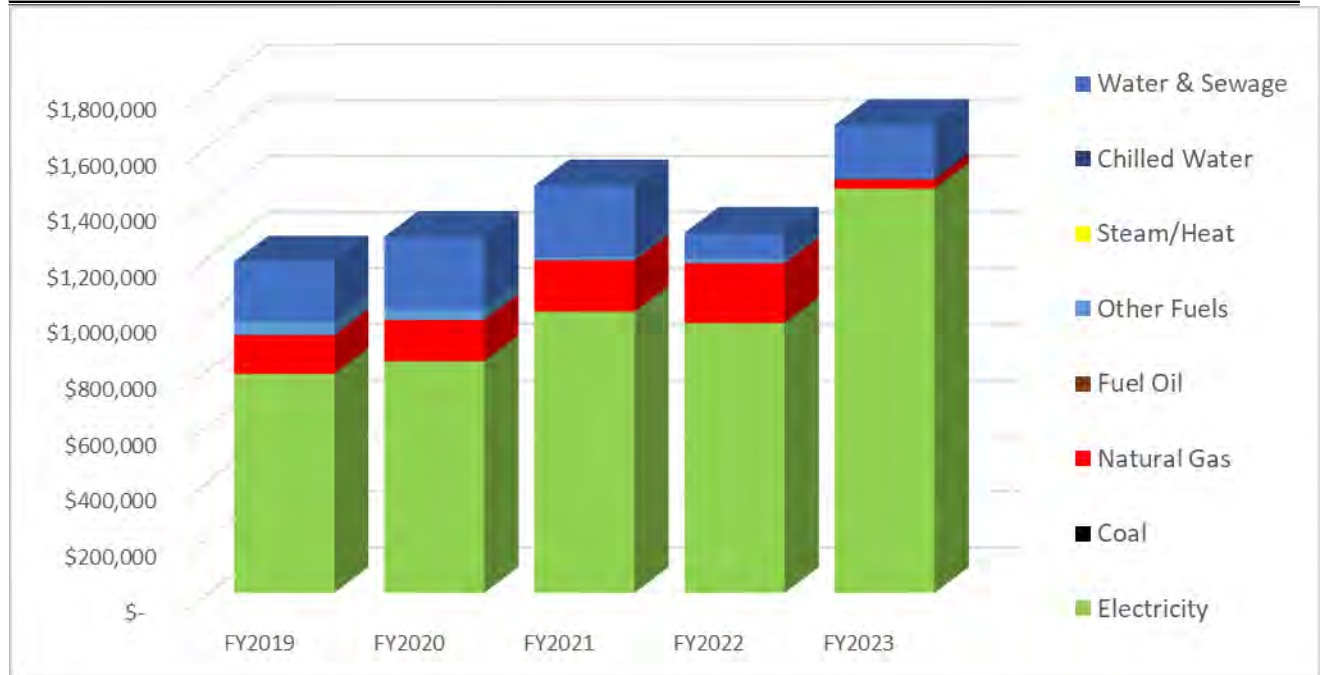
**Military Affairs, Department of**

Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 3,461,469	\$ 3,407,896	\$ 3,091,147	\$ 3,396,296	\$ 3,949,214
Coal	\$ -	\$ -	\$ -	\$ -	\$ -
Natural Gas	\$ 1,571,044	\$ 1,365,815	\$ 1,438,061	\$ 2,018,340	\$ 2,277,979
Fuel Oil	\$ 10,846	\$ 5,240	\$ -	\$ 5,072	\$ 2,033
Other Fuels	\$ 25,515	\$ 17,991	\$ 23,292	\$ 39,476	\$ 50,036
Steam/Heat	\$ 34,368	\$ 43,260	\$ 37,622	\$ 88,283	\$ 63,005
Chilled Water	\$ -	\$ -	\$ -	\$ -	\$ -
Water & Sewage	\$ 545,592	\$ 563,242	\$ 537,150	\$ 594,976	\$ 644,795
<b>Total Utilities</b>	<b>\$ 5,648,834</b>	<b>\$ 5,403,443</b>	<b>\$ 5,127,272</b>	<b>\$ 6,142,443</b>	<b>\$ 6,987,062</b>

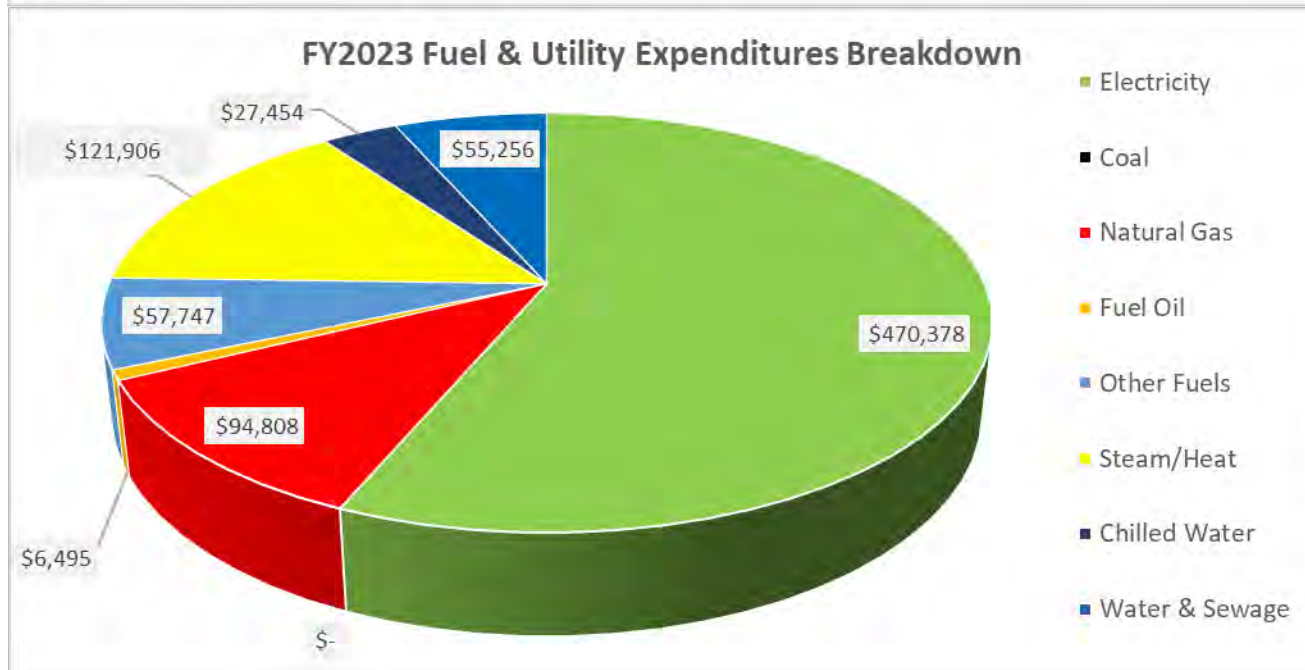
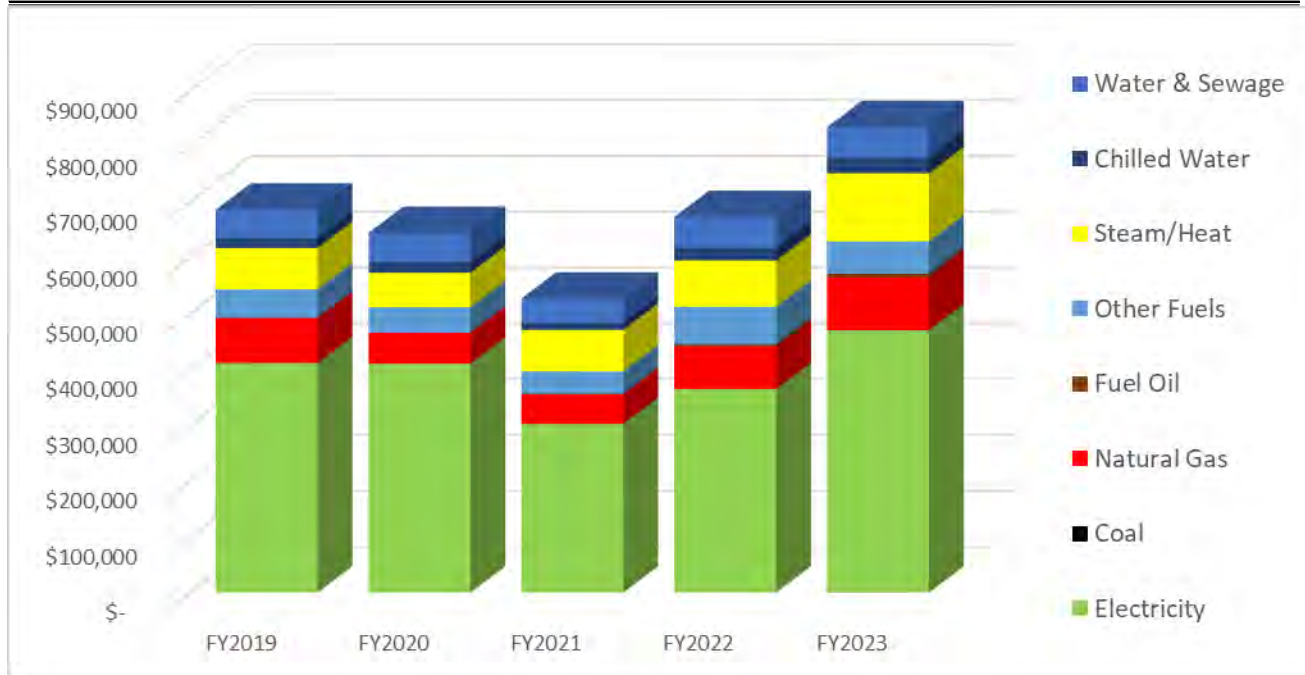


**State Fair Park Board**

Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 783,260	\$ 828,698	\$ 1,006,173	\$ 965,131	\$ 1,445,350
Coal	\$ -	\$ -	\$ -	\$ -	\$ -
Natural Gas	\$ 139,079	\$ 147,525	\$ 183,612	\$ 214,239	\$ 32,048
Fuel Oil	\$ -	\$ -	\$ -	\$ -	\$ 2,920
Other Fuels	\$ 47,859	\$ 38,222	\$ 10,973	\$ 16,785	
Steam/Heat	\$ -	\$ -	\$ -	\$ -	
Chilled Water	\$ -	\$ -	\$ -	\$ -	
Water & Sewage	\$ 214,928	\$ 258,877	\$ 256,059	\$ 91,565	\$ 193,008
<b>Total Utilities</b>	<b>\$ 1,185,125</b>	<b>\$ 1,273,322</b>	<b>\$ 1,456,817</b>	<b>\$ 1,287,721</b>	<b>\$ 1,673,326</b>



Historical Society					
Subcategory Name	FY2019	FY2020	FY2021	FY2022	FY2023
Electricity	\$ 411,561	\$ 410,494	\$ 302,582	\$ 365,033	\$ 470,378
Coal	\$ -	\$ -	\$ -	\$ -	\$ -
Natural Gas	\$ 80,917	\$ 55,186	\$ 53,050	\$ 75,960	\$ 94,808
Fuel Oil	\$ -	\$ -	\$ 469	\$ 3,629	\$ 6,495
Other Fuels	\$ 50,946	\$ 45,703	\$ 40,613	\$ 67,639	\$ 57,747
Steam/Heat	\$ 74,180	\$ 61,800	\$ 74,118	\$ 82,857	\$ 121,906
Chilled Water	\$ 17,783	\$ 19,423	\$ 12,983	\$ 22,971	\$ 27,454
Water & Sewage	\$ 50,745	\$ 52,059	\$ 43,063	\$ 55,038	\$ 55,256
<b>Total Utilities</b>	<b>\$ 686,132</b>	<b>\$ 644,664</b>	<b>\$ 526,877</b>	<b>\$ 673,127</b>	<b>\$ 834,043</b>



# Benchmarking, Tracking and Managing Energy Use

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Buildings that consistently benchmark energy performance save energy. The most common energy performance benchmarks are based on Btu energy use per Gross Square Feet (GSF) building area to measure the year-to-year changes in energy use and conservation efforts. Monitored building energy consumption is broken down into two categories:

- 1) Electricity, which represents total purchased and central plant co-generated electricity; and
- 2) Thermal or Fossil Fuel, which includes gas, oil, propane, coal, etc.

Energy consumption in these categories is monitored through coordination of monthly utility billings and energy consumption reports. All forms of energy consumption are converted to units of Btu/GSF/year. The conversion also removes any variation in energy use over time caused by changes in the size of an individual facility. Electricity consumption is converted from metered kWh to Btu/GSF/Year by multiplying the total fiscal year metered kWh of electricity by 3,413 (Btu/kwh standard conversion factor), and then dividing the resulting number by the gross square footage (GSF) of serviced building area. Fossil fuel energy use is converted to units of Btu/GSF/Year by dividing the Btu value of the fossil fuel category energy consumption by the gross square footage of serviced building area.

Weather has a significant impact upon energy consumption and should be considered when evaluating efficiencies. Annual heating and cooling degree days can change dramatically from location to location and year to year. Such changes can significantly impact the demand upon heating and cooling systems of a facility.

Site and Source Energy Use Intensity (EUI) - Site EUI may be familiar with from your bills. Site EUI contains a mixture of what is called primary energy (i.e., a raw fuel like natural gas) and secondary energy (i.e., a converted product like electricity or district steam). Source energy provides the most equitable way to combine primary and secondary energy types into a single common unit, ensuring that no building receives either a credit or a penalty based on its energy source or utility.

The annual State Energy Report Site Energy Use Intensity (EUI) monthly/annual measures and benchmarks include:

- Fiscal Year Electricity Use (BTU/GSF/YR) - rate of electricity use with 3413 BTU per kWh conversion factor for the fiscal year, Fiscal Year 2023 (FY2023) July 1, 2022, through June 30, 2023.
- Fiscal Year Fossil Fuel Use (BTU/GSF/YR) - rate of fossil fuel use for the 2023 fiscal year.
- FY23 Total Energy Use (BTU/GSF/YR) - rate of energy use data for the 2023 fiscal year.
- Latest Year Percent Change - the percent change in energy consumption from fiscal year 2022 to fiscal year 2023.
- Base Year Energy Use (BTU/GSF/YR) - rate of energy use for the base fiscal year FY2005.
- GSF (Gross Square Feet) - values used represent monitored gross square footage present on the last day of the fiscal year. GSF data were receive from the agencies.
- Electricity (BTU/GSF/YR) - values were obtained by multiplying kWh of purchased electricity by 3,413 Btu/kWh (a standard conversion factor) and then dividing by GSF. This value includes electricity cogenerated on site at the following facilities: Waupun

Correctional, Mendota Mental Health Institute, Winnebago Mental Health Institute and UW-Madison.

- Fossil Fuel (BTU/GSF/YR) - values were obtained by dividing the fossil fuel energy use (Btu) by the gross square feet (GSF) for the indicated year. Fossil Fuel includes natural gas, fuel oil, coal, purchased steam, wood and paper pellets. This energy is used for heating, cooling and adjusted for cogenerating electricity, depending upon the energy systems used in the facility.
- Total BTU/GSF/YR - sum of the fossil fuel (Btu/GSF/Yr.) and the electricity (Btu/GSF/Yr.).
- % Change from Base - percentage change in the Total Btu/GSF/Yr. for FY2023 from Total Btu/GSF/Yr. of the base year, FY2005.
- Electric kwh/GSF = electricity energy use (kwh) per building area gross square feet (GSF).
- Electric Watt/GSF = electric power (1000 watt = 1 kw) per building GSF.
- Therm/GSF = thermal energy use (therm = 100,000 Btu) per building area GSF.
- Total Btu/GSF = total energy use (Btu) per building area GSF.
- Energy \$/GSF = energy costs \$ per building area GSF.
- Energy Use Intensity = EUI per ft<sup>2</sup> = Gross Square Feet (GSF) building area; kBtu = 1000 Btu; kwh = 1000 watthours; and therm =100,000 Btu.

Energy consumption rates are calculated using end-of-year GSF values. Therefore, if the total monitored gross square footage of a facility changes during the fiscal year, values for the rates of energy consumption will not be 100% accurate. The numbers become less accurate as the magnitude of the GSF change increases and the date of the change falls nearer the end of the fiscal year.

Annual EUI Benchmarks and Monthly Assessments - multiple year trends and comparisons to measure and identify potential savings with goals:

- Reduce weather adjusted energy use and costs year-to-year.
- Identify changes in energy use and costs.
- Evaluate energy use changes: 1) Results from Energy Conservation Measures; 2) Changes in Building Occupancy and Schedules; and/or 3) Changes in Building System Operation, Equipment Schedules; Controls or Set-Points.
- Recommendations for Improvements with Metering and Verification.

Electric Demand - Electric Demand is the rate of using electricity. For most commercial buildings, demand is measured in kilowatts (kW). Utilities measure the highest rate of using electricity each billing cycle in order to adequately size the generation, transmission and distribution capacity required to provide energy to each customer. The utility then recoups these costs by billing based on highest measured demand, and when that demand occurs relative to when the utility experiences peak demand on their system.

NOTE: Several external factors should be considered when viewing this data. External factors include weather, space use, hours of occupancy, number of occupants, available maintenance funds, differences in facility design, number of plant and maintenance staff, and conservation funds allocated to the site.

*Electric kwh/GSF = electricity energy use (kwh) per building area gross square feet per year.*

*Therm/GSF = thermal energy use (therm = 100,000 Btu) per building area gross square feet per year.*

*Total Btu/GSF = total energy use (Btu) per building area gross square feet per year. FY05-18 Thermal % Change*

**Statewide Facilities Total Fiscal Year 2022 Total State Agency Total (FY05 Base)**

FY22 Electric kwh/GSF = 12.64	FY22 Therm/GSF = 1.13	FY22 Total Btu/GSF = 155,940	05-22 Thm -24.9%
FY22 Electric \$/GSF = \$ 1.26	FY22 Thermal \$/GSF = \$ 0.77	FY22 Energy \$/GSF = \$ 2.03	05-22 kwh -14.7%

*Electric \$/GSF = electric cost per building area gross square feet per year.*

*Thermal \$/GSF = thermal energy cost per building area gross square feet per year.*

*Energy \$/GSF = total energy cost per building area gross sq. feet per year. FY05-18 Electric % Change*

*Fiscal Year – period from July 1<sup>st</sup> through July 31<sup>st</sup>. Fiscal Year 2005 (FY05) base July 1, 2004, through July 31, 2005.*

*Gross Square Feet (GSF) – monitored building area gross square footage on last day of the fiscal year.*

*Site Thermal Btu/GSF - fossil fuel energy use (Btu) divided by the gross square feet (GSF) for the indicated year.*

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Mo Avg Temp	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	64,753,150	148,686	49,704	198,390	0.0%	47.05	100.0%	100.0%	198,390	0.0%
FY06	65,405,533	145,097	51,086	196,183	-1.1%	48.17	100.8%	99.5%	197,034	-0.7%
FY20	74,706,460	113,840	42,824	156,665	-21.0%	46.24	97.7%	100.1%	154,092	-22.3%
FY21	74,863,133	109,333	41,267	150,600	-24.1%	46.25	97.5%	99.3%	147,579	-25.6%
FY22	74,821,220	112,787	43,153	155,940	-21.4%	47.32	99.0%	98.3%	154,057	-22.3%

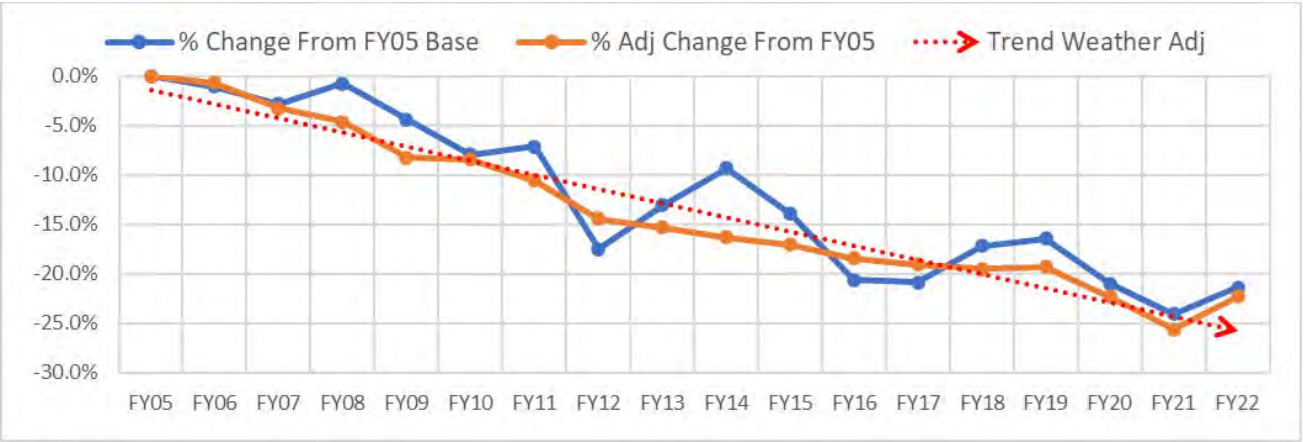
Energy Btu/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

*Site Electricity Btu/GSF – electric energy use (Btu) divided by the gross square feet (GSF) for the fiscal year.*

*Site Total Btu/GSF – total energy use (Btu) divided by the gross square feet (GSF) for the fiscal year.*

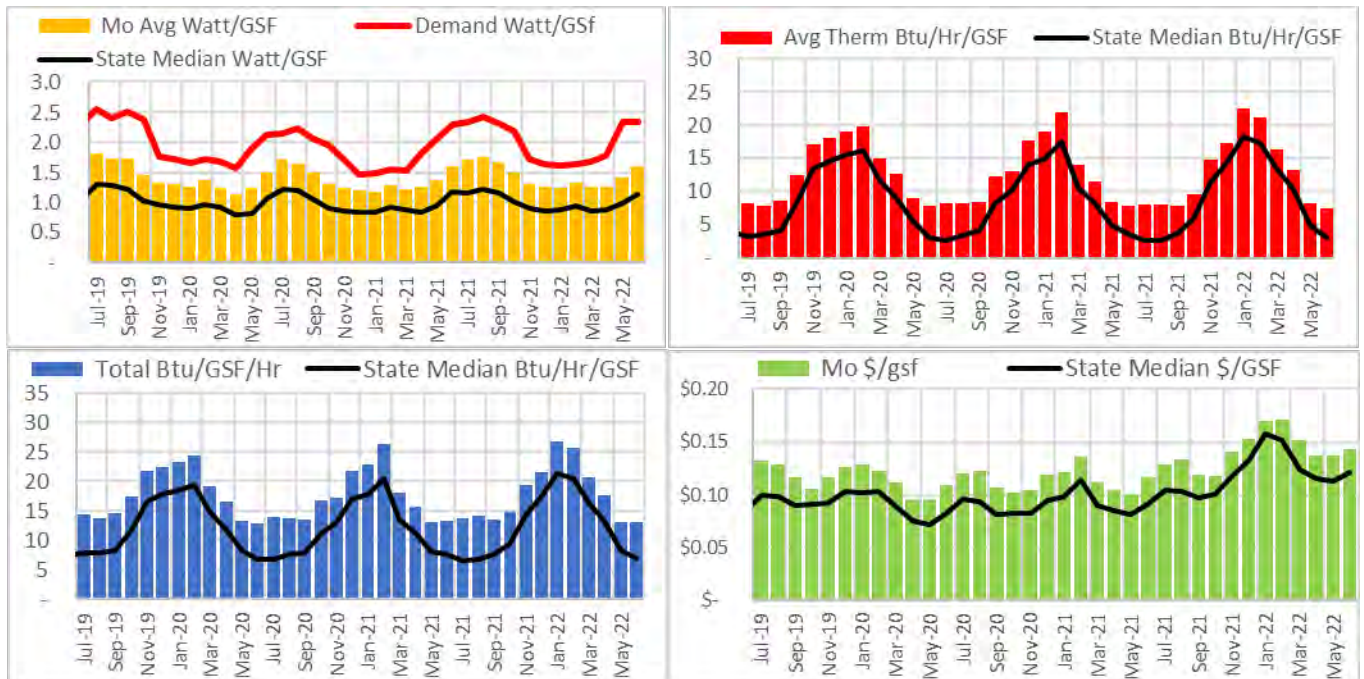
*Percent change from FY2005 Base with and without weather adjustments.*

Trend in site total energy use gross square feet (GSF) change from fiscal year 2005 baseline.



