Energy Program of the Year Nominee

Katy ISD

Want to recognize the excellence of our team at Katy ISD.

Direct Strategy & Governance:

How did the program nominated lead the development and adoption of policies and other strategies and governance items within their organization in 2025?

In 2025, the program played a key role in shaping the district's energy strategy to reduce utility costs while maintaining safe and comfortable learning environments. The program helped develop and implement a districtwide energy management strategy that established standardized HVAC schedules, temperature setpoints, and lighting guidelines and minimize energy use during unoccupied hours.

We also introduced monthly energy performance benchmarks and District Cost Savings reports to identify inefficiencies so we could correct them. In addition, through our Bond program, energy efficiency was incorporated into equipment replacement and facility improvement projects by prioritizing high-efficiency chillers, LED lighting, and enhanced energy efficient building automation controls.

Through these efforts, the program strengthened district governance around energy management and ensured that energy efficiency remains a key consideration in daily operations and long-term planning, helping the district control utility costs and allocate more resources toward education.

Direct Technical Operations:

Describe the audits, maintenance programs, and commissioning the program nominated oversaw.

We do Benchmarking several ways:

-Monthly Benchmarking

-Yearly EUI Benchmarking

-RMS Weekly (Almost Real time) Smart Meter Benchmarking. Year over Year and kWh/squ ft.

Also, Energy Coordinators do a District Cost Savings Report every two-weeks, identifying any loads that areON at night and weekends.

From these Benchmarks and Reports, we generate Work Orders. Some actions are taken the very day or very next day to fix the inefficiencies.

Direct Financial & Resource Management:

How did the program nominated manage budgets and negotiate contracts to benefit their organization, to include other relevant items under financial and resource management in 2025?

In 2025, the program focused on maximizing district resources while minimizing operational costs. Careful budget management allowed the team to prioritize energy efficiency projects that delivered measurable savings without increasing overall expenditures. Energy usage benchmarks and

building performance trends were used to target the facilities with the greatest opportunity for cost reduction, focusing on HVAC optimization and building automation adjustments.

The energy program also supported the district in reviewing and negotiating utility contracts to ensure competitive pricing and favorable terms for future rates.

In addition, the energy program used Bond funds to implement efficiency upgrades such as LED lighting improvements, new high-efficient chillers, new enhance energy efficient BAS controls.

By aligning financial planning with operational efficiency, the energy program helped the district stretch limited resources further while continuing to reduce annual energy costs.

Direct Engagement & Education:

How did the program nominated build a culture of energy awareness within their organization in 2025?

In 2025, the energy program helped build a strong culture of energy awareness across the district by promoting responsible energy use and encouraging staff participation in conservation efforts. The program worked closely with campus administrators, custodial teams, and maintenance staff to share best practices for reducing energy waste, such as turning off lights, holiday shut-down checklists, and maintaining proper HVAC schedules using the Schooldude program for after-hour events.

Energy performance updates were also shared with district leadership and facility teams, increased transparency and reinforced accountability for building operations.

By consistently reinforcing energy-saving practices and engaging employees in the district's conservation goals, the energy program fostered a greater sense of shared responsibility for managing energy resources. These efforts helped reduce unnecessary consumption while supporting the district's goal of keeping utility costs as low as possible.

Please discuss or provide any additional information you find appropriate:

•Further explain the energy program highlighting the need and purpose, and/or relevance to the organization
•Provide data (quantitative and qualitative) that highlights program success (e.g. EUI/ECI, avoided costs, relationship development, etc.) from 2024 and 2025
•Further exhibit how the program furthers the implementation of the 18 roles and responsibilities of an energy manager (informational website)
•Discuss your method or progress over time to achieve success and its future sustainability

For the past year (2025) Katy ISD's District Costs per Squ. Ft. for all four utilities (Electricity, natural gas, water and irrigation) was $1.011. The District EUI was 39.8. Our SCORE rebate totals for the last three years are $2,461,106. Also, more than 78% of Katy ISD's facilities qualified for the Energy Star label.

https://drive.google.com/open?id=1Po3Rn7qHLqRmmKQ4mPzJsFy85mnpwLci
https://drive.google.com/open?id=1mohSMNBxcWrvu_PCMUnUtFRcSGHxuRx7
https://www.dropbox.com/t/68QM5omG8Hue2zaE

Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

MEMORANDUM

To: Theodore Vierling

Thru: Nathan Fuchs & Jerel Cutler

From: Jay Bonham

Date: 03/02/2026

RE: December Energy Report

Executive Summary

Katy ISD facilities' electric utility costs were compared year-over-year for the month of December. Here are some of the key points for consideration:

- Katy ISD's electric bill in December 2025 was $840,232. December 2024 electricity costs were $867,621 (See Fig. 1, Pg. 2). Electricity costs were down -3.2%.
- Consumption (kWh) is down -0.7% (See Fig. 2, Pg. 3).
- TDSP charges were $438,361 (52.2% of our total electric bill).
- The average blended electricity rate was $0.081 cents per kWh (down -1.7% from last year).
- Our natural gas costs for December were 14.1% higher than last year.
- The weather was a little hotter year over year, having a 1.9% increasing effect on kWh usage (i.e., it cost KISD).
- When normalizing for weather and new square footage, the kWh was down -5.0% (See Fig. 3, Pg. 4).
- Total annual (12-month rolling) cost/ft² for all utilities, including water, is $1.01053 per Sq. Ft.
- The District EUI (12 mo. rolling) is 39.8
- Water, Irrigation, and Natural Gas Year-over-Year summaries are on page 6.
- See Energy Management Department News on page 7.
- See our most and least efficient buildings for each facility type (Pages 10-11).
- The 13-Month Utility Cost Breakdown Bar Chart is located on page 10.
- Annual Utility Costs Pie Chart (12 mo. rolling) is located on Page 11.

District Wide

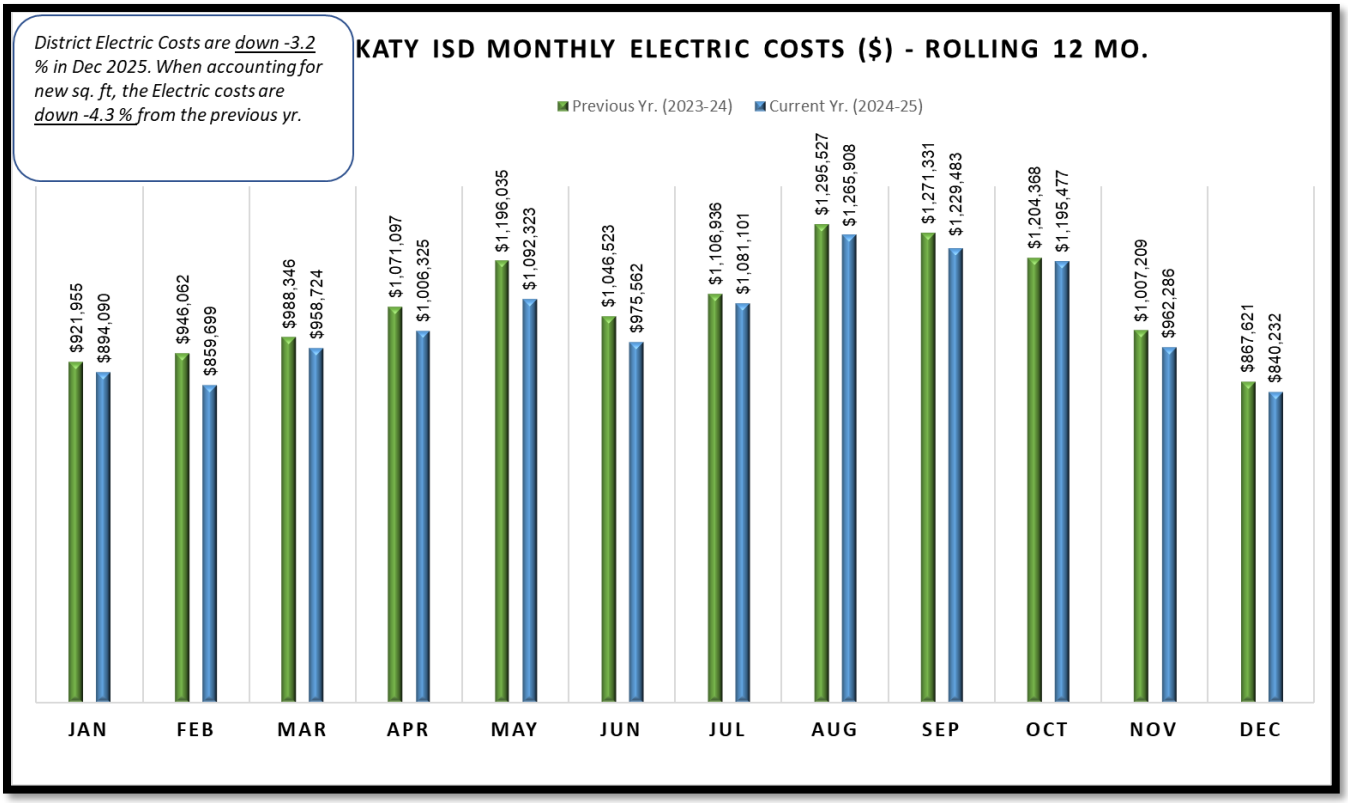
Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