Below describe the monthly three year's monthly benchmarks and profiles presented below & herein:

- Monthly Electric Energy Use Average Watt per Gross Square Foot.
- Monthly Electric Demand Watt per Gross Square Foot.
- Monthly Agency Electric Median Average Watt per Gross Square Feet.
- Monthly Average Thermal Btu per Hour per Gross Square Feet.
- Monthly Agency Median Thermal Btu per Hour per Gross Square Feet.
- Monthly Total Energy Btu per Hour per Gross Square Feet.
- Monthly Agency Median Total Energy Btu per Hour per Gross Square Feet.
- Monthly Total Energy Cost per Hour per Gross Square Feet.
- Monthly Agency Median Total Energy Cost per Gross Square Feet.





## Facilities Energy Use Performance

Buildings with different functions and operating schedules have significantly different levels of energy use.

Examples:

The State Lab of Hygiene is a very highly ventilated laboratory space requiring 24/7 laboratory exhaust and supply to maintain safe operating conditions.

### FY16 State Lab of Hygiene:

Building Area Gross Square Foot (GSF) = 160,344

Heating Energy Use = 196523 BTU per GSF

Electrical Energy Use = 141472 BTU per GSF

*Total Rate of Energy Use = 337996 BTU per GSF*

The DNR Northeast Regional Headquarters office in Green Bay and the DOA Green Bay State Office Building Have some of the lowest energy use per square foot of all the State of Wisconsin office buildings.

### FY16 DNR Northeast Regional Headquarter:

Building Area Gross Square Foot (GSF) = 34,560

Heating Energy Use = 27640 BTU per GSF

Electrical Energy Use = 21836 BTU per GSF

*Total Rate of Energy Use = 49476 BTU per GSF*

### FY16 DOA Green Bay State Office Building:

Building Area Gross Square Foot (GSF) = 69,052

Heating Energy Use = 19149 BTU per GSF

Electrical Energy Use = 24227 BTU per GSF

*Total Rate of Energy Use = 43375 BTU per GSF*

**State-Owned Facilities Energy Use and Cost Performance Benchmarks**

Agency-Facility	FY2023 GSF	FY2022 GSF	FY2023 Adjusted Thermal Btu/GSF/Yr	FY2023 Adjusted Electric Btu/GSF/Yr	FY2023 Adjusted Energy Btu/GSF/Yr	FY2005 Energy Btu/GSF/Yr	% FY05- FY23 Change Total Btu/GSF	FY2023 Thermal Cost \$/GSF	FY2023 Electric Cost \$/GSF	FY2023 Energy Cost \$/GSF
DHS-Mendota	1,320,211	1,320,211	199,796	29,158	228,954	273,839	-16.39%	\$ 1.22	\$ 1.00	\$ 2.21
DHS-Northern Center	523,226	523,226	128,914	32,047	160,961	169,938	-5.28%	\$ 0.81	\$ 0.88	\$ 1.69
DHS-Sand Ridge	308,828	308,828	89,815	47,382	137,197	155,053	-11.52%	\$ 0.59	\$ 1.25	\$ 1.84
DHS-Southern Center	1,023,235	1,023,235	122,425	28,794	151,219	177,385	-14.75%	\$ 0.70	\$ 0.87	\$ 1.56
DHS-Winnebago	983,900	983,900	110,241	33,733	143,975	174,596	-17.54%	\$ 0.60	\$ 0.83	\$ 1.43
<b>DHS</b>	<b>4,159,400</b>	<b>4,159,400</b>	<b>142,496</b>	<b>31,867</b>	<b>174,363</b>	<b>204,184</b>	<b>-14.61%</b>	<b>\$ 0.85</b>	<b>\$ 0.93</b>	<b>\$ 1.78</b>
DNR-Darwin Road	24,820	24,820	32,582	14,090	46,672	68,925	-32.29%	\$ 0.31	\$ 0.70	\$ 1.00
DNR-Green Bay	34,560	34,560	34,217	24,111	58,328			\$ 0.28	\$ 0.89	\$ 1.17
DNR-South Central	33,976	33,976	100,031	36,292	136,323	186,508	-26.91%	\$ 0.93	\$ 1.74	\$ 2.67
DNR-Tomahawk	36,741	36,741	55,726	25,360	81,086	75,049	8.04%	\$ 0.51	\$ 0.88	\$ 1.39
<b>DNR</b>	<b>130,097</b>	<b>130,097</b>	<b>57,167</b>	<b>25,733</b>	<b>82,900</b>	<b>111,053</b>	<b>-25.35%</b>	<b>\$ 0.52</b>	<b>\$ 1.07</b>	<b>\$ 1.59</b>
DOA-Air Services	17,898	17,898	92,566	12,539	105,105	115,262	-8.81%	\$ 0.85	\$ 0.65	\$ 1.49
DOA-Capitol Complex	2,013,307	2,013,307	89,707	35,350	125,057	169,826	-26.36%	\$ 0.51	\$ 1.22	\$ 1.74
DOA-Eau Claire SOB	56,206	56,206	49,676	23,493	73,169	77,936	-6.12%	\$ 0.52	\$ 0.89	\$ 1.41
DOA-Executive Residence	23,455	23,455	55,326	31,344	86,670	122,168	-29.06%	\$ 0.49	\$ 1.44	\$ 1.93
DOA-Green Bay SOB	69,206	69,206	40,544	14,243	54,787	57,083	-4.02%	\$ 0.32	\$ 0.51	\$ 0.84
DOA-Hill Farms	879,419	879,419	55,659	26,084	81,743	185,875	-56.02%	\$ 0.44	\$ 0.95	\$ 1.39
DOA-La Crosse SOB	45,965	45,965	33,918	19,647	53,565	67,468	-20.61%	\$ 0.34	\$ 0.75	\$ 1.09
DOA-Milwaukee SOB	201,200	201,200	36,861	32,263	69,124	76,115	-9.18%	\$ 0.55	\$ 1.38	\$ 1.93
DOA-Public Broadcasting	48,246	48,246	86,896	88,736	175,632	258,351	-32.02%	\$ 0.73	\$ 3.00	\$ 3.73
DOA-SE Crime Lab	43,935	43,935	107,009	87,937	194,947	120,490	61.80%	\$ 0.64	\$ 2.99	\$ 3.63
DOA-State Ag	118,011	118,011	50,796	25,113	75,909	90,538	-16.16%	\$ 0.11	\$ 1.28	\$ 1.39
DOA-State Hygiene Lab	160,344	160,344	222,414	149,622	372,036	473,969	-21.51%	\$ 1.42	\$ 5.38	\$ 6.80
DOA-State Revenue	247,224	247,224	42,793	25,060	67,853	134,734	-49.64%	\$ 0.32	\$ 1.05	\$ 1.38
DOA-Milwaukee, Waukesha SOB	169,976	169,976	26,394	19,825	46,220	101,737	-54.57%	\$ 0.11	\$ 0.80	\$ 0.91
DOA-WI Rapids SOB	51,552	51,552	33,380	18,192	51,572	78,136	-34.00%	\$ 0.32	\$ 0.67	\$ 1.00
DOA-Femrite Data Center	56,987	56,987	58,218	393,405	451,623			\$ 0.49	\$ 12.59	\$ 13.08
<b>DOA</b>	<b>4,202,931</b>	<b>4,202,931</b>	<b>75,599</b>	<b>41,112</b>	<b>116,711</b>	<b>157,840</b>	<b>-26.06%</b>	<b>\$ 0.49</b>	<b>\$ 1.47</b>	<b>\$ 1.96</b>
DOC-Boscobel	195,000	195,000	113,776	59,043	172,819	183,488	-5.81%	\$ 0.80	\$ 1.54	\$ 2.34
DOC-Columbia	330,807	330,807	86,312	47,061	133,373	162,805	-18.08%	\$ 0.55	\$ 1.15	\$ 1.70
DOC-Fox Lake	533,407	533,407	149,079	32,891	181,970	189,382	-3.91%	\$ 0.88	\$ 0.89	\$ 1.76
DOC-Green Bay	453,750	453,750	153,234	30,888	184,122	178,856	2.94%	\$ 0.83	\$ 0.76	\$ 1.59
DOC-Jackson	390,613	390,613	109,608	44,584	154,193	179,907	-14.29%	\$ 0.77	\$ 1.18	\$ 1.95
DOC-Kettle Moraine	361,612	361,612	155,161	43,685	198,846	194,910	2.02%	\$ 0.87	\$ 1.06	\$ 1.94
DOC-Lincoln Hills	249,792	249,792	125,202	33,653	158,855	154,781	2.63%	\$ 0.75	\$ 0.80	\$ 1.55
DOC-Milwaukee Secure	413,011	413,011	66,801	29,911	96,713	88,479	9.31%	\$ 1.44	\$ 0.96	\$ 2.40
DOC-New Lisbon	316,878	316,878	137,545	59,071	196,616	224,158	-12.29%	\$ 0.86	\$ 1.31	\$ 2.16
DOC-Oakhill	348,153	348,153	149,562	31,170	180,732	157,326	14.88%	\$ 0.88	\$ 0.80	\$ 1.68
DOC-Oshkosh	890,187	890,187	111,915	33,952	145,867	154,357	-5.50%	\$ 0.62	\$ 0.82	\$ 1.44
DOC-Prairie du Chien	383,100	383,100	76,621	15,896	92,517	121,679	-23.97%	\$ 0.49	\$ 0.42	\$ 0.91
DOC-Racine	409,046	409,046	107,026	49,323	156,349	174,029	-10.16%	\$ 0.57	\$ 1.41	\$ 1.97
DOC-Racine Youth	207,697	207,697	63,229	31,478	94,707	123,239	-23.15%	\$ 0.37	\$ 1.09	\$ 1.45
DOC-Redgranite	310,135	310,135	115,230	50,267	165,497	213,425	-22.46%	\$ 0.71	\$ 1.24	\$ 1.95
DOC-Stanley	411,897	411,897	122,264	42,732	164,997	204,540	-19.33%	\$ 1.27	\$ 1.34	\$ 2.61
DOC-Sturtevant	93,312	93,312	89,420	37,517	126,938	185,937	-31.73%	\$ 0.51	\$ 1.18	\$ 1.69
DOC-Taycheedah	380,940	380,940	81,393	31,277	112,670	118,910	-5.25%	\$ 0.50	\$ 0.79	\$ 1.29
DOC-Waupun	1,260,274	1,260,274	154,915	36,828	191,744	245,233	-21.81%	\$ 0.91	\$ 1.30	\$ 2.20
<b>DOC</b>	<b>7,939,611</b>	<b>7,939,611</b>	<b>120,888</b>	<b>37,814</b>	<b>158,702</b>	<b>178,132</b>	<b>-10.91%</b>	<b>\$ 0.80</b>	<b>\$ 1.05</b>	<b>\$ 1.84</b>

**State-Owned Facilities Energy Use and Cost Performance Benchmarks**

Agency-Facility	FY2023 GSF	FY2022 GSF	FY2023 Adjusted Thermal Btu/GSF/Yr	FY2023 Adjusted Electric Btu/GSF/Yr	FY2023 Adjusted Energy Btu/GSF/Yr	FY2005 Energy Btu/GSF/Yr	% FY05- FY23 Change Total Btu/GSF	FY2023 Thermal Cost \$/GSF	FY2023 Electric Cost \$/GSF	FY2023 Energy Cost \$/GSF
DOT-DTD 1 Lab	43,000	43,000	69,151	62,674	131,825	246,311	-46.48%	\$ 0.18	\$ 2.63	\$ 2.81
DOT-DTD 1 Madison	56,000	56,000	36,177	26,545	62,722	113,762	-44.87%	\$ 0.32	\$ 1.16	\$ 1.48
DOT-Green Bay	40,515	40,515	47,978	54,849	102,826	138,919	-25.98%	\$ 0.40	\$ 1.48	\$ 1.88
DOT-PIERSTORFF A	51,700	51,700	20,646	9,518	30,163	38,413	-21.48%	\$ 0.19	\$ 0.42	\$ 0.62
DOT-PIERSTORFF B	51,200	51,200	30,730	5,054	35,784	52,477	-31.81%	\$ 0.28	\$ 0.27	\$ 0.55
DOT-West Allis	31,980	31,980	26,249	21,237	47,486	60,039	-20.91%	\$ 0.22	\$ 0.80	\$ 1.02
<b>DOT</b>	<b>274,395</b>	<b>274,395</b>	<b>37,987</b>	<b>28,549</b>	<b>66,536</b>	<b>106,355</b>	<b>-37.44%</b>	<b>\$ 0.27</b>	<b>\$ 1.09</b>	<b>\$ 1.36</b>
DPI-Delavan	244,979	244,979	75,172	20,566	95,738	101,462	-5.64%	\$ 0.45	\$ 0.66	\$ 1.10
DPI-Janesville	196,204	196,204	79,040	14,391	93,431	93,680	-0.27%	\$ 0.48	\$ 0.50	\$ 0.97
<b>DPI</b>	<b>441,183</b>	<b>441,183</b>	<b>76,892</b>	<b>17,820</b>	<b>94,712</b>	<b>98,001</b>	<b>-3.36%</b>	<b>\$ 0.46</b>	<b>\$ 0.58</b>	<b>\$ 1.05</b>
DVA-King	733,728	733,728	164,023	41,970	205,992	197,411	4.35%	\$ 0.92	\$ 1.14	\$ 2.06
<b>DVA-King</b>	<b>733,728</b>	<b>733,728</b>	<b>164,023</b>	<b>41,970</b>	<b>205,992</b>	<b>197,411</b>	<b>4.35%</b>	<b>\$ 0.92</b>	<b>\$ 1.14</b>	<b>\$ 2.06</b>
UW-Eau Claire	2,729,192	2,801,457	74,461	26,735	101,196	149,148	-32.15%	\$ 0.48	\$ 0.79	\$ 1.26
UW-Green Bay	1,386,058	1,386,058	87,520	35,531	123,051	174,522	-29.49%	\$ 0.48	\$ 0.94	\$ 1.43
UW-La Crosse	3,209,701	3,069,582	92,347	34,054	126,401	150,442	-15.98%	\$ 0.65	\$ 1.02	\$ 1.67
UW-Madison	23,091,606	23,025,678	144,056	63,672	207,728	294,776	-29.53%	\$ 1.03	\$ 2.17	\$ 3.21
UW-Milwaukee	6,204,204	6,204,204	89,992	37,011	127,003	171,927	-26.13%	\$ 0.44	\$ 1.10	\$ 1.54
UW-Oshkosh	3,288,596	3,288,596	83,907	25,315	109,223	136,452	-19.96%	\$ 0.44	\$ 0.62	\$ 1.07
UW-Parkside	1,374,576	1,374,576	80,404	28,582	108,986	146,123	-25.41%	\$ 0.44	\$ 0.87	\$ 1.32
UW-Platteville	2,233,502	2,134,293	100,618	28,417	129,035	139,216	-7.31%	\$ 0.61	\$ 0.75	\$ 1.36
UW-River Falls	1,684,447	1,684,447	93,767	11,450	105,217	124,558	-15.53%	\$ 0.63	\$ 0.34	\$ 0.97
UW-Stevens Point	2,806,271	2,806,271	123,569	27,043	150,612	164,136	-8.24%	\$ 0.71	\$ 0.67	\$ 1.38
UW-Stout	2,456,060	2,456,060	72,969	26,916	99,885	113,062	-11.66%	\$ 0.50	\$ 0.80	\$ 1.30
UW-Superior	1,107,876	1,107,876	115,128	27,357	142,485	162,010	-12.05%	\$ 0.73	\$ 0.69	\$ 1.42
UW-Whitewater	3,114,162	3,114,162	110,545	38,839	149,384	145,867	2.41%	\$ 0.62	\$ 1.14	\$ 1.76
UW-Eau Claire, Barron	146,683	146,683	83,022	21,455	104,477	93,920	11.24%	\$ 0.66	\$ 0.61	\$ 1.27
UW-Green Bay, Manitowoc	125,045	125,045	55,321	18,059	73,381	74,988	-2.14%	\$ 0.46	\$ 0.39	\$ 0.85
UW-Green Bay, Marinette	139,818	139,818	73,900	14,366	88,265	131,496	-32.88%	\$ 0.45	\$ 0.52	\$ 0.96
UW-Green Bay, Sheboygan	228,544	228,544	58,745	26,931	85,676	102,754	-16.62%	\$ 0.37	\$ 0.89	\$ 1.26
UW-Milwaukee, Washington	199,117	199,117	39,187	15,644	54,831	75,321	-27.20%	\$ 0.24	\$ 0.59	\$ 0.83
UW-Milwaukee, Waukesha	277,016	277,016	70,293	21,758	92,051	94,752	-2.85%	\$ 0.41	\$ 0.79	\$ 1.20
UW-Oshkosh, Fond du Lac	194,077	194,077	40,662	15,017	55,678	94,053	-40.80%	\$ 0.33	\$ 0.49	\$ 0.82
UW-Oshkosh, Fox Cities	277,988	277,988	61,439	26,371	87,810	113,923	-22.92%	\$ 0.42	\$ 0.81	\$ 1.24
UW-Platteville, Baraboo	179,291	179,291	61,181	23,473	84,654	88,823	-4.69%	\$ 0.53	\$ 0.86	\$ 1.38
UW-Platteville, Richland	104,825	104,825	65,678	25,356	91,034	116,252	-21.69%	\$ 0.57	\$ 0.78	\$ 1.35
UW-Stevens Point, Marshfield	153,555	153,555	80,450	25,025	105,475	103,850	1.56%	\$ 0.57	\$ 0.76	\$ 1.33
UW-Stevens Point, Wausau	327,695	327,695	69,772	18,975	88,746	119,478	-25.72%	\$ 0.39	\$ 0.59	\$ 0.98
UW-Whitewater, Rock	191,592	191,592	49,921	17,227	67,148	73,445	-8.57%	\$ 0.30	\$ 0.65	\$ 0.95
<b>UW</b>	<b>57,231,497</b>	<b>56,998,506</b>	<b>112,358</b>	<b>43,388</b>	<b>155,746</b>	<b>206,711</b>	<b>-24.66%</b>	<b>\$ 0.74</b>	<b>\$ 1.38</b>	<b>\$ 2.12</b>
<b>State Facilities Total</b>	<b>75,112,842</b>	<b>74,879,851</b>	<b>112,801</b>	<b>41,785</b>	<b>154,585</b>	<b>198,390</b>	<b>-22.08%</b>	<b>\$ 0.73</b>	<b>\$ 1.32</b>	<b>\$ 2.05</b>

## Appendix A - Weather Adjustments and Degree Days for Selected Locations

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### EXPLANATION:

A degree-day is a unit of measure representing one degree of declination from 65°F in the mean daily outdoor temperature. It is simply a way of measuring how hot or cold it has been over a 24-hour period. Whenever the average (or mean) temperature is below 65 degrees Fahrenheit, you have a heating degree day. Whenever the average is above 65-degree Fahrenheit, you have a cooling degree day.

If in a 24-hour period the high outside temperature was 70 degrees and the low was 50 degrees, then the mean temperature for that day was 60 degrees - halfway between 70 and 50 degrees. This is 5 degrees less than the base temperature of 65. Therefore, we can say that there was 5 heating degree days (HDD) for the period.

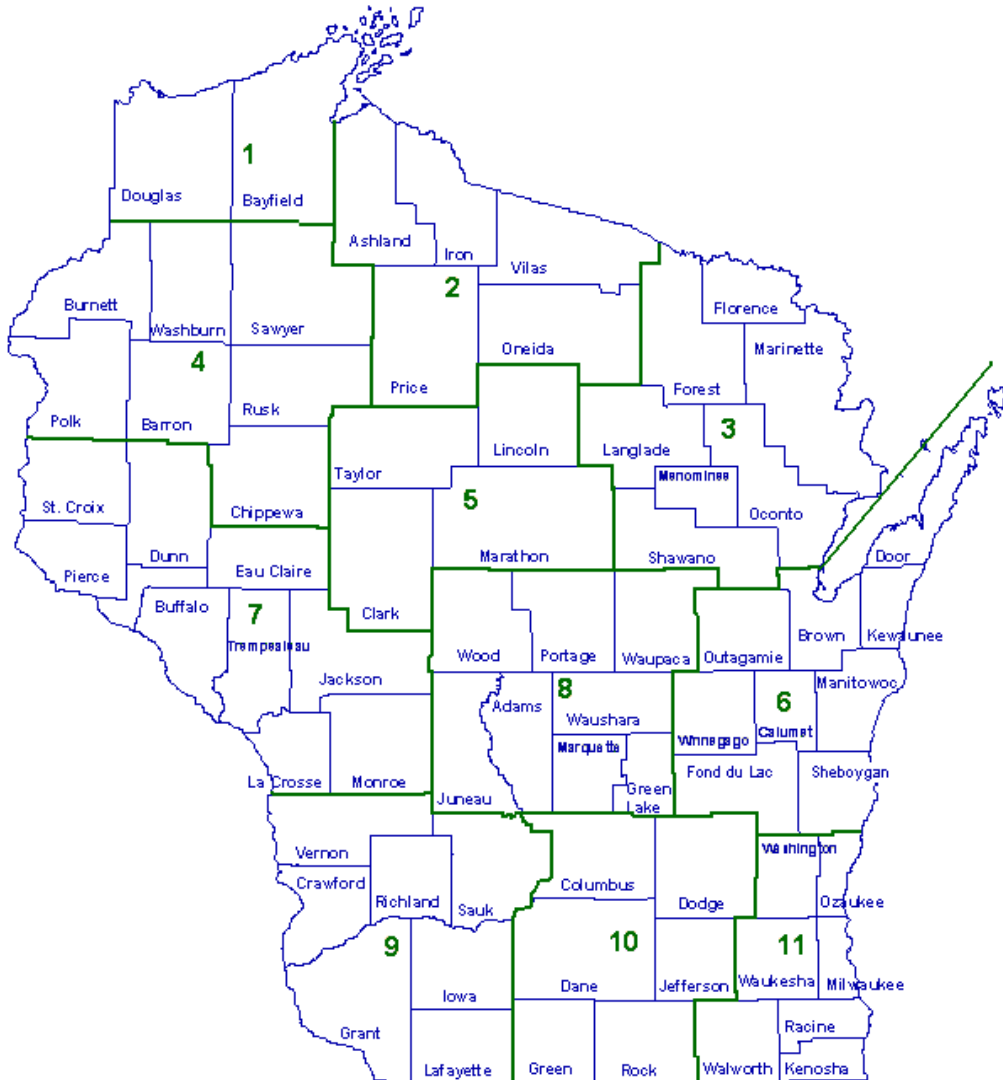
If in a 24-hour period the high outside temperature was 80 degrees and the low was 60 degrees, then the mean temperature for that day was 70 degrees - halfway between 60 and 80 degrees. This is 5 degrees more than the base temperature of 65. Therefore, we can say that there was 5 cooling degree days (CDD) for the period.