The total electric cost for December 2025 was $840,232 or $0.729 per square foot, with a consumption of 10,344,462 kWh. The total cost of district-wide electricity for the previous year was $867,621 or $0.805 per square foot, with an energy consumption of 10,500,699 kWh. In summary, the overall cost of electricity consumed by the District in December 2025 is -$27,388 (-3.2% less than December of the previous year), and the total consumption of electrical energy decreased by 156,237; this is taking into account the new buildings (ES#47, ES #48). The year-over-year ($ per square ft.) is shown in (Fig. 4, Pg 4) for each building type. For the year, the cost of electricity is $0.729 per square foot for 2025 (compared to $0.805 in 2024) while using 9.58 kWh per square ft. The blended rate for December is $0.081, which is -1.7 less than last year.

Figure 1



*Includes new square footage for Cross ES and Boundy ES

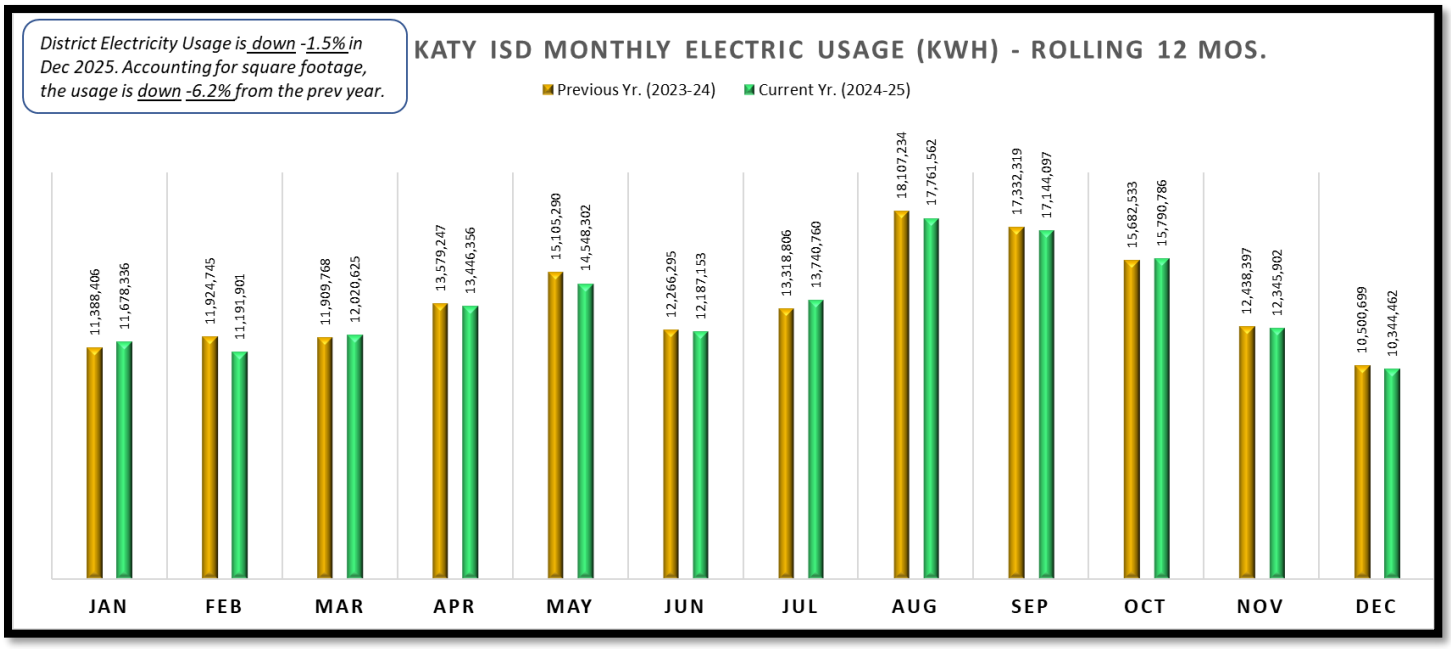
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Annual
2023-2024	$921,955	$946,062	$988,346	$1,071,097	$1,196,035	$1,046,523	$1,106,936	$1,295,527	$1,271,331	$1,204,368	$1,007,209	$867,621	$12,923,009
2024-2025	$894,090	$859,699	$958,724	$1,006,325	$1,092,323	$975,562	$1,081,101	$1,265,908	$1,229,483	$1,195,477	$962,286	$840,232	$12,361,210
Diff	-$27,866	-$86,363	-$29,622	-$64,772	-$103,712	-$70,961	-$25,836	-$29,619	-$41,847	-$8,891	-$44,923	-$27,388	-$561,800
% Diff	-3.0%	-9.1%	-3.0%	-6.0%	-8.7%	-6.8%	-2.3%	-2.3%	-3.3%	-0.7%	-4.5%	-3.2%	-4.3%

Figure 2

Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023-2024	11,388,406	11,924,745	11,909,768	13,579,247	15,105,290	12,266,295	13,318,806	18,107,234	17,332,319	15,682,533	12,438,397	10,500,699
2024-2025	11,678,336	11,191,901	12,020,625	13,446,356	14,548,302	12,187,153	13,740,760	17,761,562	17,144,097	15,790,786	12,345,902	10,344,462
% Diff	2.5%	-6.1%	0.9%	-1.0%	-3.7%	-0.6%	3.2%	-1.9%	-1.1%	0.7%	-0.7%	-1.5%

Katy Independent School District

Energy Management Department
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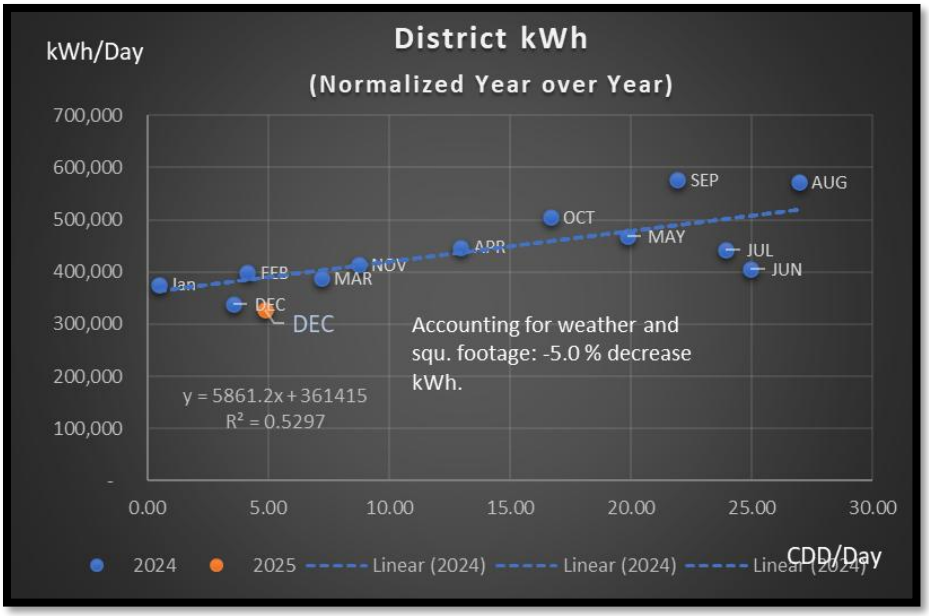
Jay Bonham
Energy Manager

Figure 3



kWh Breakdown

The chart below (Figure 4) shows the energy use per square feet, by building type. The **Adj%** column includes a weather and rate adj.