There is a direct relationship between heating degree days and the amount of energy required to heat a residence. As HDD increases, the fuel bills to heat a typical building will also likely increase. The opposite is true for CDD. Once the daily average temperature is above 65°, homes start using air conditioning. Higher cooling degree days mean the air conditioner stays on longer to keep the occupant comfortable resulting in higher cooling costs.

Similar to a modified degree day methodology, weather adjustments were based on polynomial equation curve fits of thermal and electric energy use versus mean monthly temperatures curve fit “models” to determine the weather adjustment factors. A widely used statistic to gage the goodness-of-fit of the model is the coefficient of determination  $R^2$ . A value of  $R^2 = 1$  indicates a perfect correlation between actual data and the regression equation; a value of  $R^2 = 0$  indicates no correlation. As a rule of thumb, the value of  $R^2$  should never be less than 0.75. In general, the thermal energy use for winter heating resulted in good correlation with  $R^2$  greater than 0.90 while electric energy use correlation did not correlate as well with  $R^2$  around 0.75. However, the weather-adjusted electric factors were small and did not significantly impact overall weather-adjustments.

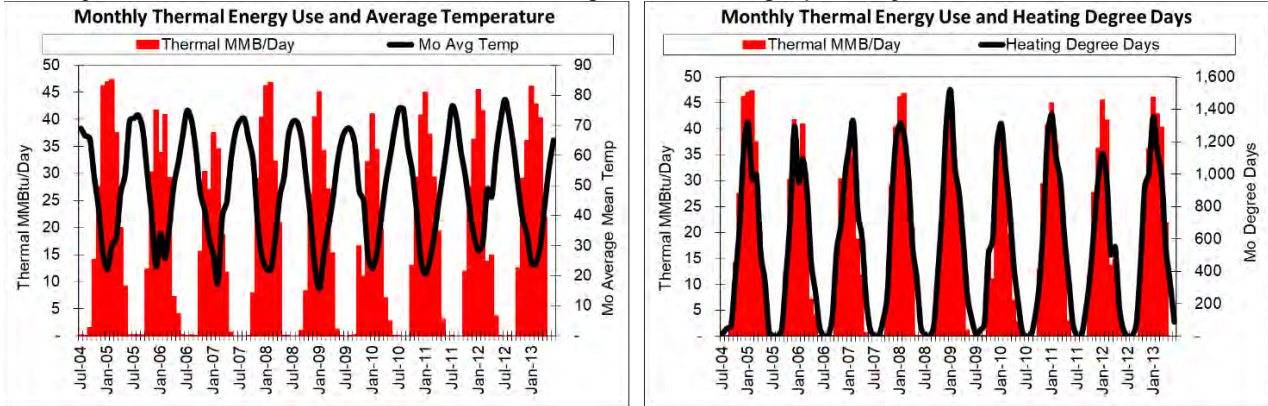
Degree-day and daily mean temperature data were obtained from the Wisconsin Office of Energy Innovation Heating, Cooling and Growing Degree Days website at <http://degreedays.wi.gov/>.

Heating and cooling degree day zone summaries are available for eleven geographic areas in Wisconsin that experience very similar temperatures throughout the year. The following table depicts the weather stations used for zone reporting. Notice that Zone 3 is an average of both Rhinelander which is inland, and Green Bay on the shores of Lake Michigan. (Zone 3 does not have good full-time weather stations and is influenced by both cold inland temperatures and maritime weather from Lake Superior and Lake Michigan).

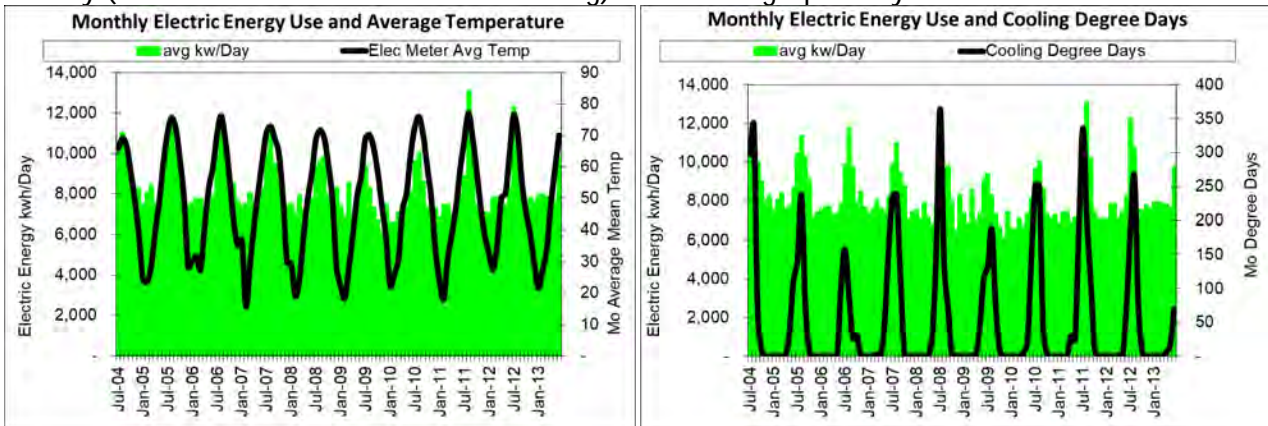


Zone	Weather Station
1	Ashland
2	Rhinelander
3	Rhinelander / Green Bay
4	Spoooner
5	Marshfield
6	Green Bay
7	Eau Claire
8	Hancock
9	Lancaster
10	Madison
11	Milwaukee

The relationships between thermal energy use to degree days and temperatures for a sample facility (DOA-Milwaukee State Office Building) are shown graphically below:



The relationships between electric energy use to degree days and temperatures for a sample facility (DOA-Milwaukee State Office Building) are shown graphically below:



As can be seen above, close to 100% of thermal energy is dependent on weather for winter space heating. However, approximately 10% of electric use is dependent on weather and varies with summer temperature for air conditioning building cooling. The ratio of annual Wisconsin heating degree day comparisons to FY2005 base year provide an indication of anticipated weather adjustments for a building's thermal energy:

**Heating Degree Days 65 Degree Base Compared to FY2005**

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
FY05	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
FY06	93%	93%	93%	91%	95%	94%	93%	95%	99%	99%	94%	95%
FY07	96%	101%	99%	104%	100%	97%	100%	98%	104%	104%	100%	100%
FY08	104%	110%	108%	115%	111%	106%	113%	109%	115%	112%	105%	108%
FY09	107%	112%	112%	117%	108%	112%	114%	112%	112%	113%	107%	111%
FY10	94%	97%	97%	106%	94%	97%	100%	100%	105%	103%	96%	98%
FY11	103%	107%	108%	116%	105%	108%	112%	113%	107%	110%	105%	108%
FY12	85%	96%	91%	91%	87%	84%	88%	86%	83%	87%	85%	86%
FY13	106%	116%	111%	117%	108%	105%	112%	111%	107%	109%	105%	108%
FY14	115%	129%	124%	130%	121%	120%	124%	122%	122%	121%	119%	121%
FY15	102%	119%	113%	114%	107%	107%	110%	110%	111%	111%	110%	110%
FY16	90%	99%	95%	98%	92%	90%	92%	94%	92%	93%	91%	92%
FY17	91%	101%	95%	99%	93%	87%	95%	95%	91%	94%	86%	90%
FY18	105%	115%	109%	118%	108%	102%	114%	109%	106%	109%	101%	106%
FY19	108%	117%	112%	121%	112%	106%	117%	113%	111%	113%	106%	110%
FY20	99%	110%	105%	111%	103%	100%	103%	106%	102%	103%	97%	101%
FY21	96%	108%	102%	109%	99%	96%	102%	102%	102%	106%	93%	99%
FY22	102%	113%	106%	115%	105%	98%	106%	106%	103%	103%	93%	100%
Norm	103%	107%	107%	112%	103%	108%	107%	108%	108%	110%	106%	107%

The ratio of annual Wisconsin cooling degree day comparisons to FY2005 base year provide an indication of anticipated weather adjustments for approximately 10% of a building's electrical energy:

**Cooling Degree Days 65 Degree Base Compared to FY2005**

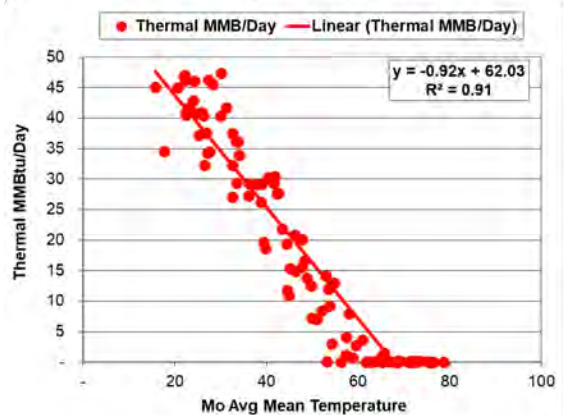
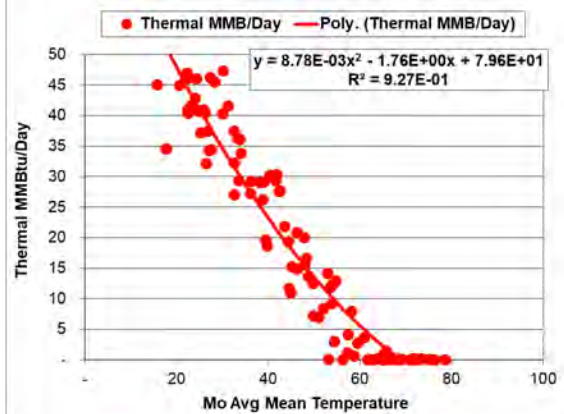
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
FY05	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
FY06	151%	160%	135%	162%	137%	119%	147%	135%	133%	128%	145%	137%
FY07	212%	146%	131%	154%	130%	121%	151%	137%	131%	118%	131%	130%
FY08	163%	114%	114%	107%	107%	115%	107%	113%	113%	116%	123%	117%
FY09	110%	89%	95%	101%	97%	100%	95%	93%	87%	97%	105%	100%
FY10	78%	62%	63%	66%	77%	62%	66%	68%	69%	72%	93%	78%
FY11	167%	123%	124%	107%	136%	127%	126%	118%	164%	139%	144%	136%
FY12	227%	122%	144%	135%	157%	160%	144%	150%	192%	163%	168%	162%
FY13	175%	87%	118%	131%	140%	140%	136%	146%	187%	157%	148%	147%
FY14	153%	87%	100%	114%	130%	108%	133%	113%	146%	128%	112%	118%
FY15	74%	28%	56%	69%	69%	71%	82%	65%	85%	93%	77%	78%
FY16	190%	85%	104%	105%	115%	117%	111%	104%	131%	120%	122%	119%
FY17	147%	87%	105%	92%	109%	119%	109%	108%	136%	126%	168%	137%
FY18	102%	75%	103%	95%	116%	123%	107%	105%	165%	112%	135%	123%
FY19	147%	93%	109%	110%	114%	118%	100%	105%	134%	113%	134%	121%
FY20	177%	87%	114%	101%	118%	134%	110%	129%	178%	127%	149%	136%
FY21	168%	104%	134%	130%	133%	156%	152%	132%	165%	141%	173%	157%
FY22	179%	75%	113%	104%	102%	139%	126%	100%	152%	138%	176%	148%
Norm	136%	99%	86%	94%	113%	84%	110%	100%	111%	96%	109%	102%

**Sample Weather Adjustment Calculation:**

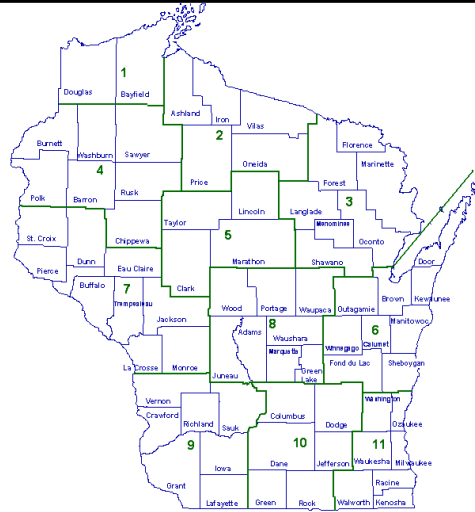
To account for the facility's weather adjustment energy use, the relationship between monthly temperature and energy use were evaluated by graphing the energy use as a function of temperature and calculating the curve fit. The example results shown to the right indicate that no heating energy is required above 61.5 degrees (temperature curve intercept). The R-Squared ( $R^2$ ) is a statistical term saying how good one term is at predicting another. Note the  $R^2$  for this example is 0.91 close to 1.0 and good curve fit. For this example, if the temperature was 25 degrees in FY05 base year month and 20 degrees in FY16, the adjustment factor would be calculated as:

- FY05 Month Thermal Use =  $-0.92 * 25 + 62.03$   
= 39.03 MMBtu/Day
- FY16 Month Thermal Use =  $-0.92 * 20 + 62.03$   
= 43.63 MMBtu/Day
- FY16 Adjustment Factor =  $39.03 / 43.63 =$   
0.895, the FY13 adjustment multiplier
- FY16 Weather Adjusted Use =  $43.63 * 0.895 =$   
39.05 MMBtu/Day or FY05 Base

Similar methodology was used for weather adjustments presented in this report but were based on second order polynomial equation curve fit. The same data above is plotted with at left with second order polynomial curve fit with a somewhat better  $R^2$  than the linear equation in the above example. The weather-adjusted electric factors were small and did not significantly impact overall weather-adjustments.



## Appendix B - Historical Degree Days Data for Regional Stations



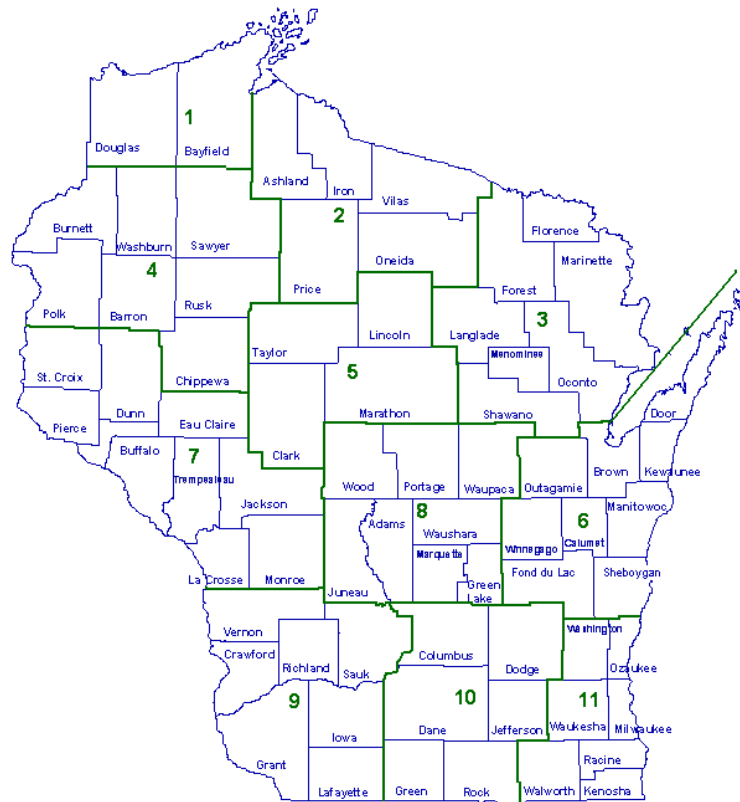
**Wisconsin Heating Degree Days**

Fiscal Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD	Ratio to FY05
Normal	9,033	8,828	8,395	8,628	8,106	7,955	7,959	7,917	7,574	7,333	6,894	7,528	107%
<b>FY05</b>	<b>8,769</b>	<b>8,220</b>	<b>7,847</b>	<b>7,685</b>	<b>7,857</b>	<b>7,335</b>	<b>7,409</b>	<b>7,317</b>	<b>7,003</b>	<b>6,641</b>	<b>6,517</b>	<b>7,005</b>	<b>100%</b>
FY06	8,173	7,615	7,324	6,989	7,493	6,884	6,903	6,939	6,939	6,587	6,155	6,652	95%
FY07	8,457	8,317	7,796	7,958	7,835	7,111	7,440	7,172	7,296	6,928	6,488	7,014	100%
FY08	9,160	9,072	8,478	8,810	8,686	7,743	8,382	7,956	8,025	7,453	6,872	7,600	108%
FY09	9,400	9,238	8,793	8,970	8,464	8,203	8,418	8,203	7,869	7,512	6,962	7,744	111%
FY10	8,275	7,988	7,628	8,163	7,348	7,107	7,413	7,340	7,333	6,828	6,236	6,891	98%
FY11	9,054	8,824	8,443	8,891	8,257	7,921	8,295	8,279	7,520	7,320	6,849	7,572	108%
FY12	7,422	7,899	7,103	6,992	6,870	6,174	6,484	6,319	5,796	5,772	5,526	6,030	86%
FY13	9,296	9,553	8,714	9,007	8,483	7,714	8,300	8,120	7,469	7,237	6,829	7,539	108%
FY14	10,127	10,584	9,758	10,017	9,509	8,771	9,167	8,952	8,510	8,057	7,742	8,472	121%
FY15	8,982	9,752	8,873	8,753	8,428	7,833	8,134	8,060	7,764	7,367	7,197	7,698	110%
FY16	7,907	8,105	7,441	7,499	7,221	6,622	6,843	6,877	6,452	6,198	5,909	6,445	92%
FY17	7,951	8,268	7,420	7,610	7,305	6,414	7,004	6,951	6,390	6,218	5,634	6,339	90%
FY18	9,223	9,439	8,530	9,067	8,463	7,451	8,465	7,942	7,448	7,212	6,586	7,404	106%
FY19	9,441	9,602	8,761	9,311	8,775	7,750	8,688	8,293	7,806	7,500	6,893	7,692	110%
FY20	8,670	9,044	8,262	8,506	8,122	7,311	7,638	7,722	7,117	6,825	6,299	7,062	101%
FY21	8,436	8,846	8,038	8,375	7,798	7,057	7,559	7,480	7,117	7,013	6,032	6,906	99%
FY22	8,957	9,260	8,298	8,835	8,255	7,168	7,864	7,776	7,188	6,853	6,033	6,997	100%
FY23	8,565	8,627	7,823	8,405	7,882	6,867	7,557	7,390	6,860	6,548	5,790	6,692	96%

**Wisconsin Cooling Degree Days**

Fiscal Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD	Ratio to FY05
Normal	288	331	366	410	456	398	579	510	536	568	641	540	102%
<b>FY05</b>	<b>212</b>	<b>334</b>	<b>426</b>	<b>438</b>	<b>402</b>	<b>475</b>	<b>527</b>	<b>510</b>	<b>485</b>	<b>589</b>	<b>588</b>	<b>529</b>	<b>100%</b>
FY06	321	534	573	710	549	565	773	690	646	754	855	727	137%
FY07	449	488	557	673	521	573	796	701	635	693	768	687	130%
FY08	345	382	486	470	429	545	562	575	549	683	721	618	117%
FY09	234	298	404	441	388	474	500	473	422	571	618	529	100%
FY10	165	208	270	288	311	295	349	348	337	424	549	412	78%
FY11	353	412	528	469	546	604	662	601	796	819	849	722	136%
FY12	482	409	614	591	631	760	760	766	933	958	986	855	162%
FY13	370	289	502	574	561	667	716	747	906	922	873	778	147%
FY14	324	290	424	500	521	512	700	576	707	752	658	623	118%
FY15	157	92	237	302	278	335	431	330	413	548	455	410	78%
FY16	403	283	443	461	463	556	586	528	634	706	719	627	119%
FY17	311	290	448	401	440	566	573	552	661	743	989	727	137%
FY18	217	251	439	417	465	583	564	535	800	657	791	649	123%
FY19	311	312	463	480	457	562	528	538	651	668	788	642	121%
FY20	376	289	486	442	473	636	580	656	861	748	874	717	136%
FY21	356	349	572	568	535	742	800	674	800	829	1,018	829	157%
FY22	379	250	482	454	409	659	664	510	739	815	1,034	782	148%
FY23	243	244	469	500	398	640	686	521	677	715	843	693	131%



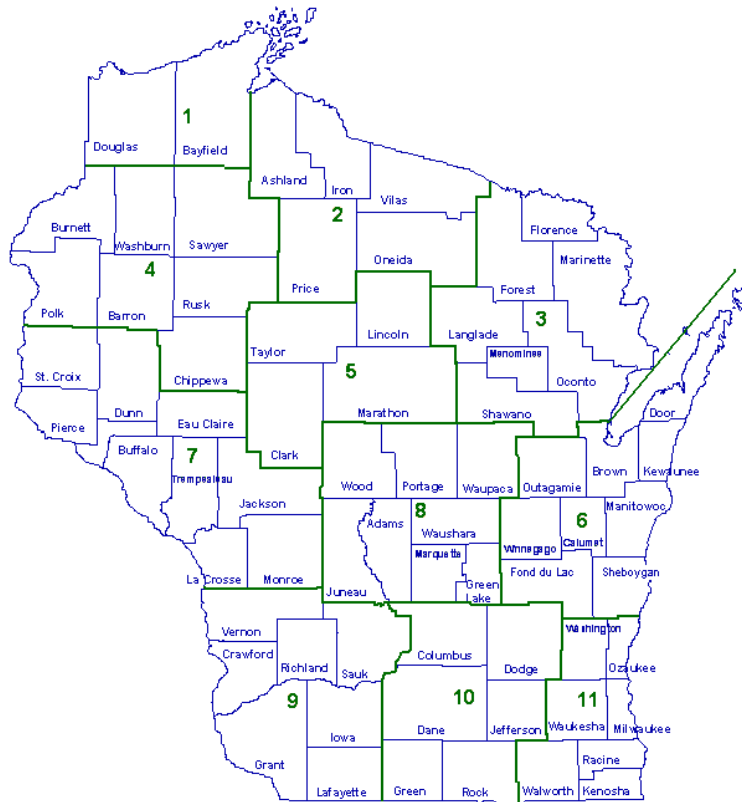


**FY2005 Monthly Wisconsin Heating Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
Jul-04	68	46	40	28	29	30	16	29	18	11	19	22
Aug-04	156	155	127	110	123	89	104	92	89	72	48	78
Sep-04	122	94	91	86	96	82	93	86	79	83	66	79
Oct-04	547	542	507	473	521	458	475	470	473	418	369	429
Nov-04	885	890	839	847	855	770	831	802	769	738	675	749
Dec-04	1,454	1,467	1,386	1,423	1,413	1,288	1,363	1,302	1,273	1,200	1,161	1,253
Jan-05	1,781	1,649	1,572	1,613	1,602	1,480	1,517	1,535	1,516	1,400	1,318	1,436
Feb-05	1,235	1,185	1,142	1,144	1,151	1,088	1,117	1,097	1,057	995	973	1,044
Mar-05	1,270	1,224	1,203	1,131	1,178	1,168	1,134	1,132	1,012	1,010	997	1,073
Apr-05	677	560	550	473	502	528	449	452	402	417	518	491
May-05	460	391	372	349	376	337	305	311	307	283	344	331
Jun-05	114	17	18	8	11	17	5	9	8	14	29	20
<b>Total</b>	<b>8,769</b>	<b>8,220</b>	<b>7,847</b>	<b>7,685</b>	<b>7,857</b>	<b>7,335</b>	<b>7,409</b>	<b>7,317</b>	<b>7,003</b>	<b>6,641</b>	<b>6,517</b>	<b>7,005</b>