Figure 4

$/SQ. Ft.				
Type	**2025**	**2024**	**% Diff**	**Adj %**
ES	$0.046	$0.046	**-0.5%**	**-2.4%**
JH	$0.049	$0.053	**-8.9%**	**-10.8%**
HS	$0.051	$0.055	**-7.4%**	**-9.3%**
SUP	$0.058	$0.056	**3.2%**	**1.3%**

Katy Independent School District

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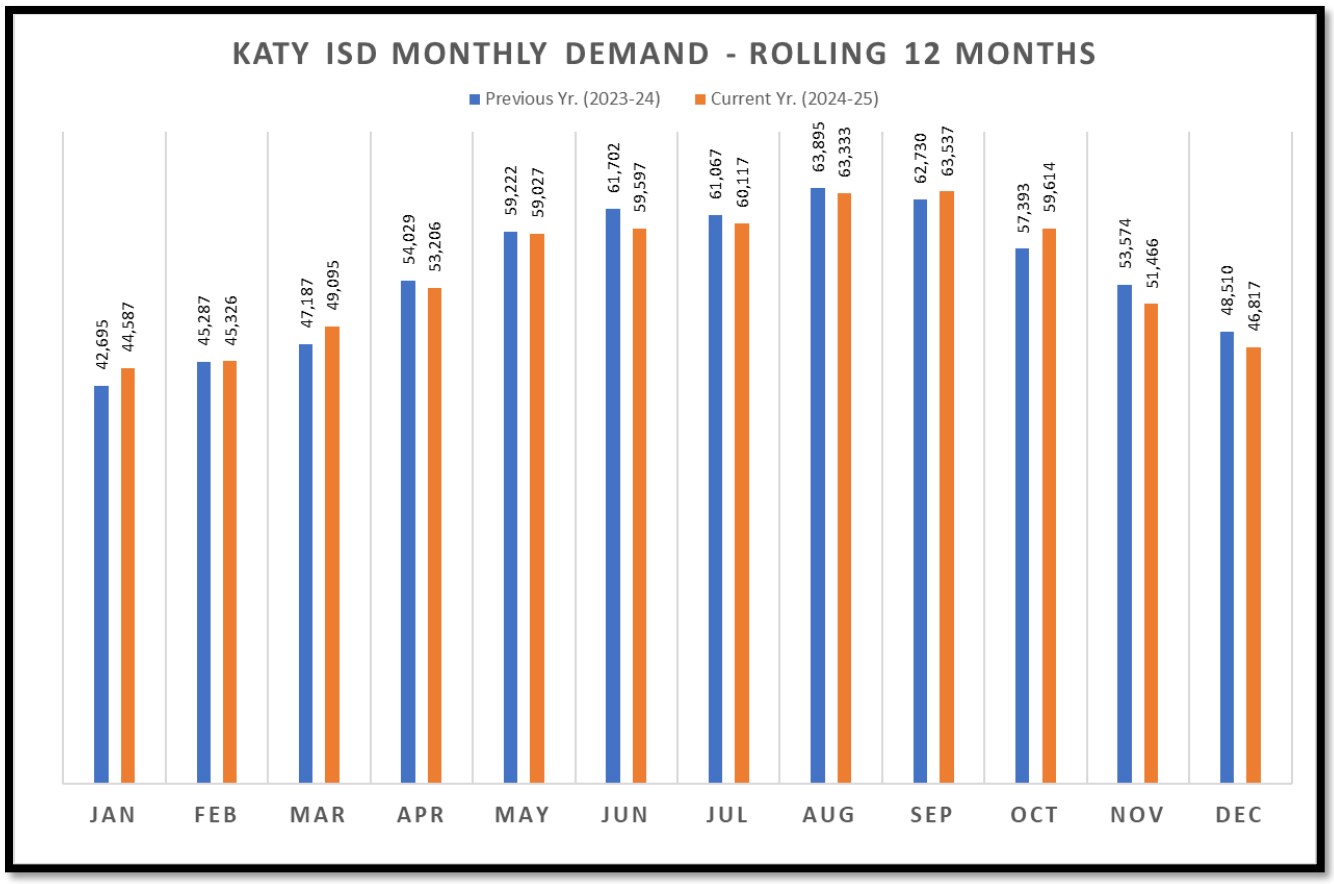
Energy Manager