**FY2023 Monthly Wisconsin Heating Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State HDD
Jul-22	52	26	15	9	5	-	1	3	-	-	-	2
Aug-22	34	50	29	14	15	1	3	7	3	5	-	5
Sep-22	239	260	199	192	194	127	154	171	138	127	89	129
Oct-22	551	619	528	562	558	423	524	514	483	456	379	447
Nov-22	950	986	897	966	903	794	910	921	796	784	656	779
Dec-22	1,467	1,526	1,397	1,588	1,468	1,251	1,455	1,359	1,366	1,247	1,080	1,250
Jan-23	1,379	1,379	1,300	1,438	1,344	1,203	1,344	1,252	1,250	1,172	1,014	1,169
Feb-23	1,282	1,307	1,208	1,371	1,257	1,092	1,237	1,159	1,115	1,051	926	1,069
Mar-23	1,227	1,250	1,185	1,273	1,149	1,107	1,125	1,072	997	967	888	1,016
Apr-23	825	783	689	734	662	579	620	618	512	525	477	555
May-23	410	335	293	215	276	238	158	273	167	173	237	225
Jun-23	149	106	83	43	51	52	26	41	33	41	44	46
<b>Total</b>	<b>8,565</b>	<b>8,627</b>	<b>7,823</b>	<b>8,405</b>	<b>7,882</b>	<b>6,867</b>	<b>7,557</b>	<b>7,390</b>	<b>6,860</b>	<b>6,548</b>	<b>5,790</b>	<b>6,692</b>
	-2.3%	5.0%	-0.3%	9.4%	0.3%	-6.4%	2.0%	1.0%	-2.0%	-1.4%	-11.2%	-4.5%



**FY2005 Monthly Wisconsin Cooling Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
Jul-04	79	97	112	129	123	116	159	138	133	155	151	140
Aug-04	21	30	56	53	46	73	71	68	69	91	105	83
Sep-04	29	60	73	83	64	79	100	88	72	93	93	87
Oct-04	-	-	-	-	-	-	1	-	-	2	2	1
Nov-04	-	-	-	-	-	-	-	-	-	-	-	-
Dec-04	-	-	-	-	-	-	-	-	-	-	-	-
Jan-05	-	-	-	-	-	-	-	-	-	-	-	-
Feb-05	-	-	-	-	-	-	-	-	-	-	-	-
Mar-05	-	-	-	-	-	-	-	-	-	-	-	-
Apr-05	-	-	1	8	-	1	4	4	3	2	4	3
May-05	-	2	3	3	1	3	4	4	4	7	4	4
Jun-05	83	145	181	162	168	203	188	208	204	239	229	211
<b>Total</b>	<b>212</b>	<b>334</b>	<b>426</b>	<b>438</b>	<b>402</b>	<b>475</b>	<b>527</b>	<b>510</b>	<b>485</b>	<b>589</b>	<b>588</b>	<b>529</b>

**FY2023 Monthly Wisconsin Cooling Degree Days**

Mo-Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	State CDD
Jul-22	98	94	164	168	130	218	222	159	223	246	285	234
Aug-22	78	45	119	96	82	179	156	107	162	180	260	190
Sep-22	21	18	48	48	43	68	68	58	82	81	132	89
Oct-22	-	-	1	2	-	2	-	1	1	3	4	2
Nov-22	-	-	-	-	-	-	-	-	-	-	4	1
Dec-22	-	-	-	-	-	-	-	-	-	-	-	-
Jan-23	-	-	-	-	-	-	-	-	-	-	-	-
Feb-23	-	-	-	-	-	-	-	-	-	-	-	-
Mar-23	-	-	-	-	-	-	-	-	-	-	-	-
Apr-23	-	-	9	4	8	16	21	12	12	19	18	16
May-23	7	4	12	24	12	16	20	21	27	22	18	18
Jun-23	39	83	116	158	123	141	199	163	170	164	122	143
<b>Total</b>	<b>243</b>	<b>244</b>	<b>469</b>	<b>500</b>	<b>398</b>	<b>640</b>	<b>686</b>	<b>521</b>	<b>677</b>	<b>715</b>	<b>843</b>	<b>693</b>
	14.6%	-26.9%	10.1%	14.2%	-1.0%	34.7%	30.2%	2.2%	39.6%	21.4%	43.4%	31.0%

## Appendix C - Historical Statewide Consumption Data

### Major Agency Comparison FY2023 to FY1973\*

Agency	FY1973 GSF	FY1973 Thermal Btu/GSF	FY1973 Electric Btu/GSF	FY1973 Total Btu/GSF
Universities of Wisconsin	31,498,261	192,180	42,581	234,761
Department of Administration	1,966,150	225,697	42,447	268,144
Department of Corrections	2,279,108	317,387	16,662	334,049
Department of Health Services	4,475,139	279,061	25,221	304,282
Department of Public Instruction	358,663	177,888	20,858	198,746
Department of Veterans Affairs	535,072	244,085	29,714	273,799
<b>Agencies Total</b>	<b>41,112,393</b>	<b>210,732</b>	<b>38,891</b>	<b>249,623</b>

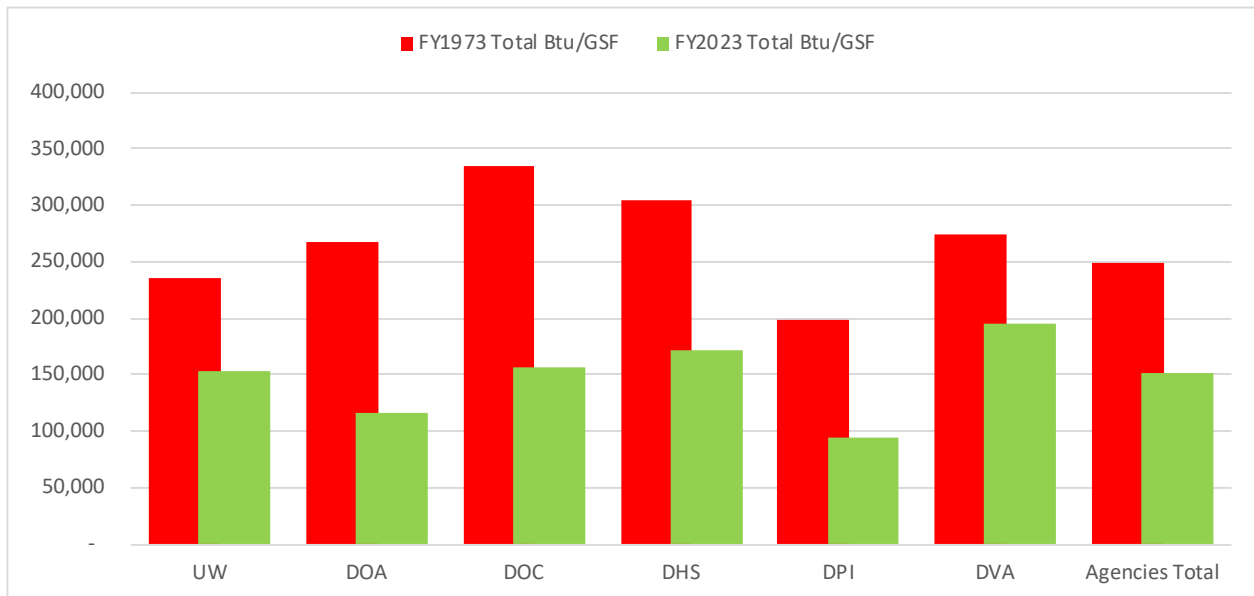
  

Agency	FY2023 GSF	FY2023 Thermal Btu/GSF	FY2023 Electric Btu/GSF	FY2023 Total Btu/GSF
Universities of Wisconsin	57,231,497	109,005	43,811	152,816
Department of Administration	4,202,931	74,254	41,346	115,599
Department of Corrections	7,939,611	118,201	37,864	156,064
Department of Health Services	4,159,400	139,676	32,105	171,781
Department of Public Instruction	441,183	76,405	17,800	94,206
Department of Veterans Affairs	733,728	153,565	41,868	195,433
<b>Agencies Total</b>	<b>74,708,350</b>	<b>109,980</b>	<b>42,216</b>	<b>152,196</b>

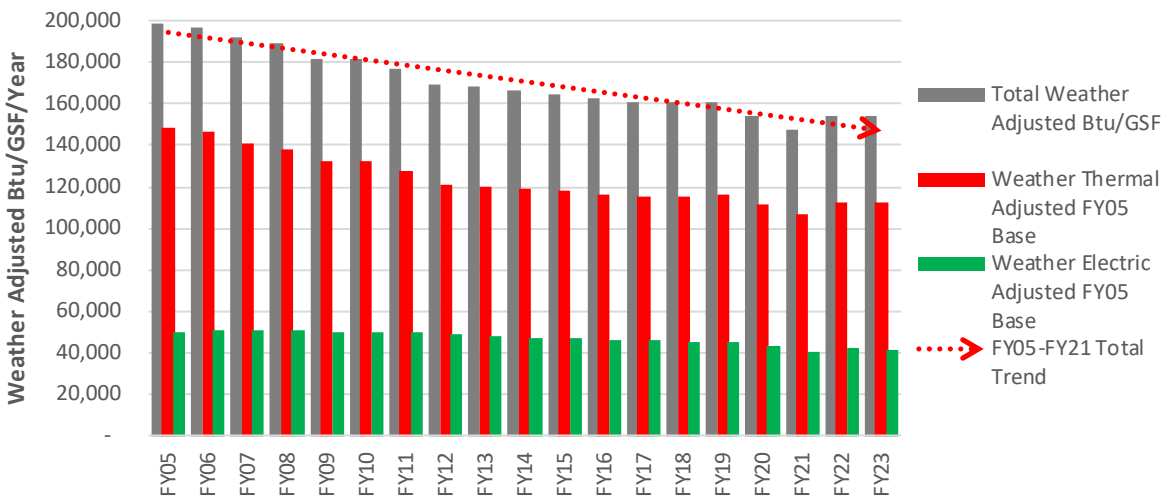
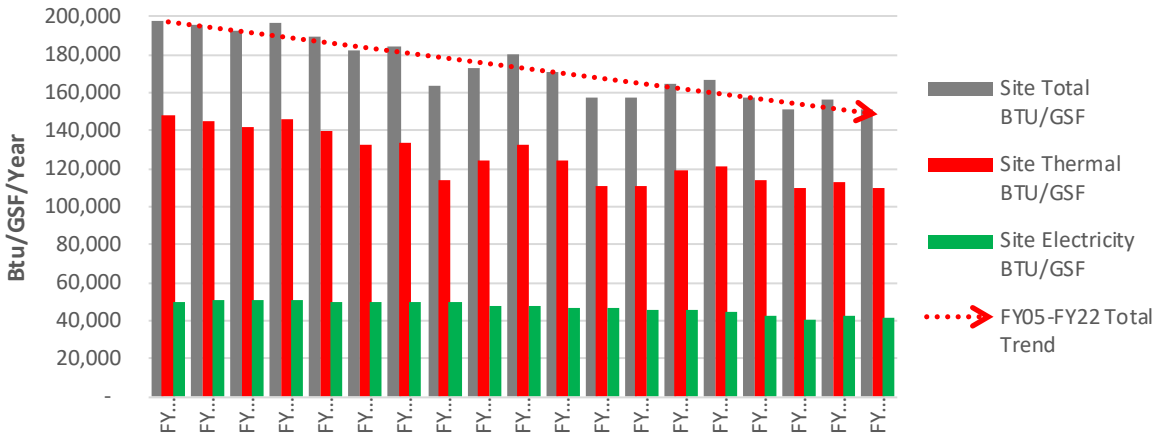
Agency	GSF % Change FY23 from FY73	Thermal % Change FY23 from FY73	Electric % Change FY23 from FY73	Energy % Change FY23 from FY73
Universities of Wisconsin	81.70%	-43.28%	2.89%	-34.91%
Department of Administration	113.76%	-67.10%	-2.59%	-56.89%
Department of Corrections	248.36%	-62.76%	127.25%	-53.28%
Department of Health Services	-7.06%	-49.95%	27.29%	-43.55%
Department of Public Instruction	23.01%	-57.05%	-14.66%	-52.60%
Department of Veterans Affairs	37.13%	-37.09%	40.90%	-28.62%
<b>Agencies Total</b>	<b>81.72%</b>	<b>-47.81%</b>	<b>8.55%</b>	<b>-39.03%</b>

\* FY1973 was start of State of Wisconsin Energy Conservation Program and State Energy Report monitoring.



**Statewide Facilities Total Fiscal Year 2023 Total State Agency Total (FY05 Base)**

Fiscal Year	Gross Square Feet (GSF)	Site Thermal BTU/GSF	Site Electricity BTU/GSF	Site Total BTU/GSF	% Change From FY05 Base	Weather Thermal Adjusted FY05 Base	Weather Electric Adjusted FY05 Base	Total Weather Adjusted Btu/GSF	% Adj Change From FY05
FY05	64,753,150	148,686	49,704	198,390	0.0%	148,686	49,704	198,390	0.0%
FY06	65,405,533	145,097	51,086	196,183	-1.1%	146,227	50,807	197,034	-0.7%
FY07	66,508,886	141,908	50,876	192,785	-2.8%	141,112	50,770	191,882	-3.3%
FY08	67,703,290	145,897	50,932	196,829	-0.8%	138,453	50,713	189,166	-4.6%
FY09	68,186,861	139,820	49,815	189,636	-4.4%	132,206	49,792	181,998	-8.3%
FY10	68,774,525	133,168	49,479	182,648	-7.9%	132,034	49,631	181,664	-8.4%
FY11	69,655,003	133,843	50,379	184,223	-7.1%	127,249	50,154	177,403	-10.6%
FY12	71,400,599	114,015	49,671	163,686	-17.5%	120,753	48,966	169,719	-14.5%
FY13	72,698,283	124,822	47,863	172,685	-13.0%	120,468	47,738	168,206	-15.2%
FY14	73,275,335	132,656	47,479	180,134	-9.2%	118,804	47,313	166,117	-16.3%
FY15	73,553,273	124,575	46,752	171,327	-13.6%	118,259	46,835	165,093	-16.8%
FY16	74,064,464	111,322	46,717	158,039	-20.3%	115,937	46,439	162,377	-18.2%
FY17	74,080,246	111,225	46,295	157,520	-20.6%	115,318	45,710	161,028	-18.8%
FY18	73,838,150	119,660	45,532	165,192	-16.7%	115,169	45,445	160,614	-19.0%
FY19	74,054,921	121,591	44,753	166,344	-16.2%	115,863	44,754	160,617	-19.0%
FY20	74,749,271	114,355	42,821	157,176	-20.8%	111,685	42,855	154,541	-22.1%
FY21	75,060,520	109,698	41,179	150,877	-23.9%	106,994	40,898	147,892	-25.5%
FY22	74,879,851	113,201	43,140	156,341	-21.2%	112,039	42,392	154,431	-22.2%
FY23	75,112,842	109,621	42,137	151,758	-23.5%	112,801	41,785	154,585	-22.1%



## Appendix D - Facility and Building Data/Cost Reports

The success of the state's energy and fuel management efforts are directly dependent on efforts of the many people who operate and maintain the central plants and distribution systems, as well as those managers and occupants of individual buildings. The Wisconsin State Energy Office and Department of Administration have lead roles in developing and overseeing these efforts. Energy Use in State Facilities Report support includes assisting agencies in providing benchmarking and monitoring analysis reports to measure impact of State Energy Conservation Program energy conservation efforts.

The State Energy Report services includes review and benchmarking analysis of individual facilities and buildings' energy use and renewable resources. As previously discussed, benchmarking is the process of accounting for and comparing a metered building's current energy performance with its historical energy use and trends. Benchmarking is used to compare performance over time to evaluate energy use changes:

- Changes in Building Area from Demolitions, Additions & Remodeling.
- Results from Energy Conservation Measures.
- Changes in Building Occupancy and Schedules.
- Changes in Building System Operation and Equipment Schedules.
- Controls or Temperature Set-Points.
- Measure Renewable Energy Solar PV & Purchase Contributions.

Energy Use Intensity (EUI) benchmarks are used to compare energy use to similar facilities and measure the year-to-year changes in energy use from conservation efforts. Monitored building energy consumption includes electricity and thermal or natural gas. Site Energy Use Intensity (EUI) are calculated and presented as Btu per building area gross square feet per year (Btu/GSF or Btu/Ft<sup>2</sup>). Similar benchmarks include electric kwh/GSF and fuel use therm/GSF benchmarks. Some facilities' energy use and costs have trended upward as a result of changes in building system operation, equipment schedules, controls or set points. These modifications are often made to maintain occupant comfort in certain areas, requiring increased overall building HVAC, fan and reheat systems energy use. System adjustments and summer boiler shutdown may be made by building operating staff that resulted in significant savings that can be seen in the monthly EUI Btu/GSF benchmarks. Five to ten-year monthly (Mo.) energy use benchmarks Btu/GSF/Year are summarized and evaluated to identify actual changes in energy use and trends. Also, can be used to evaluate the energy use associated with Covid-19 shutdowns and unoccupied facilities.

Attached are sample benchmarking analysis and data reports provided for facility and building energy managers:

- UW Fiscal Year Fuel Use Therm/GSF Benchmarks.
- UW Fiscal Year Electric Use kwh/GSF Benchmarks.
- UW Fiscal Year Electric Use MWh per Year (1000 kwh/Year).
- State Facility & Agency FY05-FY23 Thermal Analysis Therm/GSF Benchmarks.
- State Facility & Agency FY05-FY23 Electric Analysis kwh/GSF Benchmarks.
- State Facility & Agency Average Electric Energy Prices (\$/kwh).
- State Facility & Agency Average Thermal Energy Prices (\$/MMBtu).

Note - Thermal Fuel Use = 1 Therm = 100,000 Btu = 0.1 MMBtu (million Btu) = 100 kBtu (1000 Btu).

Fiscal Year Fuel Use Therm/GSF Benchmarks (1 Therm = 100,000 Btu = 0.1 MMBtu (million Btu)):																	Change			
	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY05- FY23
UW-Eau Claire	1.09	1.00	0.98	0.99	0.95	0.89	0.96	0.80	0.90	0.95	0.86	0.76	0.74	0.76	0.87	0.76	0.73	0.79	0.75	-30.8%
UW-Green Bay	1.20	1.03	0.89	0.85	0.82	0.79	0.84	0.76	0.87	0.95	0.89	0.77	0.78	0.81	0.83	0.79	0.81	0.85	0.83	-30.6%
UW-La Crosse	1.12	1.13	1.07	1.07	1.10	1.05	1.14	0.92	1.00	1.10	1.02	0.88	0.86	0.90	1.04	0.88	0.89	0.89	0.91	-18.6%
UW-Madison	2.26	2.28	2.18	2.23	2.02	1.99	1.92	1.61	1.75	1.82	1.71	1.53	1.52	1.63	1.67	1.60	1.53	1.54	1.42	-37.3%
UW-Milwaukee	1.21	1.13	1.19	1.27	1.31	1.19	1.14	0.92	0.94	0.98	1.03	0.87	0.90	0.95	0.94	0.87	0.85	0.84	0.83	-31.4%
UW-Oshkosh	0.97	0.90	0.92	0.96	0.95	0.92	0.90	0.85	0.93	1.02	0.90	0.79	0.74	0.84	0.87	0.80	0.77	0.79	0.77	-20.8%
UW-Parkside	0.97	0.93	0.93	0.96	0.96	0.91	1.00	0.87	0.97	1.06	1.05	0.94	0.90	0.93	0.97	0.82	0.73	0.68	0.74	-23.5%
UW-Platteville	1.03	1.01	0.92	0.98	1.00	0.95	1.04	0.88	1.04	1.05	0.96	0.84	0.84	0.97	1.07	1.01	0.92	0.97	0.99	-4.3%
UW-River Falls	0.92	0.89	0.88	0.91	0.86	0.78	0.83	0.67	0.78	0.81	0.79	0.73	0.74	0.84	0.84	0.81	0.72	0.79	0.86	-7.4%
UW-Stevens Point	1.28	1.19	1.13	1.19	1.20	1.11	1.20	1.02	1.15	1.26	1.18	1.03	1.03	1.11	1.21	1.07	1.05	1.13	1.24	-3.6%
UW-Stout	0.80	0.74	0.74	0.82	0.82	0.81	0.90	0.71	0.89	0.92	0.80	0.73	0.72	0.80	0.83	0.80	0.73	0.76	0.74	-8.0%
UW-Superior	1.31	1.13	1.22	1.29	1.28	1.35	1.42	1.20	1.26	1.43	1.26	1.13	1.14	1.21	1.16	1.17	0.97	1.09	1.08	-17.7%
UW-Whitewater	1.10	1.09	0.95	0.89	0.96	0.91	0.94	0.86	0.99	1.10	0.96	0.88	0.91	0.99	1.06	0.86	0.76	1.00	1.03	-6.9%
UW-Eau Claire, Barron	0.69	0.50	0.60	0.62	0.61	0.55	0.66	0.51	0.70	0.69	0.65	0.61	0.63	0.72	0.75	0.68	0.72	0.80	0.75	9.3%
UW-Green Bay, Manitowoc	0.49	0.42	0.41	0.41	0.44	0.39	0.44	0.36	0.48	0.53	0.46	0.42	0.41	0.46	0.53	0.44	0.47	0.49	0.52	7.4%
UW-Green Bay, Marinette	0.98	0.85	0.86	0.83	0.89	0.75	0.87	0.71	0.81	0.96	0.89	0.78	0.81	0.86	1.01	0.70	0.69	0.71	0.71	-28.0%
UW-Green Bay, Sheboygan	0.72	0.52	0.58	0.65	0.75	0.73	0.78	0.64	0.74	0.84	0.85	0.52	0.69	0.49	0.52	0.42	0.33	0.38	0.56	-22.6%
UW-Milwaukee, Washington	0.42	0.47	0.51	0.43	0.44	0.41	0.42	0.31	0.38	0.42	0.34	0.26	0.31	0.34	0.32	0.33	0.29	0.31	0.35	-16.5%
UW-Milwaukee, Waukesha	0.60	0.53	0.56	0.59	0.54	0.46	0.49	0.43	0.53	0.60	0.45	0.53	0.67	0.66	0.65	0.64	0.61	0.63	0.65	8.7%
UW-Oshkosh, Fond du Lac	0.58	0.45	0.37	0.42	0.43	0.36	0.39	0.31	0.40	0.45	0.44	0.40	0.43	0.51	0.54	0.41	0.39	0.43	0.39	-32.9%
UW-Oshkosh, Fox Cities	0.81	0.66	0.69	0.75	0.60	0.57	0.57	0.55	0.66	0.70	0.54	0.36	0.22	0.40	0.40	0.39	0.41	0.42	0.57	-28.8%
UW-Platteville, Baraboo	0.60	0.55	0.57	0.49	0.56	0.52	0.56	0.53	0.53	0.65	0.66	0.52	0.60	0.65	0.71	0.61	0.54	0.54	0.61	1.9%
UW-Platteville, Richland	0.84	0.62	0.73	0.63	0.67	0.49	0.43	0.42	0.61	0.78	0.74	0.56	0.55	0.56	0.63	0.77	0.92	0.74	0.60	-28.2%
UW-Stevens Point, Marshfield	0.74	0.59	0.68	0.70	0.73	0.59	0.68	0.54	0.68	0.82	0.76	0.64	0.70	0.73	0.74	0.64	0.76	0.85	0.83	12.0%
UW-Stevens Point, Wausau	0.83	0.76	0.82	0.98	0.80	0.66	0.69	0.60	0.64	0.62	0.67	0.50	0.53	0.50	0.64	0.61	0.53	0.59	0.64	-23.6%
UW-Whitewater, Rock	0.48	0.44	0.46	0.49	0.62	0.54	0.55	0.50	0.53	0.57	0.56	0.46	0.48	0.50	0.59	0.53	0.41	0.41	0.45	-6.8%
UW	1.55	1.52	1.47	1.51	1.43	1.37	1.37	1.16	1.27	1.34	1.26	1.11	1.11	1.19	1.24	1.15	1.10	1.13	1.09	-29.8%