District Demand

Figure 5



Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2023-24	42,695	45,287	47,187	54,029	59,222	61,702	61,067	63,895	62,730	57,393	53,574	48,510
2024-25	44,587	45,326	49,095	53,206	59,027	59,597	60,117	63,333	63,537	59,614	51,466	46,817
% Diff	4.4%	0.1%	4.0%	-1.5%	-0.3%	-3.4%	-1.6%	-0.9%	1.3%	3.9%	-3.9%	-3.5%

Katy Independent School District

Energy Management Department
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Jay Bonham
Energy Manager

Electric, Natural Gas, Water, and Irrigation Summaries for December.

	Electricity (kWh)			Electricity (Costs)			Natural Gas (CCF)			Natural Gas (Costs)			Total Costs		
	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc
Complex	103,342	95,276	-8%	$8,269	$8,254	0%	1,290	1,750	36%	$633	$938		$8,902	$9,192	3%
Elementary	3,135,662	3,191,813	2%	$275,360	$284,575	3%	20,385	22,615	11%	$9,287	$15,058	62%	$284,646	$299,633	5%
Junior High	1,885,083	1,887,447	0%	$169,941	$154,388	-9%	14,455	16,251	12%	$7,828	$9,626	23%	$177,770	$164,014	-8%
High School	4,496,145	4,238,785	-6%	$342,449	$317,627	-7%	85,602	73,035	-15%	$41,754	$41,219	-1%	$384,204	$358,845	-7%
Support	880,468	945,205	7%	$71,601	$76,392	7%	5,070	5,926	17%	$2,775	$4,234	53%	$74,376	$80,627	8%
TOTAL	**10,500,699**	**10,358,526**	**-1.35%**	**$867,621**	**$841,236**	**-3.04%**	**126,802**	**119,577**	**-5.70%**	**$62,277**	**$71,075**	**14.13%**	**$929,898**	**$912,311**	**-1.89%**
		(142,173)			($26,385)			(7,225)			$8,798			($17,587)	

	Water kGal			Water Costs			Irrigation kGal			Irrrigation Costs			Total Costs		
	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc	2024	2025	%Inc
Complex	67	42	-37%	$1,615	$1,753	9%				$0	$0		$1,615	$1,753	9%
Elementary	5,430	4,365	-20%	$69,110	$66,635	-4%	388	522	34%	$5,241	$4,768	-9%	$74,351	$71,403	-4%
Junior High	2,165	2,657	23%	$24,825	$30,809	24%	424	590	39%	$5,146	$5,841	14%	$29,970	$36,650	22%
High School	6,941	9,631	39%	$79,584	$106,216	33%	448	1,781	298%	$2,358	$9,146	288%	$81,942	$115,362	41%
Support	1,322	960	-27%	$11,289	$11,857	5%	167	409	145%	$932	$2,062	121%	$12,221	$13,919	14%
TOTAL	**15,924**	**17,656**	**10.88%**	**$186,423**	**$217,270**	**16.55%**	**1,427**	**3,301**	**131.30%**	**$13,676**	**$21,817**	**59.52%**	**$200,100**	**$239,087**	**19.48%**
		1,732			$30,847			1,874			$8,141			$38,987	