Fiscal Year Fuel Therm/GSF Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

Fiscal Year Electric Use kwh/GSF Benchmarks:																	Change			
	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY05- FY23
UW-Eau Claire	11.87	12.55	11.30	10.89	10.23	9.59	9.78	9.93	9.45	9.04	8.62	8.52	8.23	8.01	7.90	7.33	7.36	7.93	7.85	-33.9%
UW-Green Bay	15.88	15.44	14.64	13.39	12.96	12.39	12.50	12.45	12.24	11.81	11.38	11.13	11.07	10.97	11.00	10.27	10.31	10.87	10.46	-34.2%
UW-La Crosse	11.28	12.03	11.62	11.14	11.11	10.47	11.89	10.73	10.16	10.62	9.75	10.72	9.11	9.60	10.73	9.33	9.68	10.44	10.11	-10.4%
UW-Madison	20.13	21.23	21.23	21.21	20.60	21.00	21.62	21.15	20.34	20.17	19.89	19.92	20.04	19.65	19.24	18.68	18.15	18.89	18.83	-6.5%
UW-Milwaukee	14.93	15.70	15.81	16.10	15.90	15.26	14.76	14.08	12.36	11.83	12.17	12.17	12.16	12.08	11.98	11.36	10.97	11.75	11.03	-26.2%
UW-Oshkosh	11.45	11.15	10.93	10.57	10.32	10.37	9.94	10.42	10.20	10.06	9.39	8.97	8.72	8.53	8.42	7.55	7.12	8.12	7.54	-34.2%
UW-Parkside	14.32	14.21	13.89	13.78	12.91	12.51	12.77	12.74	11.84	11.78	11.44	11.37	10.96	10.55	10.17	8.83	9.20	8.88	8.47	-40.9%
UW-Platteville	10.55	10.87	10.29	10.56	10.62	11.13	11.08	10.28	9.82	9.36	9.17	8.94	9.21	9.00	9.23	9.12	9.01	9.75	8.44	-20.0%
UW-River Falls	9.41	9.34	8.93	8.75	8.24	7.87	7.80	7.51	7.55	7.38	7.04	6.89	7.07	6.96	6.85	6.65	3.40	3.49	3.37	-64.2%
UW-Stevens Point	10.56	10.46	10.00	10.23	9.91	10.05	10.57	10.21	9.99	10.11	10.05	10.11	9.07	9.45	9.66	8.37	7.85	8.58	7.90	-25.2%
UW-Stout	9.55	9.43	8.95	8.78	8.78	9.27	9.18	9.09	9.53	9.01	9.10	9.02	8.84	8.92	8.54	7.81	7.74	8.18	7.87	-17.6%
UW-Superior	9.03	8.71	8.59	8.76	8.88	9.75	9.56	10.14	9.73	9.13	9.55	9.53	9.13	9.07	8.92	8.62	7.27	7.97	8.01	-11.3%
UW-Whitewater	10.45	10.45	11.30	11.18	11.13	11.16	11.21	11.11	11.01	11.22	11.14	11.41	11.25	11.04	11.18	11.01	10.01	11.08	11.60	11.1%
UW-Eau Claire, Barron	7.31	7.16	8.33	7.69	7.50	7.20	7.33	6.98	6.66	6.70	7.34	6.71	5.25	5.78	5.75	5.83	6.32	6.88	6.31	-13.7%
UW-Green Bay, Manitowoc	7.71	7.06	6.41	6.50	6.60	6.31	6.78	6.92	7.00	6.98	6.62	6.73	7.04	5.67	6.06	5.13	4.70	5.28	5.28	-31.6%
UW-Green Bay, Marinette	9.84	9.05	9.41	9.01	8.90	8.14	8.44	8.23	8.33	7.71	6.72	6.33	6.16	6.51	6.97	4.89	4.34	4.78	4.22	-57.2%
UW-Green Bay, Sheboygan	8.96	8.15	9.70	8.74	9.72	10.95	10.08	9.61	10.02	9.51	10.30	10.54	10.76	10.06	9.76	7.53	7.55	7.68	7.96	-11.2%
UW-Milwaukee, Washington	9.71	10.01	10.12	8.54	8.65	8.07	8.07	8.01	8.13	5.87	5.67	5.77	5.72	5.51	5.12	4.97	4.53	4.58	4.65	-52.1%
UW-Milwaukee, Waukesha	10.25	9.70	10.62	10.74	10.53	9.58	9.66	9.79	10.46	8.45	6.88	7.68	7.88	7.41	6.99	6.28	5.98	6.75	6.42	-37.4%
UW-Oshkosh, Fond du Lac	10.65	8.97	7.26	7.41	7.48	6.13	6.16	5.76	5.76	5.77	5.55	5.07	5.46	5.31	5.35	4.86	3.98	4.53	4.43	-58.4%
UW-Oshkosh, Fox Cities	9.72	11.64	11.54	12.47	10.73	12.30	12.48	12.91	13.59	13.92	12.09	10.01	9.11	9.64	10.93	9.52	7.76	8.28	7.83	-19.4%
UW-Platteville, Baraboo	8.42	8.46	8.03	8.77	8.88	8.67	9.70	10.10	8.69	7.56	7.61	7.23	6.99	7.10	7.34	6.99	6.10	6.19	6.89	-18.2%
UW-Platteville, Richland	9.44	9.96	9.93	8.92	5.39	5.05	5.08	5.08	11.45	11.43	10.38	10.71	9.48	8.70	8.98	8.45	7.83	7.57	7.51	-20.4%
UW-Stevens Point, Marshfield	8.69	9.01	8.71	8.19	9.07	8.18	8.27	8.03	8.89	8.85	8.38	9.23	9.41	7.56	7.10	6.25	7.87	8.89	7.28	-16.2%
UW-Stevens Point, Wausau	10.55	10.53	12.52	10.39	9.84	9.08	8.98	9.14	7.87	7.81	8.10	7.56	7.21	7.05	6.92	5.96	5.72	5.74	5.60	-46.9%
UW-Whitewater, Rock	7.31	7.15	7.22	6.23	5.61	5.73	5.39	5.70	5.46	5.48	5.36	5.38	4.72	4.69	4.57	4.18	3.15	3.34	5.09	-30.4%
UW	15.09	15.60	15.49	15.43	15.06	15.10	15.39	15.10	14.48	14.28	14.05	14.03	13.89	13.68	13.55	12.86	12.39	13.09	12.84	-14.9%

Electric kwh/GSF Benchmark Heat Mapping Color Coding (Red High and Green Best) - M&V Goal trend from Red/Yellow to Green.

Fiscal Year Electric Use MWh per Year (1000kwh/Year):															
	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY23%
UW-Eau Claire	23,363	23,825	24,341	23,183	23,822	22,700	22,436	21,683	21,101	20,806	20,425	20,502	22,215	21,418	2.92%
UW-Green Bay	17,172	17,332	17,251	16,971	16,376	15,769	15,424	15,340	15,205	15,245	14,234	14,291	15,072	14,492	1.97%
UW-La Crosse	23,672	26,874	28,724	27,197	28,435	27,282	32,242	27,398	28,899	32,283	29,920	31,184	32,049	32,437	4.42%
UW-Madison	434,203	456,522	468,542	454,891	459,982	456,020	456,704	459,943	447,083	437,537	427,189	417,802	434,930	434,752	59.18%
UW-Milwaukee	78,215	75,634	72,139	74,506	71,395	74,009	75,533	75,477	74,997	74,382	70,481	68,057	72,879	68,403	9.31%
UW-Oshkosh	29,304	28,749	30,145	30,614	30,184	29,353	29,251	28,412	27,810	27,442	24,829	23,408	26,692	24,794	3.37%
UW-Parkside	14,893	15,199	16,076	14,949	14,869	14,439	14,355	13,834	13,316	12,836	12,139	12,651	12,205	11,639	1.58%
UW-Platteville	22,834	22,944	21,281	20,336	21,002	20,587	20,057	20,669	20,194	20,725	19,442	19,221	20,806	18,853	2.57%
UW-River Falls	13,267	13,163	13,272	13,361	13,066	12,462	12,198	12,504	12,307	12,112	11,207	5,723	5,886	5,676	0.77%
UW-Stevens Point	24,664	26,028	26,850	26,269	26,600	26,424	26,577	23,849	24,842	25,412	23,484	22,039	24,068	22,168	3.02%
UW-Stout	21,567	22,347	22,219	23,319	22,058	22,293	22,118	21,686	21,867	20,934	19,190	18,998	20,092	19,324	2.63%
UW-Superior	10,069	9,869	11,017	10,591	10,061	10,516	10,672	10,227	10,159	9,990	9,581	8,053	8,828	8,871	1.21%
UW-Whitewater	30,306	32,757	32,574	32,392	33,031	32,792	33,577	33,098	32,477	32,889	32,657	31,177	34,501	36,135	4.92%
UW-Eau Claire, Barron	1,056	1,076	1,023	978	983	1,077	985	770	848	843	855	927	1,008	926	0.13%
UW-Green Bay, Manitowoc	790	848	866	875	873	828	842	880	709	758	642	587	660	660	0.09%
UW-Green Bay, Marinette	879	912	888	899	832	726	684	665	703	753	684	607	669	589	0.08%
UW-Green Bay, Sheboygan	2,201	2,026	1,930	2,012	1,911	2,069	2,117	2,162	2,020	1,961	1,721	1,725	1,754	1,819	0.25%
UW-Milwaukee, Washington	1,607	1,606	1,595	1,618	1,168	1,129	1,148	1,138	1,096	1,020	989	901	911	925	0.13%
UW-Milwaukee, Waukesha	2,654	2,677	2,711	2,897	2,341	1,907	2,128	2,183	2,053	1,937	1,741	1,658	1,870	1,779	0.24%
UW-Oshkosh, Fond du Lac	1,190	1,195	1,117	1,117	1,120	1,077	985	1,060	1,030	1,039	944	772	879	860	0.12%
UW-Oshkosh, Fox Cities	3,371	3,421	3,538	3,726	3,814	3,315	2,742	2,496	2,641	2,996	2,647	2,157	2,301	2,177	0.30%
UW-Platteville, Baraboo	1,309	1,465	1,526	1,312	1,141	1,149	1,197	1,158	1,176	1,216	1,254	1,093	1,110	1,235	0.17%
UW-Platteville, Richland	549	552	553	1,245	1,243	1,129	1,165	1,031	946	977	885	820	794	787	0.11%
UW-Stevens Point, Marshfield	1,227	1,240	1,205	1,334	1,328	1,256	1,384	1,411	1,134	1,065	960	1,208	1,366	1,118	0.15%
UW-Stevens Point, Wausau	2,977	2,941	2,995	2,578	2,558	2,654	2,477	2,364	2,310	2,269	1,952	1,874	1,880	1,835	0.25%
UW-Whitewater, Rock	1,098	1,033	1,091	1,046	1,051	1,027	1,030	904	899	876	801	604	640	975	0.13%
<b>UW</b>	<b>764,438</b>	<b>792,236</b>	<b>805,470</b>	<b>790,218</b>	<b>791,244</b>	<b>783,990</b>	<b>790,026</b>	<b>782,342</b>	<b>767,822</b>	<b>760,301</b>	<b>730,850</b>	<b>708,039</b>	<b>746,064</b>	<b>734,648</b>	<b>100.00%</b>



FY05-FY23 Thermal Analysis		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
Agency	Agency-Facility	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF
DHS	DHS-Mendota	237.98	236.21	242.07	255.71	248.51	231.68	240.21	225.82	230.26	234.13	231.77	244.58	221.33	264.21	224.99	201.74	215.25	222.58	198.50
DHS	DHS-Northern Center	140.34	125.77	116.60	118.34	145.20	135.60	137.81	141.38	142.40	147.90	132.46	116.62	117.85	121.38	123.13	103.34	109.78	116.03	129.40
DHS	DHS-Sand Ridge	102.79	89.31	97.07	101.39	124.82	87.52	93.22	71.29	87.05	96.94	95.64	83.54	74.37	90.99	92.42	95.71	87.22	100.73	89.61
DHS	DHS-Southern Center	142.72	135.31	149.55	159.25	158.02	146.83	149.15	132.49	154.83	152.12	147.44	139.24	136.75	144.12	148.45	141.82	135.26	131.23	117.16
DHS	DHS-Winnebago	139.66	134.74	139.04	135.32	131.83	121.22	135.86	117.68	117.75	122.06	107.84	96.58	98.64	101.74	105.42	103.39	105.27	106.90	105.33
DNR	DNR-Darwin Road	46.62	43.87	44.69	51.37	53.77	44.95	31.26	22.43	34.46	41.69	37.40	29.69	30.44	32.72	34.14	37.09	34.63	40.40	31.97
DNR	DNR-Green Bay		21.41	22.24	23.08	23.75	20.38	25.89	23.12	27.61	35.48	33.52	27.64	29.96	34.80	39.13	32.93	40.16	28.94	32.34
DNR	DNR-SE Milwaukee	56.75	48.37	49.49	58.87	53.91	50.30	50.88	48.12	51.93	58.95	45.94	32.15	36.88	35.35	35.75	40.44	40.98		
DNR	DNR-South Central	130.69	129.57	99.15	108.71	111.07	99.82	123.15	115.51	137.04	145.62	127.21	118.70	122.61	103.03	105.21	106.71	92.86	104.57	98.26
DNR	DNR-Tomahawk	48.81	52.65	47.74	60.93	49.90	38.58	43.32	32.80	45.85	54.54	52.47	42.25	44.74	54.44	59.69	53.23	52.67	66.43	55.81
DOA	DOA-Air Services	96.32	84.25	98.20	90.48	101.23	90.70	99.60	73.39	99.30	119.83	110.97	93.58	77.49	74.45	98.28	64.13	48.95	88.44	90.61
DOA	DOA-Badger Road	50.47	51.43	54.17	58.03	52.04	45.02	50.45	45.59	51.96	59.78	52.91	46.53	53.29						
DOA	DOA-Capitol Complex	112.98	116.43	109.51	110.54	89.08	82.64	73.32	38.39	45.32	51.41	49.12	46.60	56.36	57.58	46.30	63.78	61.06	71.54	88.66
DOA	DOA-Central Services	68.83	67.68	68.14	68.12	78.88	67.05	75.43	67.12	75.63	71.81									
DOA	DOA-Eau Claire SOB	37.59	32.20	34.06	37.25	37.85	32.48	37.06	31.94	45.26	49.63	49.42	39.97	37.12	33.70	49.56	43.25	42.30	50.51	51.20
DOA	DOA-Executive Residence	89.09	74.82	55.24	56.00	54.51	56.32	57.78	49.20	52.15	58.46	60.39	50.28	58.52	76.80	72.27	63.20	56.84	56.47	54.59
DOA	DOA-Green Bay SOB	25.12	17.64	22.47	19.47	22.04	18.07	20.85	16.87	20.02	25.16	22.99	19.15	18.10	30.08	29.58	31.49	33.06	36.39	35.96
DOA	DOA-Hill Farms	119.92	113.54	124.47	128.35	130.84	114.95	117.92	102.70	112.74	131.54	103.57	102.31	110.36	120.43	60.69	62.02	63.01	55.91	54.81
DOA	DOA-La Crosse SOB	34.96	28.58	29.51	30.99	29.77	27.40	30.78	23.61	45.67	51.56	40.10	35.41	42.21	51.15	42.73	36.37	42.25	56.43	33.52
DOA	DOA-Milwaukee SOB	37.71	30.07	26.49	33.77	29.96	24.81	32.66	29.48	34.38	46.85	43.01	26.73	30.71	34.99	32.39	32.75	33.56	36.79	32.52
DOA	DOA-Public Broadcasting	128.61	98.02	95.09	97.91	105.11	107.51	111.32	122.32	112.35	84.39	111.89	122.17	114.80	102.70	101.67	107.60	99.49	99.73	86.89
DOA	DOA-SE Crime Lab	51.33	52.55	54.70	63.70	61.75	63.51	72.18	60.70	82.14	107.69	115.14	71.88	89.65	107.18	112.75	88.98	99.35	105.11	97.40
DOA	DOA-State Ag	44.77	47.00	45.92	50.34	48.16	39.88	41.56	31.25	38.56	49.74	44.18	37.54	39.36	42.73	44.52	38.41	44.16	47.03	49.80
DOA	DOA-State Hygiene Lab	297.71	280.02	298.92	310.74	326.82	279.68	300.11	293.46	345.52	229.18	239.46	196.52	184.99	237.16	230.47	193.61	198.49	224.76	219.09
DOA	DOA-State Revenue	73.43	62.50	24.01	11.65	15.94	10.09	12.18	12.71	25.96	31.53	38.99	26.33	39.97	34.99	37.98	30.80	32.78	33.93	42.59
DOA	DOA-Milwaukee, Waikeshah SOB	44.80	36.39	32.30	28.47	28.97	24.76	28.69	19.84	27.91	37.46	52.76	32.25	31.68	27.00	31.31	24.39	26.33	25.78	23.47
DOA	DOA-WI Rapids SOB	50.31	42.14	39.28	23.94	42.19	39.50	50.14	43.33	38.43	38.73	34.45	27.17	31.33	33.71	35.63	30.75	32.17	36.30	33.85
DOA	DOA-Femrite Data Center			53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95	53.95
DOC	DOC-Boscobel	117.91	110.59	130.51	140.83	141.32	125.48	142.57	110.05	131.26	154.27	132.23	121.60	125.58	123.38	112.27	108.74	111.06	116.45	111.07
DOC	DOC-Columbia	101.21	102.97	99.32	96.56	97.89	90.49	93.74	76.04	87.42	79.48	75.52	68.49	71.17	87.96	87.40	83.16	83.79	92.16	85.14
DOC	DOC-Ethan Allen	132.40	125.52	130.22	141.04	151.34	148.16	143.61	68.74	51.78										
DOC	DOC-Fox Lake	149.96	150.04	156.18	158.41	160.56	154.13	146.70	137.32	149.60	160.28	151.56	149.72	153.04	163.41	159.52	163.48	160.75	153.07	147.72
DOC	DOC-Green Bay	146.76	147.31	139.10	139.25	135.70	123.70	136.75	112.16	128.06	157.04	158.05	135.64	137.77	142.27	148.40	138.53	143.08	145.95	144.92
DOC	DOC-Jackson	120.04	116.90	106.70	116.61	117.79	109.18	115.37	102.12	113.95	130.33	123.81	103.29	104.79	111.11	113.71	107.94	110.69	107.13	109.71
DOC	DOC-Kettle Moraine	144.41	138.90	132.42	138.26	140.57	136.54	144.47	129.57	149.18	160.18	159.01	151.14	145.24	156.14	163.47	149.38	147.57	151.54	150.42
DOC	DOC-Lincoln Hills	124.06	118.83	123.77	128.64	133.67	117.26	124.71	118.98	137.98	146.48	147.24	120.21	115.81	123.09	128.12	129.18	126.93	129.49	126.16
DOC	DOC-Milwaukee Secure	54.54	47.43	37.74	34.96	28.63	36.43	36.72	52.51	56.57	66.80	59.57	51.61	51.20	63.30	63.49	61.17	58.36	60.22	60.44
DOC	DOC-New Lisbon	156.15	140.27	133.27	128.56	127.21	120.44	122.92	105.38	125.15	126.24	127.98	125.87	119.14	135.29	136.68	162.10	125.50	126.96	135.88
DOC	DOC-Oakhill	123.59	120.61	134.93	155.26	161.18	153.78	141.51	125.27	147.57	162.93	156.46	146.39	148.83	162.04	153.60	160.40	148.36	141.20	148.22
DOC	DOC-Oshkosh	112.25	107.88	109.03	116.49	114.44	110.65	117.98	103.23	111.17	122.83	121.85	104.83	102.47	104.17	108.51	104.20	107.15	108.78	108.07
DOC	DOC-Prairie du Chien	105.09	99.80	109.91	109.41	105.14	105.91	103.31	85.75	84.13	82.63	80.99	76.60	76.60	64.82	77.75	81.18	70.07	73.60	78.17
DOC	DOC-Racine	106.94	109.44	110.57	103.33	112.26	105.82	110.91	97.05	104.26	120.63	112.66	110.99	110.89	122.44	121.16	109.99	95.31	96.43	99.09
DOC	DOC-Racine Youth	85.05	80.44	80.48	66.07	72.36	72.76	89.16	75.12	84.27	89.93	67.34	60.51	59.19	64.91	63.56	63.61	60.72	58.13	58.88
DOC	DOC-Redgranite	152.07	143.56	147.92	154.52	145.41	131.45	134.92	118.11	139.27	137.48	130.75	122.09	129.61	141.06	149.18	139.99	119.64	117.89	116.26
DOC	DOC-Stanley	136.23	118.03	130.41	133.09	135.35	109.70	134.27	118.82	133.71	145.05	131.80	133.71	129.75	131.77	131.40	128.65	124.21	132.40	122.60
DOC	DOC-Sturtevant	131.32	122.77	124.05	134.06	138.78	136.32	125.98	115.21	127.85	126.44	134.76	106.68	106.68	100.04	97.75	83.08	76.48	74.88	80.01
DOC	DOC-Taycheedah	81.87	84.84	87.32	88.88	89.68	77.35	81.96	70.35	89.72	97.79	90.85	79.49	79.16	82.55	89.33	80.86	75.39	81.63	78.40
DOC	DOC-Waupun	203.60	209.54	209.44	213.02	217.94	208.34	208.78	190.76	202.14	214.42	187.54	167.91	171.07	180.75	184.64	166.77	164.81	166.54	153.06

FY05-FY23 Thermal Analysis		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
Agency	Agency-Facility	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF	kBtu/GSF
DOT	DOT-DTD 1 Lab	162.72	163.27	204.28	207.89	186.58	176.21	206.81	126.29	160.17	154.44	119.66	102.47	120.66	132.78	120.28	142.07	103.28	83.56	69.13
DOT	DOT-DTD 1 Madison	58.59	47.05	48.84	58.46	53.85	50.58	64.74	65.21	78.80	69.32	49.73	36.05	47.43	57.44	83.11	88.78	37.42	39.63	35.66
DOT	DOT-Green Bay	84.10	60.54	51.12	51.93	50.58	43.75	54.00	44.73	70.22	75.87	74.70	64.49	70.32	65.49	70.74	87.98	58.47	75.23	46.08
DOT	DOT-PIERSTORFF A	21.82	17.87	17.29	19.55	21.05	25.08	26.49	20.83	26.24	32.91	23.47	19.25	16.27	19.98	21.91	21.24	18.46	20.64	20.40
DOT	DOT-PIERSTORFF B	34.01	34.11	34.79	38.00	38.80	37.77	41.26	33.15	42.50	49.04	36.38	28.21	25.05	27.28	29.11	29.95	37.84	32.65	30.06
DOT	DOT-West Allis	36.29	32.19	50.58	40.84	33.07	27.58	32.34	16.84	24.69	29.46	27.07	19.96	18.73	24.40	25.11	22.59	20.38	23.89	23.08
DPI	DPI-Delavan	74.56	70.36	69.03	73.87	77.04	68.68	71.13	63.08	84.38	87.34	86.93	71.40	72.64	81.23	83.28	67.52	63.50	73.64	75.06
DPI	DPI-Janesville	74.46	70.77	80.17	83.34	83.94	75.78	80.34	68.05	86.32	93.10	86.67	74.85	70.12	83.18	87.80	84.82	69.63	72.06	78.08
DVA	DVA-King	156.66	148.95	154.26	162.34	157.63	133.89	142.19	128.44	140.00	147.44	134.55	133.03	130.93	139.59	128.34	122.17	137.84	156.01	153.56
UW	UW-Eau Claire	108.64	100.15	98.23	98.59	95.12	88.75	95.98	79.83	90.37	95.48	86.14	76.04	74.23	76.15	86.88	76.33	72.72	79.04	75.18
UW	UW-Green Bay	120.31	103.00	88.26	85.32	82.10	79.22	84.33	75.59	86.90	94.55	89.11	77.29	77.75	81.18	83.25	79.33	81.05	84.62	83.49
UW	UW-La Crosse	111.93	112.86	106.56	107.44	109.80	105.04	114.13	92.10	99.74	109.82	102.17	87.79	86.23	90.16	103.83	87.64	88.74	88.70	91.17
UW	UW-Madison	226.08	228.04	218.28	222.59	201.88	198.63	191.75	161.18	174.85	182.32	171.22	152.56	152.34	163.36	166.91	160.14	152.78	153.77	141.79
UW	UW-Milwaukee	120.97	113.04	118.95	126.61	131.38	119.07	114.38	92.42	94.19	98.46	103.04	87.18	89.67	94.66	93.53	87.01	84.75	84.04	82.94
UW	UW-Oshkosh	97.37	90.16	92.03	96.01	94.81	92.44	89.70	85.07	92.89	102.45	89.69	78.67	73.82	83.65	87.21	79.55	77.26	79.34	77.11
UW	UW-Parkside	97.24	92.93	92.81	96.31	95.78	91.34	99.53	86.72	97.43	106.31	104.55	94.19	89.72	93.04	97.05	82.16	73.13	68.36	74.36
UW	UW-Platteville	103.20	101.16	91.62	98.08	99.65	95.34	103.84	88.29	103.59	104.54	96.42	84.27	83.75	97.30	106.97	101.15	91.86	97.39	98.73
UW	UW-River Falls	92.46	89.29	87.69	91.48	85.60	78.07	82.62	66.62	77.50	81.31	78.94	72.88	73.50	83.62	83.69	81.17	72.40	79.49	85.66
UW	UW-Stevens Point	128.08	119.38	113.30	118.95	119.64	111.44	119.93	101.88	114.53	125.93	118.09	103.47	102.58	111.33	120.99	107.02	104.65	113.01	123.53
UW	UW-Stout	80.46	73.85	74.37	81.71	81.82	80.83	90.06	70.81	88.85	92.10	79.52	72.52	71.78	79.52	82.88	80.28	72.94	76.39	74.00
UW	UW-Superior	131.19	113.50	121.64	129.00	127.93	134.98	142.39	119.69	125.81	143.15	125.87	112.82	114.33	121.11	116.18	117.37	97.01	108.80	107.92
UW	UW-Whitewater	110.21	108.54	94.69	88.59	95.99	90.99	93.72	85.68	98.57	109.92	96.32	88.00	91.17	98.84	106.28	86.15	75.73	100.13	102.59
UW	UW-Eau Claire, Barron	68.96	50.22	59.58	62.21	60.88	55.33	65.69	50.83	69.54	68.76	64.98	60.96	63.06	71.79	75.45	67.95	71.80	79.67	75.38
UW	UW-Green Bay, Manitowoc	48.68	42.49	40.78	41.37	44.48	38.76	43.81	35.60	48.23	52.94	45.77	41.54	41.19	45.73	52.95	44.39	47.08	48.50	52.27
UW	UW-Green Bay, Marinette	97.92	84.64	86.21	82.82	89.46	74.98	87.32	71.46	80.51	95.64	89.05	77.78	81.25	85.88	101.10	70.03	68.55	71.40	70.54
UW	UW-Green Bay, Sheboygan	72.17	52.36	58.09	64.57	74.77	73.37	77.65	63.85	74.15	83.87	84.69	51.51	68.85	49.28	51.78	41.92	32.68	37.74	55.86
UW	UW-Milwaukee, Washington	42.19	46.78	50.86	42.88	44.34	40.94	41.53	30.58	38.38	41.72	34.04	25.96	31.22	34.02	31.96	32.72	28.83	31.08	35.23
UW	UW-Milwaukee, Waukesha	59.76	52.66	55.81	58.67	53.63	45.77	49.13	42.75	53.06	59.93	44.80	52.79	66.80	65.53	64.83	63.59	61.02	62.87	64.96
UW	UW-Oshkosh, Fond du Lac	57.70	44.93	36.84	41.63	42.79	36.35	39.42	31.25	40.45	44.74	44.07	39.52	42.76	50.73	53.97	41.08	38.62	42.53	38.72
UW	UW-Oshkosh, Fox Cities	80.76	65.85	68.87	74.58	59.79	56.54	57.43	54.82	65.66	69.66	53.83	35.86	22.23	40.31	39.97	39.36	40.57	42.03	57.47
UW	UW-Platteville, Baraboo	60.07	54.76	57.13	48.67	56.23	52.35	55.82	52.61	53.08	65.37	65.94	51.86	59.76	64.86	71.25	60.69	54.21	53.67	61.23
UW	UW-Platteville, Richland	84.02	61.76	73.11	63.34	66.57	49.30	43.37	41.97	60.56	78.41	73.53	56.17	54.66	55.61	63.22	77.20	92.02	74.00	60.31
UW	UW-Stevens Point, Marshfield	74.18	58.57	68.28	69.60	73.37	59.03	67.68	54.48	68.18	81.58	75.60	63.76	69.98	72.86	73.60	64.45	75.61	84.64	83.12
UW	UW-Stevens Point, Wausau	83.47	75.82	82.29	98.15	79.70	66.44	69.29	59.97	64.33	62.45	66.88	49.83	52.76	50.45	63.91	61.48	53.21	58.66	63.78
UW	UW-Whitewater, Rock	48.49	43.90	45.78	48.52	61.81	53.70	55.12	49.69	52.58	56.74	55.61	46.39	48.16	49.77	58.57	53.49	40.89	40.92	45.17
State Totals		148.69	145.10	141.91	145.90	139.82	133.17	133.84	114.01	124.82	132.66	124.58	111.32	111.23	119.66	121.59	114.35	109.70	113.20	109.62
DHS		169.21	162.47	167.30	173.57	177.47	161.72	168.92	155.67	163.39	166.39	159.11	155.60	147.57	165.40	155.22	143.49	146.78	150.29	139.68
DNR		70.47	58.89	52.65	60.81	58.11	50.78	55.52	49.39	59.76	67.61	59.19	49.53	52.62	51.73	54.37	53.80	52.25	61.47	56.11
DOA		99.22	97.34	92.77	93.66	84.49	76.18	74.01	52.65	61.28	70.19	65.72	58.98	66.01	70.80	56.00	61.85	61.32	66.68	74.25
DOC		132.66	129.69	130.89	134.14	135.52	127.84	131.82	115.14	126.64	140.25	131.43	119.70	119.89	127.04	129.37	124.30	119.59	120.91	118.20
DOT		64.56	57.61	65.17	67.73	62.76	59.38	70.05	51.77	67.30	68.34	54.35	44.15	48.89	53.90	58.74	65.60	45.37	45.06	37.06
DPI		74.52	70.54	73.98	78.08	80.11	71.84	75.23	65.29	85.24	89.90	86.81	72.93	71.52	82.10	85.29	75.21	66.23	72.94	76.41
DVA		156.66	148.95	154.26	162.34	157.63	133.89	142.19	128.44	140.00	147.44	134.55	133.03	130.93	139.59	128.34	122.17	137.84	156.01	153.56
UW		155.22	151.76	146.91	150.89	142.93	137.48	137.05	116.09	126.99	134.41	125.99	111.15	111.09	119.25	123.63	115.34	109.64	113.06	109.01
State Totals		148.69	145.10	141.91	145.90	139.82	133.17	133.84	114.01	124.82	132.66	124.58	111.32	111.23	119.66	121.59	114.35	109.70	113.20	109.62

FY05-FY23 Electric Analysis		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	
Agency	Agency-Facility	kwh/GSF kwh/GSF																			
DHS	DHS-Mendota	10.51	11.23	10.88	11.10	10.70	9.61	10.92	10.95	10.54	10.73	10.80	10.98	10.98	10.22	9.50	9.30	8.91	9.07	8.57	
DHS	DHS-Northern Center	8.67	7.66	6.74	6.88	8.10	8.14	7.82	9.90	9.73	9.51	9.64	9.63	9.35	9.22	9.27	9.25	9.20	9.13	9.47	
DHS	DHS-Sand Ridge	15.31	15.62	15.85	16.23	17.63	12.55	13.46	13.93	13.46	13.91	14.32	14.31	14.50	14.48	14.37	15.12	14.21	13.69	13.75	
DHS	DHS-Southern Center	10.16	10.66	11.87	12.78	12.41	12.07	12.52	11.70	11.29	11.09	11.02	11.29	11.72	11.34	11.16	11.13	11.01	10.52	8.61	
DHS	DHS-Winnebago	10.24	10.86	10.92	10.96	10.80	10.97	11.36	11.96	10.55	10.19	9.93	10.19	10.31	9.94	9.65	9.82	10.02	9.94	9.96	
DNR	DNR-Darwin Road	6.53	6.67	6.46	6.66	6.72	6.13	6.00	5.79	5.88	6.37	6.15	5.71	5.70	5.56	5.45	5.57	4.78	4.56	4.14	
DNR	DNR-Green Bay		8.85	7.93	8.08	7.98	7.25	6.43	7.47	7.17	7.27	6.58	6.40	7.44	6.68	7.61	7.36	8.16	8.28	7.11	
DNR	DNR-SE Milwaukee	14.72	14.37	14.22	13.57	12.58	12.81	12.72	12.58	11.83	11.89	11.57	11.45	10.88	10.15	10.45	10.13	9.33			
DNR	DNR-South Central	16.36	16.77	14.77	16.06	14.47	14.04	15.17	17.88	18.18	16.97	14.66	16.06	17.81	13.38	12.98	14.05	10.61	11.46	10.68	
DNR	DNR-Tomahawk	7.69	7.77	7.12	8.19	7.87	7.12	7.10	6.71	6.76	6.90	6.90	6.35	7.25	8.15	8.18	7.94	7.63	7.13	7.42	
DOA	DOA-Air Services	5.55	5.47	5.32	5.46	5.26	5.15	5.48	5.26	5.57	5.19	4.52	4.65	4.65	4.68	4.28	3.03	3.49	4.12	3.64	
DOA	DOA-Badger Road	16.84	15.87	14.32	12.48	12.02	11.68	12.00	12.30	11.74	11.77	11.07	11.17	11.55							
DOA	DOA-Capitol Complex	16.66	16.76	16.48	15.77	14.22	13.92	13.29	13.68	13.43	13.50	13.30	13.30	13.01	12.53	12.16	11.59	10.30	10.86	10.42	
DOA	DOA-Central Services	13.33	14.23	13.93	14.32	13.64	13.69	13.09	13.28	12.97	9.75										
DOA	DOA-Eau Claire SOB	11.82	11.54	11.23	10.76	10.53	9.72	9.31	9.47	9.14	8.91	8.04	7.47	6.29	6.30	6.68	5.64	5.03	6.13	7.04	
DOA	DOA-Executive Residence	9.69	9.60	9.13	9.04	8.63	9.02	9.34	9.69	10.60	10.89	10.54	10.44	10.92	10.72	9.90	8.60	8.19	8.79	9.23	
DOA	DOA-Green Bay SOB	9.37	10.00	8.91	8.81	8.04	8.01	8.06	7.75	7.94	7.79	7.27	7.10	7.40	6.31	4.35	4.35	3.47	3.97	4.20	
DOA	DOA-Hill Farms	19.32	19.48	18.75	19.50	19.16	17.32	18.44	18.45	17.49	16.85	15.54	15.48	15.47	13.22	8.21	8.14	7.70	7.51	7.67	
DOA	DOA-La Crosse SOB	9.52	10.49	10.42	10.47	9.52	9.21	9.07	9.15	9.47	9.41	8.80	8.00	8.22	8.34	6.98	6.08	4.63	6.16	5.93	
DOA	DOA-Milwaukee SOB	11.25	10.70	10.95	10.16	10.32	9.32	10.31	10.78	10.61	10.55	10.02	10.30	10.96	10.58	9.81	9.50	8.40	9.58	9.74	
DOA	DOA-Public Broadcasting	38.02	36.29	29.48	30.04	30.79	30.65	30.15	30.35	30.61	27.99	30.20	32.46	31.84	28.16	28.82	28.41	26.03	27.06	26.00	
DOA	DOA-SE Crime Lab	20.26	20.51	19.46	20.09	19.35	19.25	20.68	21.46	20.89	22.10	24.85	27.44	30.39	30.43	29.02	28.93	27.69	27.59	26.05	
DOA	DOA-State Ag	13.41	13.91	13.29	12.66	11.84	11.48	11.20	10.39	10.32	10.43	10.13	9.74	9.60	9.44	8.80	7.53	7.87	8.79	7.42	
DOA	DOA-State Hygiene Lab	51.64	56.51	55.49	56.41	56.89	55.59	57.58	49.82	51.55	38.72	40.80	40.80	43.50	44.20	45.33	45.71	41.41	47.58	44.15	
DOA	DOA-State Revenue	17.96	18.19	15.14	13.04	12.74	10.75	9.91	10.88	10.81	10.81	10.75	10.03	10.60	9.88	9.38	8.37	7.36	7.60	7.40	
DOA	DOA-Milwaukee, Waukesha SOB	16.68	14.82	14.72	14.90	14.64	14.03	13.80	14.00	15.01	13.61	14.75	12.78	11.74	11.39	9.11	6.86	5.75	5.90	5.72	
DOA	DOA-WI Rapids SOB	8.15	10.22	12.03	11.82	11.80	11.09	10.63	9.53	9.17	8.75	7.45	7.18	6.89	6.53	6.39	5.04	3.90	4.76	5.28	
DOA	DOA-Femrite Data Center		77.79	120.06	133.31	133.90	125.75	116.95	108.02	107.57	116.72	118.42	113.67	116.80	115.21	108.69	105.02	106.23	115.25		
DOC	DOC-Boscobel	19.21	20.28	20.95	20.83	20.20	19.85	20.09	19.73	19.57	19.63	19.20	19.07	19.36	19.06	18.91	19.05	18.97	18.23	17.40	
DOC	DOC-Columbia	18.05	18.34	18.13	17.90	16.05	15.14	15.46	15.25	14.97	15.41	15.18	14.76	14.79	15.47	16.14	15.29	15.65	15.23	13.79	
DOC	DOC-Ethan Allen	10.80	10.53	10.38	10.52	10.36	10.25	9.70	4.78	3.51											
DOC	DOC-Fox Lake	11.55	11.28	11.86	12.25	11.86	11.39	11.73	11.35	11.50	11.56	11.05	10.82	10.90	10.95	10.90	10.86	10.59	10.13	9.63	
DOC	DOC-Green Bay	9.40	9.79	9.56	9.73	9.33	9.03	9.16	9.07	9.21	9.48	9.57	9.62	9.59	9.44	9.40	9.41	9.37	9.02	9.02	
DOC	DOC-Jackson	17.54	15.14	15.04	14.65	14.70	14.22	14.31	14.24	14.30	14.60	13.89	13.49	13.40	13.41	13.38	13.60	13.16	13.10	13.10	
DOC	DOC-Kettle Moraine	14.80	14.69	14.79	14.91	14.89	14.78	15.29	14.50	13.67	13.13	13.33	13.08	12.70	13.08	13.36	13.25	13.39	13.12	12.73	
DOC	DOC-Lincoln Hills	9.00	8.35	8.20	9.20	9.59	8.92	8.86	10.17	11.22	11.25	11.36	11.30	10.93	10.95	10.74	10.66	10.63	10.43	9.83	
DOC	DOC-Milwaukee Secure	9.94	10.71	11.04	10.80	11.08	11.48	11.40	11.87	11.29	11.17	10.39	10.71	10.81	10.83	10.17	10.24	9.42	9.27	8.99	
DOC	DOC-New Lisbon	19.93	20.45	19.81	19.38	18.59	18.56	18.61	18.28	18.19	18.36	18.74	18.95	18.47	18.22	17.87	17.83	17.75	17.48	17.34	
DOC	DOC-Oakhill	9.89	10.21	10.48	10.89	10.71	10.85	10.67	10.87	10.82	10.83	10.76	9.18	9.11	9.23	9.09	9.04	8.58	8.86	9.14	
DOC	DOC-Oshkosh	12.34	12.30	12.57	12.63	12.40	12.02	12.05	11.95	11.99	11.54	10.66	10.66	10.60	10.32	10.21	10.36	10.06	10.27	9.96	
DOC	DOC-Prairie du Chien	4.86	5.03	5.47	5.61	5.32	5.36	5.18	5.03	4.55	4.62	4.64	4.64	4.58	4.62	4.65	4.60	4.41	4.62	4.68	
DOC	DOC-Racine	19.66	20.13	20.12	20.06	19.95	18.80	17.93	17.85	17.83	18.59	19.24	18.54	17.69	17.35	16.70	16.57	15.36	15.08	14.41	
DOC	DOC-Racine Youth	11.19	11.94	11.93	11.84	11.33	11.00	11.65	12.02	12.08	10.59	9.37	9.67	9.89	9.94	9.57	9.60	9.16	9.21	9.27	
DOC	DOC-Redgranite	17.98	18.06	17.70	17.83	17.79	17.58	17.19	16.96	16.98	16.27	15.25	15.36	15.28	14.98	14.51	14.49	14.22	14.84	14.66	
DOC	DOC-Stanley	20.02	19.40	16.87	16.26	16.17	15.18	15.61	15.30	14.63	14.78	14.88	15.26	15.30	15.26	15.26	15.08	14.18	13.55	12.53	
DOC	DOC-Sturtevant	16.00	15.45	16.17	17.16	17.50	16.87	17.01	16.92	17.02	16.61	16.66	15.56	13.94	13.21	13.46	13.68	11.15	11.42	11.15	
DOC	DOC-Taycheedah	10.85	11.02	10.84	11.07	11.14	10.98	10.89	11.25	11.07	10.98	10.68	10.05	9.40	9.36	9.48	9.37	9.48	9.13	9.18	
DOC	DOC-Waupun	12.20	11.93	11.91	12.46	12.32	11.96	12.63	12.23	12.22	12.18	11.90	12.35	12.05	12.23	11.79	11.67	11.43	11.31	10.80	

FY05-FY23 Electric Analysis		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	
Agency	Agency-Facility																				
DOT	DOT-DTD 1 Lab	24.49	24.90	26.42	26.69	25.09	25.50	26.24	22.66	20.45	21.65	18.30	19.74	19.15	17.99	18.37	20.26	18.37	21.36	18.45	
DOT	DOT-DTD 1 Madison	16.17	15.02	14.53	15.73	15.40	15.75	15.12	15.52	17.91	16.11	13.58	12.99	13.06	14.09	16.15	14.10	7.10	9.26	7.83	
DOT	DOT-Green Bay	16.06	17.00	16.07	16.35	15.11	13.83	14.43	14.17	14.81	14.16	13.51	14.36	14.84	13.26	12.74	14.07	10.71	12.31	16.23	
DOT	DOT-PIERSTORFF A	4.86	4.63	4.43	4.43	4.30	2.07	1.65	1.64	1.65	1.74	2.26	2.37	2.61	2.44	2.34	2.22	2.63	2.64	2.79	
DOT	DOT-PIERSTORFF B	5.41	5.37	5.37	5.32	5.29	2.91	2.56	2.37	2.51	2.56	2.08	1.87	1.64	1.76	1.74	1.73	3.05	1.50	1.46	
DOT	DOT-West Allis	6.96	7.07	7.35	7.43	7.40	6.89	7.98	6.94	7.57	7.52	7.29	7.24	6.58	6.97	6.47	5.53	5.31	5.63	5.99	
DPI	DPI-Delavan	7.88	8.44	7.98	7.72	7.70	7.35	7.87	8.16	8.44	7.40	6.94	7.02	6.95	6.88	4.90	5.39	4.83	6.20	6.01	
DPI	DPI-Janesville	5.63	5.46	5.12	5.19	4.74	4.85	5.31	4.80	4.62	4.84	4.61	4.60	4.72	4.67	4.03	4.21	3.36	3.78	4.23	
DVA	DVA-King	11.94	12.78	13.00	13.23	12.90	12.69	13.31	13.33	13.40	13.24	13.31	13.81	13.72	14.03	13.45	12.21	12.18	14.01	12.27	
UW	UW-Eau Claire	11.87	12.55	11.30	10.89	10.23	9.59	9.78	9.93	9.45	9.04	8.62	8.52	8.23	8.01	7.90	7.33	7.36	7.93	7.85	
UW	UW-Green Bay	15.88	15.44	14.64	13.39	12.96	12.39	12.50	12.45	12.24	11.81	11.38	11.13	11.07	10.97	11.00	10.27	10.31	10.87	10.46	
UW	UW-La Crosse	11.28	12.03	11.62	11.14	11.11	10.47	11.89	10.73	10.16	10.62	9.75	10.72	9.11	9.60	10.73	9.33	9.68	10.44	10.11	
UW	UW-Madison	20.13	21.23	21.23	21.21	20.60	21.00	21.62	21.15	20.34	20.17	19.89	19.92	20.04	19.65	19.24	18.68	18.15	18.89	18.83	
UW	UW-Milwaukee	14.93	15.70	15.81	16.10	15.90	15.26	14.76	14.08	12.36	11.83	12.17	12.17	12.16	12.08	11.98	11.36	10.97	11.75	11.03	
UW	UW-Oshkosh	11.45	11.15	10.93	10.57	10.32	10.37	9.94	10.42	10.20	10.06	9.39	8.97	8.72	8.53	8.42	7.55	7.12	8.12	7.54	
UW	UW-Parkside	14.32	14.21	13.89	13.78	12.91	12.51	12.77	12.74	11.84	11.78	11.44	11.37	10.96	10.55	10.17	8.83	9.20	8.88	8.47	
UW	UW-Platteville	10.55	10.87	10.29	10.56	10.62	11.13	11.08	10.28	9.82	9.36	9.17	8.94	9.21	9.00	9.23	9.12	9.01	9.75	8.44	
UW	UW-River Falls	9.41	9.34	8.93	8.75	8.24	7.87	7.80	7.51	7.55	7.38	7.04	6.89	7.07	6.96	6.85	6.65	3.40	3.49	3.37	
UW	UW-Stevens Point	10.56	10.46	10.00	10.23	9.91	10.05	10.57	10.21	9.99	10.11	10.05	10.11	9.07	9.45	9.66	8.37	7.85	8.58	7.90	
UW	UW-Stout	9.55	9.43	8.95	8.78	8.78	9.27	9.18	9.09	9.53	9.01	9.10	9.02	8.84	8.92	8.54	7.81	7.74	8.18	7.87	
UW	UW-Superior	9.03	8.71	8.59	8.76	8.88	9.75	9.56	10.14	9.73	9.13	9.55	9.53	9.13	9.07	8.92	8.62	7.27	7.97	8.01	
UW	UW-Whitewater	10.45	10.45	11.30	11.18	11.13	11.16	11.21	11.11	11.01	11.22	11.14	11.41	11.25	11.04	11.18	11.01	10.01	11.08	11.60	
UW	UW-Eau Claire, Barron	7.31	7.16	8.33	7.69	7.50	7.20	7.33	6.98	6.66	6.70	7.34	6.71	5.25	5.78	5.75	5.83	6.32	6.88	6.31	
UW	UW-Green Bay, Manitowoc	7.71	7.06	6.41	6.50	6.60	6.31	6.78	6.92	7.00	6.98	6.62	6.73	7.04	5.67	6.06	5.13	4.70	5.28	5.28	
UW	UW-Green Bay, Marinette	9.84	9.05	9.41	9.01	8.90	8.14	8.44	8.23	8.33	7.71	6.72	6.33	6.16	6.51	6.97	4.89	4.34	4.78	4.22	
UW	UW-Green Bay, Sheboygan	8.96	8.15	9.70	8.74	9.72	10.95	10.08	9.61	10.02	9.51	10.30	10.54	10.76	10.06	9.76	7.53	7.55	7.68	7.96	
UW	UW-Milwaukee, Washington	9.71	10.01	10.12	8.54	8.65	8.07	8.01	8.13	8.13	5.87	5.67	5.77	5.72	5.51	5.12	4.97	4.53	4.58	4.65	
UW	UW-Milwaukee, Waukesha	10.25	9.70	10.62	10.74	10.53	9.58	9.66	9.79	10.46	8.45	6.88	7.68	7.88	7.41	6.99	6.28	5.98	6.75	6.42	
UW	UW-Oshkosh, Fond du Lac	10.65	8.97	7.26	7.41	7.48	6.13	6.16	5.76	5.76	5.77	5.55	5.07	5.46	5.31	5.35	4.86	3.98	4.53	4.43	
UW	UW-Oshkosh, Fox Cities	9.72	11.64	11.54	12.47	10.73	12.30	12.48	12.91	13.59	13.92	12.09	10.01	9.11	9.64	10.93	9.52	7.76	8.28	7.83	
UW	UW-Platteville, Baraboo	8.42	8.46	8.03	8.77	8.88	8.67	9.70	10.10	8.69	7.56	7.61	7.23	6.99	7.10	7.34	6.99	6.10	6.19	6.89	
UW	UW-Platteville, Richland	9.44	9.96	9.93	8.92	5.39	5.05	5.08	5.08	11.45	11.43	10.38	10.71	9.48	8.70	8.98	8.45	7.83	7.57	7.51	
UW	UW-Stevens Point, Marshfield	8.69	9.01	8.71	8.19	9.07	8.18	8.27	8.03	8.89	8.85	8.38	9.23	9.41	7.56	7.10	6.25	7.87	8.89	7.28	
UW	UW-Stevens Point, Wausau	10.55	10.53	12.52	10.39	9.84	9.08	8.98	9.14	7.87	7.81	8.10	7.58	7.21	7.05	6.92	5.96	5.72	5.74	5.60	
UW	UW-Whitewater, Rock	7.31	7.15	7.22	6.23	5.61	5.73	5.39	5.70	5.46	5.48	5.36	5.38	4.72	4.69	4.57	4.18	3.15	3.34	5.09	
State Totals		14.56	14.97	14.91	14.92	14.60	14.50	14.76	14.55	14.02	13.91	13.70	13.69	13.56	13.34	13.11	12.55	12.07	12.64	12.35	
DHS		10.25	10.55	10.59	10.93	11.10	10.50	11.08	11.45	10.84	10.78	10.76	10.95	11.06	10.62	10.28	10.30	10.12	9.98	9.41	
DNR		11.89	11.32	10.56	10.90	10.26	9.86	9.87	10.44	10.26	10.16	9.47	9.50	10.07	9.04	9.22	9.25	8.36	8.07	7.56	
DOA		17.18	17.32	17.56	17.76	17.03	16.34	16.10	16.09	15.74	15.68	15.81	15.73	15.67	15.03	13.53	12.87	11.71	12.36	12.11	
DOC		13.32	13.26	13.19	13.31	13.08	12.73	12.84	12.54	12.39	12.71	12.42	12.34	12.15	12.14	11.97	11.93	11.58	11.46	11.09	
DOT		12.25	12.17	12.17	12.50	11.96	10.99	11.05	10.37	10.71	10.45	9.30	9.51	9.42	9.25	9.58	9.52	7.59	8.49	8.38	
DPI		6.88	7.12	6.71	6.59	6.38	6.24	6.73	6.66	6.74	6.26	5.90	5.94	5.96	5.89	4.51	4.86	4.18	5.12	5.22	
DVA		11.94	12.78	13.00	13.23	12.90	12.69	13.31	13.33	13.40	13.24	13.31	13.81	13.72	14.03	13.45	12.21	12.18	14.01	12.27	
UW		15.09	15.60	15.49	15.43	15.06	15.10	15.39	15.10	14.48	14.28	14.05	14.03	13.89	13.68	13.55	12.86	12.39	13.09	12.84	
State Totals		14.56	14.97	14.91	14.92	14.60	14.50	14.76	14.55	14.02	13.91	13.70	13.69	13.56	13.34	13.11	12.55	12.07	12.64	12.35	

Thermal Energy Prices (\$/MMBtu)		\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu
Agency	Agency-Facility	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
DHS	DHS-Mendota	\$ 3.47	\$ 3.48	\$ 3.65	\$ 4.02	\$ 4.01	\$ 3.15	\$ 3.58	\$ 6.58	\$ 6.14
DHS	DHS-Northern Center	\$ 4.61	\$ 3.91	\$ 4.21	\$ 4.12	\$ 4.11	\$ 3.68	\$ 4.25	\$ 7.18	\$ 6.26
DHS	DHS-Sand Ridge	\$ 4.76	\$ 3.77	\$ 4.51	\$ 4.11	\$ 4.14	\$ 3.37	\$ 3.81	\$ 6.66	\$ 6.62
DHS	DHS-Southern Center	\$ 4.31	\$ 3.39	\$ 4.01	\$ 3.59	\$ 3.87	\$ 3.03	\$ 3.86	\$ 6.63	\$ 5.93
DHS	DHS-Winnebago	\$ 4.21	\$ 3.29	\$ 3.97	\$ 3.54	\$ 3.91	\$ 2.98	\$ 3.34	\$ 5.88	\$ 5.73
DNR	DNR-Darwin Road	\$ 5.17	\$ 3.91	\$ 4.47	\$ 4.25	\$ 4.45	\$ 5.42	\$ 6.01	\$ 8.94	\$ 9.58
DNR	DNR-Green Bay	\$ 6.64	\$ 4.81	\$ 5.26	\$ 4.83	\$ 4.96	\$ 4.53	\$ 4.85	\$ 7.52	\$ 8.74
DNR	DNR-SE Milwaukee	\$ 7.11	\$ 6.20	\$ 6.48	\$ 6.34	\$ 6.25	\$ 5.46	\$ 6.19		
DNR	DNR-South Central	\$ 4.88	\$ 3.75	\$ 4.12	\$ 4.06	\$ 4.18	\$ 5.23	\$ 7.53	\$ 9.05	\$ 9.42
DNR	DNR-Tomahawk	\$ 6.37	\$ 4.87	\$ 5.39	\$ 4.97	\$ 5.09	\$ 4.60	\$ 5.53	\$ 7.65	\$ 9.18
DOA	DOA-Air Services	\$ 6.71	\$ 5.55	\$ 6.20	\$ 5.71	\$ 6.03	\$ 5.23	\$ 6.03	\$ 8.77	\$ 9.35
DOA	DOA-Badger Road	\$ 6.45	\$ 5.32	\$ 5.67						
DOA	DOA-Capitol Complex	\$ 4.29	\$ 3.31	\$ 3.88	\$ 3.50	\$ 3.78	\$ 3.20	\$ 3.36	\$ 6.32	\$ 5.77
DOA	DOA-Central Services									
DOA	DOA-Eau Claire SOB	\$ 7.33	\$ 7.68	\$ 8.80	\$ 8.05	\$ 6.71	\$ 5.92	\$ 6.49	\$ 10.59	\$ 10.15
DOA	DOA-Executive Residence	\$ 6.74	\$ 4.81	\$ 5.41	\$ 5.25	\$ 5.30	\$ 4.63	\$ 5.57	\$ 8.88	\$ 8.98
DOA	DOA-Green Bay SOB	\$ 6.58	\$ 4.98	\$ 5.64	\$ 5.19	\$ 5.35	\$ 4.73	\$ 5.34	\$ 7.67	\$ 9.04
DOA	DOA-Hill Farms	\$ 4.31	\$ 3.47	\$ 4.06	\$ 3.66	\$ 3.95	\$ 3.46	\$ 3.99	\$ 5.84	\$ 7.94
DOA	DOA-La Crosse SOB	\$ 7.93	\$ 5.69	\$ 6.11	\$ 6.18	\$ 6.48	\$ 5.97	\$ 6.56	\$ 10.91	\$ 10.13
DOA	DOA-Milwaukee SOB	\$ 12.87	\$ 11.51	\$ 11.77	\$ 12.33	\$ 14.55	\$ 11.05	\$ 13.60	\$ 16.65	\$ 17.03
DOA	DOA-Public Broadcasting	\$ 5.70	\$ 4.53	\$ 5.03	\$ 5.05	\$ 5.07	\$ 4.32	\$ 5.14	\$ 8.31	\$ 8.35
DOA	DOA-SE Crime Lab	\$ 6.73	\$ 6.14	\$ 6.34	\$ 5.93	\$ 5.83	\$ 3.40	\$ 5.49	\$ 7.77	\$ 6.62
DOA	DOA-State Ag	\$ 5.49	\$ 4.55	\$ 4.34	\$ 3.99	\$ 3.83	\$ 4.44	\$ 5.37	\$ 7.76	\$ 2.28
DOA	DOA-State Hygiene Lab	\$ 5.14	\$ 4.18	\$ 4.90	\$ 4.26	\$ 4.46	\$ 3.49	\$ 4.60	\$ 7.02	\$ 6.49
DOA	DOA-State Revenue	\$ 5.90	\$ 4.19	\$ 4.79	\$ 4.53	\$ 4.73	\$ 3.96	\$ 5.04	\$ 4.87	\$ 7.58
DOA	DOA-Milwaukee, Waukesha SOB	\$ 6.00	\$ 4.10	\$ 5.03	\$ 4.81	\$ 4.50	\$ 3.92	\$ 6.42	\$ 5.76	\$ 4.58
DOA	DOA-WI Rapids SOB	\$ 7.20	\$ 6.24	\$ 6.45	\$ 6.34	\$ 6.17	\$ 5.65	\$ 5.98	\$ 8.21	\$ 9.50
DOA	DOA-Femrite Data Center	\$ 10.00	\$ 9.65	\$ 5.52	\$ 5.35	\$ 5.34	\$ 4.57	\$ 5.33	\$ 8.46	\$ 8.45
DOC	DOC-Boscobel	\$ 4.98	\$ 4.24	\$ 4.84	\$ 4.33	\$ 4.43	\$ 3.98	\$ 4.65	\$ 6.97	\$ 7.19
DOC	DOC-Columbia	\$ 4.76	\$ 3.80	\$ 4.37	\$ 3.94	\$ 4.15	\$ 3.42	\$ 3.80	\$ 6.88	\$ 6.50
DOC	DOC-Ethan Allen									
DOC	DOC-Fox Lake	\$ 4.43	\$ 3.42	\$ 4.17	\$ 3.74	\$ 3.81	\$ 3.16	\$ 3.56	\$ 6.70	\$ 5.94
DOC	DOC-Green Bay	\$ 4.36	\$ 3.35	\$ 4.03	\$ 3.59	\$ 3.95	\$ 3.04	\$ 3.48	\$ 6.46	\$ 5.76
DOC	DOC-Jackson	\$ 4.83	\$ 4.17	\$ 4.72	\$ 4.16	\$ 4.21	\$ 3.75	\$ 4.46	\$ 6.76	\$ 7.02
DOC	DOC-Kettle Moraine	\$ 4.35	\$ 3.36	\$ 4.07	\$ 3.62	\$ 3.71	\$ 3.08	\$ 3.44	\$ 6.50	\$ 5.81
DOC	DOC-Lincoln Hills	\$ 4.51	\$ 3.56	\$ 4.21	\$ 3.78	\$ 3.81	\$ 3.18	\$ 3.55	\$ 6.61	\$ 5.96
DOC	DOC-Milwaukee Secure	\$ 12.63	\$ 11.86	\$ 12.43	\$ 12.36	\$ 11.63	\$ 11.54	\$ 13.11	\$ 16.06	\$ 23.79
DOC	DOC-New Lisbon	\$ 4.68	\$ 3.61	\$ 4.31	\$ 3.92	\$ 4.04	\$ 3.24	\$ 3.71	\$ 6.83	\$ 6.30
DOC	DOC-Oakhill	\$ 4.64	\$ 3.69	\$ 4.33	\$ 3.92	\$ 4.10	\$ 3.48	\$ 4.01	\$ 6.91	\$ 5.93
DOC	DOC-Oshkosh	\$ 4.23	\$ 3.28	\$ 4.07	\$ 3.50	\$ 3.55	\$ 2.99	\$ 3.31	\$ 6.41	\$ 5.74
DOC	DOC-Prairie du Chien	\$ 4.64	\$ 3.83	\$ 3.83	\$ 4.13	\$ 4.36	\$ 3.69	\$ 4.21	\$ 6.92	\$ 6.25
DOC	DOC-Racine	\$ 4.25	\$ 3.27	\$ 3.92	\$ 3.53	\$ 3.73	\$ 3.11	\$ 3.53	\$ 6.64	\$ 5.71
DOC	DOC-Racine Youth	\$ 4.37	\$ 3.79	\$ 4.49	\$ 4.04	\$ 4.12	\$ 3.11	\$ 5.17	\$ 6.87	\$ 6.21
DOC	DOC-Redgranite	\$ 4.90	\$ 3.59	\$ 4.44	\$ 4.04	\$ 4.16	\$ 4.16	\$ 3.93	\$ 6.98	\$ 6.09
DOC	DOC-Stanley	\$ 4.79	\$ 3.77	\$ 4.45	\$ 4.02	\$ 4.04	\$ 3.44	\$ 3.89	\$ 6.86	\$ 10.33
DOC	DOC-Sturtevant	\$ 4.10	\$ 3.85	\$ 4.66	\$ 4.15	\$ 4.38	\$ 4.27	\$ 5.38	\$ 6.95	\$ 6.31
DOC	DOC-Taycheedah	\$ 4.56	\$ 3.45	\$ 4.42	\$ 3.79	\$ 4.03	\$ 3.26	\$ 3.74	\$ 7.15	\$ 6.31
DOC	DOC-Waupun	\$ 4.07	\$ 3.55	\$ 4.19	\$ 3.72	\$ 3.85	\$ 3.28	\$ 3.96	\$ 4.55	\$ 5.91

Thermal Energy Prices (\$/MMBtu)		\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu	\$/MMBtu
Agency	Agency-Facility	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
DOT	DOT-DTD 1 Lab	\$ 6.33	\$ 9.73	\$ 6.30	\$ 5.40	\$ 5.55	\$ 4.76	\$ 2.04	\$ 2.37	\$ 2.64
DOT	DOT-DTD 1 Madison	\$ 6.41	\$ 5.41	\$ 5.86	\$ 5.47	\$ 5.43	\$ 4.77	\$ 5.83	\$ 8.79	\$ 8.92
DOT	DOT-Green Bay	\$ 6.80	\$ 4.99	\$ 5.39	\$ 5.21	\$ 5.30	\$ 4.56	\$ 5.27	\$ 7.54	\$ 8.75
DOT	DOT-PIERSTORFF A	\$ 6.67	\$ 5.53	\$ 6.20	\$ 6.01	\$ 6.18	\$ 5.32	\$ 6.02	\$ 8.97	\$ 9.50
DOT	DOT-PIERSTORFF B	\$ 6.79	\$ 5.59	\$ 6.06	\$ 5.89	\$ 6.07	\$ 5.16	\$ 5.85	\$ 8.85	\$ 9.34
DOT	DOT-West Allis	\$ 7.40	\$ 6.55	\$ 6.80	\$ 6.58	\$ 6.46	\$ 5.79	\$ 6.42	\$ 8.39	\$ 9.68
DPI	DPI-Delavan	\$ 4.58	\$ 3.59	\$ 4.35	\$ 3.80	\$ 4.03	\$ 3.39	\$ 3.84	\$ 6.65	\$ 5.99
DPI	DPI-Janesville	\$ 4.75	\$ 3.49	\$ 4.54	\$ 4.01	\$ 4.29	\$ 3.57	\$ 3.89	\$ 6.71	\$ 6.10
DVA	DVA-King	\$ 4.55	\$ 3.70	\$ 4.23	\$ 3.95	\$ 3.93	\$ 3.30	\$ 3.71	\$ 6.79	\$ 5.97
UW	UW-Eau Claire	\$ 5.09	\$ 5.08	\$ 4.85	\$ 4.69	\$ 4.82	\$ 4.19	\$ 4.23	\$ 6.52	\$ 6.37
UW	UW-Green Bay	\$ 4.22	\$ 3.33	\$ 3.99	\$ 3.46	\$ 3.91	\$ 2.97	\$ 3.42	\$ 5.94	\$ 5.79
UW	UW-La Crosse	\$ 4.79	\$ 3.85	\$ 4.50	\$ 4.38	\$ 4.37	\$ 4.03	\$ 3.99	\$ 6.86	\$ 7.11
UW	UW-Madison	\$ 5.72	\$ 4.68	\$ 4.68	\$ 4.27	\$ 4.78	\$ 3.58	\$ 4.49	\$ 7.27	\$ 7.29
UW	UW-Milwaukee	\$ 5.28	\$ 4.58	\$ 5.13	\$ 4.50	\$ 4.98	\$ 3.54	\$ 4.20	\$ 6.87	\$ 5.26
UW	UW-Oshkosh	\$ 4.58	\$ 3.69	\$ 4.21	\$ 2.78	\$ 4.10	\$ 3.46	\$ 3.70	\$ 5.88	\$ 5.72
UW	UW-Parkside	\$ 4.56	\$ 3.63	\$ 4.29	\$ 3.80	\$ 3.95	\$ 3.14	\$ 3.27	\$ 5.84	\$ 5.95
UW	UW-Platteville	\$ 5.27	\$ 4.31	\$ 4.55	\$ 4.20	\$ 4.38	\$ 3.83	\$ 4.04	\$ 6.30	\$ 6.17
UW	UW-River Falls	\$ 4.58	\$ 3.77	\$ 4.53	\$ 3.75	\$ 4.39	\$ 3.84	\$ 5.01	\$ 7.45	\$ 7.35
UW	UW-Stevens Point	\$ 5.42	\$ 4.68	\$ 5.36	\$ 3.75	\$ 4.19	\$ 3.49	\$ 4.22	\$ 5.80	\$ 5.72
UW	UW-Stout	\$ 5.13	\$ 4.33	\$ 5.01	\$ 4.33	\$ 4.72	\$ 3.91	\$ 3.85	\$ 6.56	\$ 6.74
UW	UW-Superior	\$ 5.19	\$ 4.77	\$ 5.31	\$ 4.57	\$ 4.69	\$ 3.98	\$ 4.33	\$ 7.34	\$ 6.80
UW	UW-Whitewater	\$ 2.05	\$ 1.93	\$ 1.77	\$ 1.77	\$ 2.34	\$ 1.65	\$ 1.65	\$ 6.00	\$ 6.07
UW	UW-Eau Claire, Barron	\$ 6.80	\$ 5.77	\$ 5.99	\$ 5.68	\$ 6.05	\$ 5.12	\$ 5.47	\$ 7.65	\$ 8.78
UW	UW-Green Bay, Manitowoc	\$ 6.46	\$ 4.94	\$ 3.92	\$ 5.13	\$ 5.25	\$ 4.61	\$ 5.14	\$ 7.45	\$ 8.73
UW	UW-Green Bay, Marinette	\$ 6.26	\$ 4.76	\$ 5.42	\$ 4.20	\$ 4.22	\$ 4.31	\$ 4.62	\$ 4.92	\$ 6.35
UW	UW-Green Bay, Sheboygan	\$ 6.49	\$ 4.65	\$ 5.84	\$ 3.79	\$ 4.69	\$ 3.70	\$ 4.93	\$ 5.83	\$ 6.59
UW	UW-Milwaukee, Washington	\$ 6.40	\$ 4.81	\$ 5.47	\$ 4.89	\$ 4.88	\$ 4.14	\$ 5.33	\$ 7.02	\$ 6.86
UW	UW-Milwaukee, Waukesha	\$ 4.56	\$ 3.77	\$ 4.36	\$ 3.97	\$ 4.00	\$ 3.43	\$ 5.07	\$ 6.67	\$ 6.30
UW	UW-Oshkosh, Fond du Lac	\$ 6.55	\$ 5.17	\$ 6.53	\$ 5.21	\$ 5.12	\$ 4.44	\$ 4.99	\$ 7.25	\$ 8.49
UW	UW-Oshkosh, Fox Cities	\$ 5.57	\$ 3.45	\$ 3.90	\$ 3.17	\$ 3.12	\$ 2.93	\$ 3.59	\$ 4.46	\$ 7.35
UW	UW-Platteville, Baraboo	\$ 6.25	\$ 5.04	\$ 5.25	\$ 5.18	\$ 5.14	\$ 4.51	\$ 4.95	\$ 7.29	\$ 8.60
UW	UW-Platteville, Richland	\$ 8.39	\$ 6.11	\$ 6.79	\$ 6.53	\$ 6.27	\$ 5.62	\$ 6.22	\$ 7.98	\$ 9.45
UW	UW-Stevens Point, Marshfield	\$ 6.24	\$ 4.52	\$ 5.30	\$ 4.82	\$ 4.83	\$ 4.10	\$ 5.01	\$ 6.84	\$ 6.83
UW	UW-Stevens Point, Wausau	\$ 5.19	\$ 3.62	\$ 4.44	\$ 3.88	\$ 4.03	\$ 3.32	\$ 3.81	\$ 6.62	\$ 6.11
UW	UW-Whitewater, Rock	\$ 4.89	\$ 4.12	\$ 4.91	\$ 4.54	\$ 4.42	\$ 3.71	\$ 4.98	\$ 7.09	\$ 6.68
		\$ 5.12	\$ 4.24	\$ 4.53	\$ 4.07	\$ 4.46	\$ 3.53	\$ 4.16	\$ 6.82	\$ 6.69
	DHS	\$ 3.96	\$ 3.48	\$ 3.87	\$ 3.87	\$ 3.97	\$ 3.15	\$ 3.67	\$ 6.53	\$ 6.06
	DNR	\$ 5.84	\$ 4.51	\$ 4.94	\$ 4.79	\$ 4.89	\$ 5.08	\$ 6.29	\$ 8.42	\$ 9.27
	DOA	\$ 5.12	\$ 4.00	\$ 4.49	\$ 4.12	\$ 4.49	\$ 3.68	\$ 4.27	\$ 6.79	\$ 6.62
	DOC	\$ 4.61	\$ 3.75	\$ 4.42	\$ 4.01	\$ 4.12	\$ 3.53	\$ 4.05	\$ 6.48	\$ 6.74
	DOT	\$ 6.59	\$ 6.98	\$ 6.01	\$ 5.53	\$ 5.61	\$ 4.83	\$ 4.42	\$ 6.61	\$ 7.23
	DPI	\$ 4.66	\$ 3.54	\$ 4.43	\$ 3.90	\$ 4.15	\$ 3.48	\$ 3.86	\$ 6.68	\$ 6.04
	DVA	\$ 4.55	\$ 3.70	\$ 4.23	\$ 3.95	\$ 3.93	\$ 3.30	\$ 3.71	\$ 6.79	\$ 5.97
	UW	\$ 5.31	\$ 4.41	\$ 4.61	\$ 4.09	\$ 4.56	\$ 3.55	\$ 4.23	\$ 6.90	\$ 6.75
		\$ 5.12	\$ 4.24	\$ 4.53	\$ 4.07	\$ 4.46	\$ 3.53	\$ 4.16	\$ 6.82	\$ 6.69

Electric Energy Prices (\$/kwh)		\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh
Agency	Agency-Facility	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
DHS	DHS-Mendota	\$ 0.0880	\$ 0.0915	\$ 0.0876	\$ 0.0913	\$ 0.0910	\$ 0.0894	\$ 0.0971	\$ 0.1029	\$ 0.1162
DHS	DHS-Northern Center	\$ 0.0759	\$ 0.0778	\$ 0.0782	\$ 0.0802	\$ 0.0779	\$ 0.0781	\$ 0.0784	\$ 0.0825	\$ 0.0927
DHS	DHS-Sand Ridge	\$ 0.0795	\$ 0.0796	\$ 0.0824	\$ 0.0804	\$ 0.0845	\$ 0.0845	\$ 0.0891	\$ 0.0890	\$ 0.0910
DHS	DHS-Southern Center	\$ 0.0900	\$ 0.0899	\$ 0.0878	\$ 0.0872	\$ 0.0873	\$ 0.0883	\$ 0.0914	\$ 0.0959	\$ 0.1010
DHS	DHS-Winnebago	\$ 0.0674	\$ 0.0696	\$ 0.0685	\$ 0.0700	\$ 0.0681	\$ 0.0685	\$ 0.0705	\$ 0.0751	\$ 0.0834
DNR	DNR-Darwin Road	\$ 0.1464	\$ 0.1534	\$ 0.1489	\$ 0.1486	\$ 0.1469	\$ 0.1464	\$ 0.1554	\$ 0.1652	\$ 0.1686
DNR	DNR-Green Bay	\$ 0.1233	\$ 0.1219	\$ 0.1203	\$ 0.1146	\$ 0.1130	\$ 0.1150	\$ 0.1036	\$ 0.1065	\$ 0.1252
DNR	DNR-SE Milwaukee	\$ 0.1013	\$ 0.1014	\$ 0.1029	\$ 0.1020	\$ 0.1009	\$ 0.0996	\$ 0.0955		
DNR	DNR-South Central	\$ 0.1388	\$ 0.1359	\$ 0.1216	\$ 0.1544	\$ 0.1463	\$ 0.1485	\$ 0.1570	\$ 0.1652	\$ 0.1631
DNR	DNR-Tomahawk	\$ 0.1061	\$ 0.1064	\$ 0.1026	\$ 0.1024	\$ 0.1003	\$ 0.0991	\$ 0.0984	\$ 0.1064	\$ 0.1187
DOA	DOA-Air Services	\$ 0.1524	\$ 0.1618	\$ 0.1560	\$ 0.1573	\$ 0.1630	\$ 0.1593	\$ 0.1192	\$ 0.1478	\$ 0.1779
DOA	DOA-Badger Road	\$ 0.1305	\$ 0.1391	\$ 0.1383						
DOA	DOA-Capitol Complex	\$ 0.1056	\$ 0.1104	\$ 0.1031	\$ 0.1047	\$ 0.1046	\$ 0.1031	\$ 0.1040	\$ 0.1047	\$ 0.1175
DOA	DOA-Central Services									
DOA	DOA-Eau Claire SOB	\$ 0.1049	\$ 0.1120	\$ 0.1106	\$ 0.1119	\$ 0.1032	\$ 0.1060	\$ 0.1170	\$ 0.1272	\$ 0.1266
DOA	DOA-Executive Residence	\$ 0.1390	\$ 0.1408	\$ 0.1348	\$ 0.1398	\$ 0.1373	\$ 0.1339	\$ 0.1341	\$ 0.1424	\$ 0.1564
DOA	DOA-Green Bay SOB	\$ 0.0928	\$ 0.0932	\$ 0.0941	\$ 0.0990	\$ 0.0996	\$ 0.0991	\$ 0.0987	\$ 0.1133	\$ 0.1222
DOA	DOA-Hill Farms	\$ 0.1058	\$ 0.1090	\$ 0.1054	\$ 0.1052	\$ 0.1155	\$ 0.1122	\$ 0.1107	\$ 0.1170	\$ 0.1241
DOA	DOA-La Crosse SOB	\$ 0.1002	\$ 0.0972	\$ 0.0962	\$ 0.0959	\$ 0.0945	\$ 0.0938	\$ 0.1007	\$ 0.1100	\$ 0.1266
DOA	DOA-Milwaukee SOB	\$ 0.1165	\$ 0.1165	\$ 0.1110	\$ 0.1123	\$ 0.1131	\$ 0.1152	\$ 0.1252	\$ 0.1277	\$ 0.1413
DOA	DOA-Public Broadcasting	\$ 0.0985	\$ 0.0994	\$ 0.0952	\$ 0.0994	\$ 0.0988	\$ 0.0974	\$ 0.0996	\$ 0.1041	\$ 0.1155
DOA	DOA-SE Crime Lab	\$ 0.1026	\$ 0.0970	\$ 0.0950	\$ 0.0941	\$ 0.0967	\$ 0.0975	\$ 0.0982	\$ 0.1043	\$ 0.1146
DOA	DOA-State Ag	\$ 0.1410	\$ 0.1503	\$ 0.1525	\$ 0.1551	\$ 0.1505	\$ 0.1560	\$ 0.1603	\$ 0.1574	\$ 0.1727
DOA	DOA-State Hygiene Lab	\$ 0.1085	\$ 0.1094	\$ 0.1042	\$ 0.1063	\$ 0.1071	\$ 0.1040	\$ 0.1062	\$ 0.1105	\$ 0.1218
DOA	DOA-State Revenue	\$ 0.1182	\$ 0.1244	\$ 0.1162	\$ 0.1250	\$ 0.1215	\$ 0.1224	\$ 0.1249	\$ 0.1305	\$ 0.1423
DOA	DOA-Milwaukee, Waukesha SOB	\$ 0.1073	\$ 0.1132	\$ 0.1175	\$ 0.1148	\$ 0.1146	\$ 0.1167	\$ 0.1197	\$ 0.1285	\$ 0.1400
DOA	DOA-WI Rapids SOB	\$ 0.1077	\$ 0.1149	\$ 0.1157	\$ 0.1179	\$ 0.1120	\$ 0.1128	\$ 0.1249	\$ 0.1246	\$ 0.1279
DOA	DOA-Femrite Data Center	\$ 0.0940	\$ 0.0948	\$ 0.0906	\$ 0.0909	\$ 0.0923	\$ 0.0899	\$ 0.0938	\$ 0.0982	\$ 0.1092
DOC	DOC-Boscobel	\$ 0.0834	\$ 0.0778	\$ 0.0800	\$ 0.0804	\$ 0.0769	\$ 0.0763	\$ 0.0753	\$ 0.0860	\$ 0.0887
DOC	DOC-Columbia	\$ 0.0743	\$ 0.0782	\$ 0.0798	\$ 0.0779	\$ 0.0776	\$ 0.0763	\$ 0.0746	\$ 0.0770	\$ 0.0831
DOC	DOC-Ethan Allen									
DOC	DOC-Fox Lake	\$ 0.0788	\$ 0.0813	\$ 0.0845	\$ 0.0832	\$ 0.0831	\$ 0.0822	\$ 0.0805	\$ 0.0847	\$ 0.0919
DOC	DOC-Green Bay	\$ 0.0693	\$ 0.0710	\$ 0.0689	\$ 0.0717	\$ 0.0711	\$ 0.0694	\$ 0.0694	\$ 0.0749	\$ 0.0839
DOC	DOC-Jackson	\$ 0.0743	\$ 0.0858	\$ 0.0852	\$ 0.0858	\$ 0.0878	\$ 0.0866	\$ 0.0901	\$ 0.0903	\$ 0.0903
DOC	DOC-Kettle Moraine	\$ 0.0824	\$ 0.0790	\$ 0.0779	\$ 0.0761	\$ 0.0717	\$ 0.0723	\$ 0.0703	\$ 0.0786	\$ 0.0834
DOC	DOC-Lincoln Hills	\$ 0.0680	\$ 0.0716	\$ 0.0695	\$ 0.0697	\$ 0.0677	\$ 0.0663	\$ 0.0655	\$ 0.0712	\$ 0.0816
DOC	DOC-Milwaukee Secure	\$ 0.0977	\$ 0.0960	\$ 0.0953	\$ 0.0947	\$ 0.0942	\$ 0.0942	\$ 0.0963	\$ 0.0996	\$ 0.1072
DOC	DOC-New Lisbon	\$ 0.0821	\$ 0.0831	\$ 0.0809	\$ 0.0743	\$ 0.0735	\$ 0.0734	\$ 0.0682	\$ 0.0736	\$ 0.0753
DOC	DOC-Oakhill	\$ 0.0764	\$ 0.0808	\$ 0.0836	\$ 0.0818	\$ 0.0822	\$ 0.0803	\$ 0.0797	\$ 0.0817	\$ 0.0878
DOC	DOC-Oshkosh	\$ 0.0657	\$ 0.0677	\$ 0.0662	\$ 0.0719	\$ 0.0654	\$ 0.0661	\$ 0.0669	\$ 0.0722	\$ 0.0819
DOC	DOC-Prairie du Chien	\$ 0.0763	\$ 0.0788	\$ 0.0817	\$ 0.0816	\$ 0.0807	\$ 0.0806	\$ 0.0786	\$ 0.0817	\$ 0.0893
DOC	DOC-Racine	\$ 0.0844	\$ 0.0844	\$ 0.0834	\$ 0.0829	\$ 0.0838	\$ 0.0837	\$ 0.0868	\$ 0.0897	\$ 0.0976
DOC	DOC-Racine Youth	\$ 0.1047	\$ 0.1051	\$ 0.0996	\$ 0.0994	\$ 0.0985	\$ 0.0992	\$ 0.1014	\$ 0.1079	\$ 0.1173
DOC	DOC-Redgranite	\$ 0.0744	\$ 0.0773	\$ 0.0790	\$ 0.0782	\$ 0.0788	\$ 0.0768	\$ 0.0765	\$ 0.0780	\$ 0.0844
DOC	DOC-Stanley	\$ 0.0915	\$ 0.0926	\$ 0.0942	\$ 0.0955	\$ 0.0920	\$ 0.0917	\$ 0.0898	\$ 0.0969	\$ 0.1071
DOC	DOC-Sturtevant	\$ 0.0987	\$ 0.0991	\$ 0.0996	\$ 0.0993	\$ 0.1021	\$ 0.0888	\$ 0.0916	\$ 0.0987	\$ 0.1058
DOC	DOC-Taycheedah	\$ 0.0746	\$ 0.0780	\$ 0.0822	\$ 0.0821	\$ 0.0799	\$ 0.0789	\$ 0.0771	\$ 0.0807	\$ 0.0865
DOC	DOC-Waupun	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1100	\$ 0.1200

Electric Energy Prices (\$/kwh)		\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh	\$/kwh
Agency	Agency-Facility	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
DOT	DOT-DTD 1 Lab	\$ 0.1262	\$ 0.1289	\$ 0.1293	\$ 0.1364	\$ 0.1254	\$ 0.1205	\$ 0.1276	\$ 0.1314	\$ 0.1425
DOT	DOT-DTD 1 Madison	\$ 0.1249	\$ 0.1250	\$ 0.1196	\$ 0.1141	\$ 0.1049	\$ 0.1076	\$ 0.1312	\$ 0.1277	\$ 0.1485
DOT	DOT-Green Bay	\$ 0.0872	\$ 0.0884	\$ 0.0873	\$ 0.0919	\$ 0.0911	\$ 0.0873	\$ 0.0855	\$ 0.0913	\$ 0.0913
DOT	DOT-PIERSTORFF A	\$ 0.1264	\$ 0.1436	\$ 0.1287	\$ 0.1347	\$ 0.1374	\$ 0.1299	\$ 0.1270	\$ 0.1342	\$ 0.1514
DOT	DOT-PIERSTORFF B	\$ 0.1473	\$ 0.1567	\$ 0.1632	\$ 0.1553	\$ 0.1563	\$ 0.1515	\$ 0.1247	\$ 0.1748	\$ 0.1824
DOT	DOT-West Allis	\$ 0.1247	\$ 0.1228	\$ 0.1246	\$ 0.1228	\$ 0.1238	\$ 0.1256	\$ 0.1237	\$ 0.1294	\$ 0.1337
DPI	DPI-Delavan	\$ 0.0823	\$ 0.0844	\$ 0.0873	\$ 0.0872	\$ 0.1023	\$ 0.0983	\$ 0.0941	\$ 0.0992	\$ 0.1091
DPI	DPI-Janesville	\$ 0.1029	\$ 0.1067	\$ 0.1092	\$ 0.1092	\$ 0.1049	\$ 0.1039	\$ 0.1015	\$ 0.1086	\$ 0.1174
DVA	DVA-King	\$ 0.0693	\$ 0.0725	\$ 0.0701	\$ 0.0706	\$ 0.0690	\$ 0.0707	\$ 0.0708	\$ 0.0859	\$ 0.0932
UW	UW-Eau Claire	\$ 0.0843	\$ 0.0833	\$ 0.0832	\$ 0.0853	\$ 0.0821	\$ 0.0813	\$ 0.0809	\$ 0.0886	\$ 0.1001
UW	UW-Green Bay	\$ 0.0740	\$ 0.0766	\$ 0.0753	\$ 0.0760	\$ 0.0741	\$ 0.0757	\$ 0.0746	\$ 0.0796	\$ 0.0901
UW	UW-La Crosse	\$ 0.0872	\$ 0.0855	\$ 0.0856	\$ 0.0850	\$ 0.0804	\$ 0.0807	\$ 0.0796	\$ 0.0890	\$ 0.1006
UW	UW-Madison	\$ 0.0923	\$ 0.1007	\$ 0.0980	\$ 0.0993	\$ 0.1050	\$ 0.1028	\$ 0.1069	\$ 0.1097	\$ 0.1154
UW	UW-Milwaukee	\$ 0.0935	\$ 0.0933	\$ 0.0882	\$ 0.0863	\$ 0.0857	\$ 0.0879	\$ 0.0895	\$ 0.0922	\$ 0.1000
UW	UW-Oshkosh	\$ 0.0721	\$ 0.0748	\$ 0.0731	\$ 0.0730	\$ 0.0712	\$ 0.0669	\$ 0.0700	\$ 0.0744	\$ 0.0828
UW	UW-Parkside	\$ 0.0923	\$ 0.0911	\$ 0.0880	\$ 0.0907	\$ 0.0901	\$ 0.0893	\$ 0.0882	\$ 0.0964	\$ 0.1033
UW	UW-Platteville	\$ 0.0772	\$ 0.0818	\$ 0.0817	\$ 0.0821	\$ 0.0792	\$ 0.0783	\$ 0.0767	\$ 0.0799	\$ 0.0892
UW	UW-River Falls	\$ 0.0957	\$ 0.0915	\$ 0.0835	\$ 0.0913	\$ 0.0875	\$ 0.0851	\$ 0.0914	\$ 0.0979	\$ 0.1016
UW	UW-Stevens Point	\$ 0.0699	\$ 0.0717	\$ 0.0787	\$ 0.0757	\$ 0.0692	\$ 0.0697	\$ 0.0707	\$ 0.0757	\$ 0.0848
UW	UW-Stout	\$ 0.0808	\$ 0.0845	\$ 0.0848	\$ 0.0861	\$ 0.0823	\$ 0.0839	\$ 0.0825	\$ 0.0906	\$ 0.1020
UW	UW-Superior	\$ 0.0672	\$ 0.0700	\$ 0.0721	\$ 0.0744	\$ 0.0659	\$ 0.0651	\$ 0.0755	\$ 0.0887	\$ 0.0858
UW	UW-Whitewater	\$ 0.0860	\$ 0.0858	\$ 0.0845	\$ 0.0837	\$ 0.0836	\$ 0.0859	\$ 0.0868	\$ 0.0912	\$ 0.0978
UW	UW-Eau Claire, Barron	\$ 0.1044	\$ 0.1100	\$ 0.0867	\$ 0.0922	\$ 0.0936	\$ 0.0952	\$ 0.0937	\$ 0.0945	\$ 0.0963
UW	UW-Green Bay, Manitowoc	\$ 0.0863	\$ 0.0867	\$ 0.0822	\$ 0.0808	\$ 0.0781	\$ 0.0757	\$ 0.0751	\$ 0.0740	\$ 0.0740
UW	UW-Green Bay, Marinette	\$ 0.1082	\$ 0.1114	\$ 0.1159	\$ 0.1070	\$ 0.1054	\$ 0.1001	\$ 0.0946	\$ 0.1046	\$ 0.1224
UW	UW-Green Bay, Sheboygan	\$ 0.0978	\$ 0.1006	\$ 0.1004	\$ 0.1019	\$ 0.1074	\$ 0.1044	\$ 0.0997	\$ 0.1060	\$ 0.1121
UW	UW-Milwaukee, Washington	\$ 0.1154	\$ 0.1158	\$ 0.1167	\$ 0.1121	\$ 0.1122	\$ 0.1059	\$ 0.1103	\$ 0.1184	\$ 0.1263
UW	UW-Milwaukee, Waukesha	\$ 0.1071	\$ 0.1044	\$ 0.1029	\$ 0.1038	\$ 0.1037	\$ 0.1079	\$ 0.1122	\$ 0.1128	\$ 0.1235
UW	UW-Oshkosh, Fond du Lac	\$ 0.1044	\$ 0.1100	\$ 0.0990	\$ 0.0992	\$ 0.1061	\$ 0.1001	\$ 0.1009	\$ 0.0994	\$ 0.1107
UW	UW-Oshkosh, Fox Cities	\$ 0.1009	\$ 0.1062	\$ 0.1023	\$ 0.1055	\$ 0.1005	\$ 0.0908	\$ 0.0948	\$ 0.1232	\$ 0.1038
UW	UW-Platteville, Baraboo	\$ 0.0970	\$ 0.1120	\$ 0.1092	\$ 0.1102	\$ 0.1073	\$ 0.1003	\$ 0.1120	\$ 0.1105	\$ 0.1242
UW	UW-Platteville, Richland	\$ 0.1055	\$ 0.0927	\$ 0.0924	\$ 0.0853	\$ 0.0823	\$ 0.0809	\$ 0.0863	\$ 0.0971	\$ 0.1037
UW	UW-Stevens Point, Marshfield	\$ 0.0819	\$ 0.0674	\$ 0.0767	\$ 0.0698	\$ 0.0846	\$ 0.0830	\$ 0.0816	\$ 0.0900	\$ 0.1044
UW	UW-Stevens Point, Wausau	\$ 0.0844	\$ 0.0931	\$ 0.0920	\$ 0.0910	\$ 0.0923	\$ 0.0872	\$ 0.0863	\$ 0.0929	\$ 0.1056
UW	UW-Whitewater, Rock	\$ 0.1044	\$ 0.1096	\$ 0.1169	\$ 0.1111	\$ 0.1109	\$ 0.1137	\$ 0.1293	\$ 0.1333	\$ 0.1272
		\$ 0.0892	\$ 0.0938	\$ 0.0918	\$ 0.0924	\$ 0.0939	\$ 0.0930	\$ 0.0954	\$ 0.0994	\$ 0.1068
	DHS	\$ 0.0818	\$ 0.0836	\$ 0.0819	\$ 0.0832	\$ 0.0828	\$ 0.0826	\$ 0.0864	\$ 0.0908	\$ 0.0988
	DNR	\$ 0.1201	\$ 0.1202	\$ 0.1153	\$ 0.1227	\$ 0.1187	\$ 0.1200	\$ 0.1172	\$ 0.1346	\$ 0.1419
	DOA	\$ 0.1064	\$ 0.1097	\$ 0.1046	\$ 0.1057	\$ 0.1068	\$ 0.1051	\$ 0.1069	\$ 0.1101	\$ 0.1214
	DOC	\$ 0.0840	\$ 0.0857	\$ 0.0858	\$ 0.0859	\$ 0.0845	\$ 0.0838	\$ 0.0834	\$ 0.0872	\$ 0.0943
	DOT	\$ 0.1182	\$ 0.1200	\$ 0.1175	\$ 0.1194	\$ 0.1131	\$ 0.1112	\$ 0.1189	\$ 0.1234	\$ 0.1301
	DPI	\$ 0.0894	\$ 0.0921	\$ 0.0950	\$ 0.0949	\$ 0.1034	\$ 0.1005	\$ 0.0968	\$ 0.1023	\$ 0.1121
	DVA	\$ 0.0693	\$ 0.0725	\$ 0.0701	\$ 0.0706	\$ 0.0690	\$ 0.0707	\$ 0.0708	\$ 0.0859	\$ 0.0932
	UW	\$ 0.0890	\$ 0.0942	\$ 0.0922	\$ 0.0928	\$ 0.0950	\$ 0.0940	\$ 0.0969	\$ 0.1007	\$ 0.1077
		\$ 0.0892	\$ 0.0938	\$ 0.0918	\$ 0.0924	\$ 0.0939	\$ 0.0930	\$ 0.0954	\$ 0.0994	\$ 0.1068