Katy Independent School District

Energy Management Department
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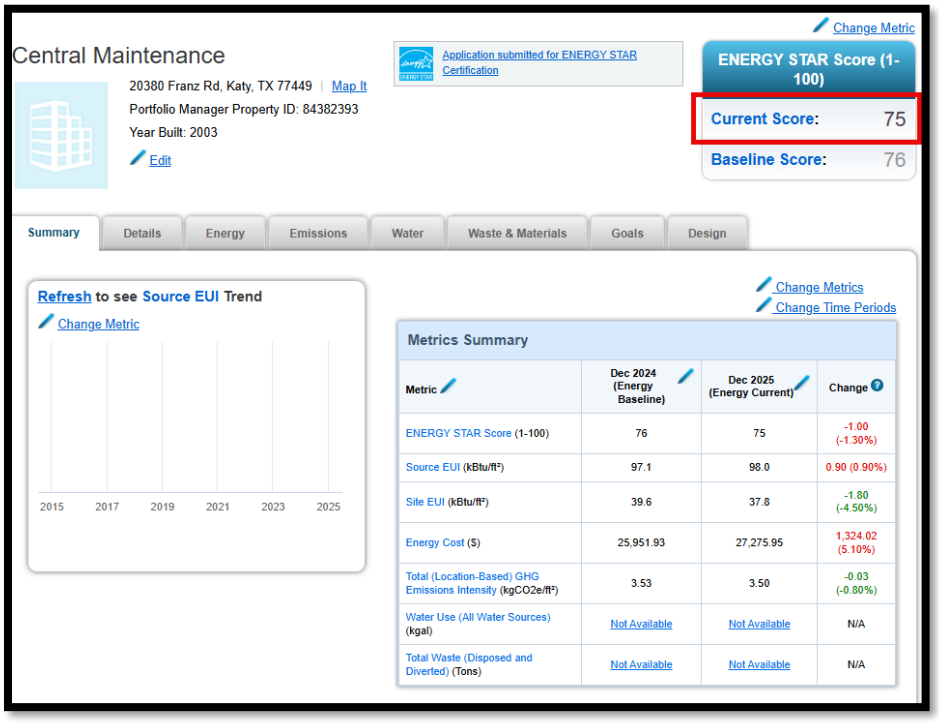
Jay Bonham
Energy Manager

Appendix A

ENERGY MANAGEMENT DEPT. NEWS

ENERGY STAR

Katy ISD qualified one additional building for Energy Star (Central Maintenance & Operations). Assuming Energy Star approves it, that gives us a total of 66 buildings that have Energy Star (78% of Katy ISD Buildings)!



Katy Independent School District

Energy Management Department
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Jay Bonham
Energy Manager

Appendix B

MONTHLY EFFICIENCY BENCHMARK ($/Squ. Ft.)

See below the monthly energy efficiency benchmark. This can be used to prioritize bond renovations and assess the performance of architectural and mechanical engineering firms regarding energy efficiency. The least efficient schools will be investigated. See the attached PDF for a benchmark on all District facilities.

Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

Least Efficient Elementary Schools (Dec)	Electricity Costs Per Squ. Ft.
Bear Creek Elementary BCE	$0.063
Morton Ranch Elementary MRE	$0.061
King Elementary RKE 120	$0.061
Faldyn Elementary RCFES	$0.059
Kilpatrick Elementary OKE	$0.058
Most Efficient Elementary Schools (Dec)	**Electricity Costs Per Squ. Ft.**
Robertson Elementary (SERE) 44	$0.034
Nottingham Country Elementary NCE	$0.034
Bethke Elementary CBE 141	$0.035
Leonard Elementary OLE 144	$0.036
Pattison Elementary HPE	$0.036
Least Efficient Junior High Schools (Dec)	**Electricity Costs Per Squ. Ft.**
Seven Lakes SLJH	$0.064
Woodcreek WCJH 052	$0.061
Stockdick SJH 013	$0.056
Morton Ranch MRJH	$0.052

Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

Most Efficient Junior High Schools (Dec)	Electricity Costs Per Squ. Ft.
Haskett JH (HJH)	$0.025
Nelson JH NJH	$0.032
McMeans JH MMJH	$0.035
Memorial Parkway MPJH	$0.036
Least Efficient High Schools (Dec)	**Electricity Costs Per Squ. Ft.**
Shaw Center High RSC	$0.087
Tompkins High OTHS	$0.060
Taylor High THS	$0.056
Most Efficient High Schools (Dec)	**Electricity Costs Per Squ. Ft.**
Freeman HS FHS	$0.038
Mayde Creek High MCHS	$0.043
Jordan High JHS 9	$0.046

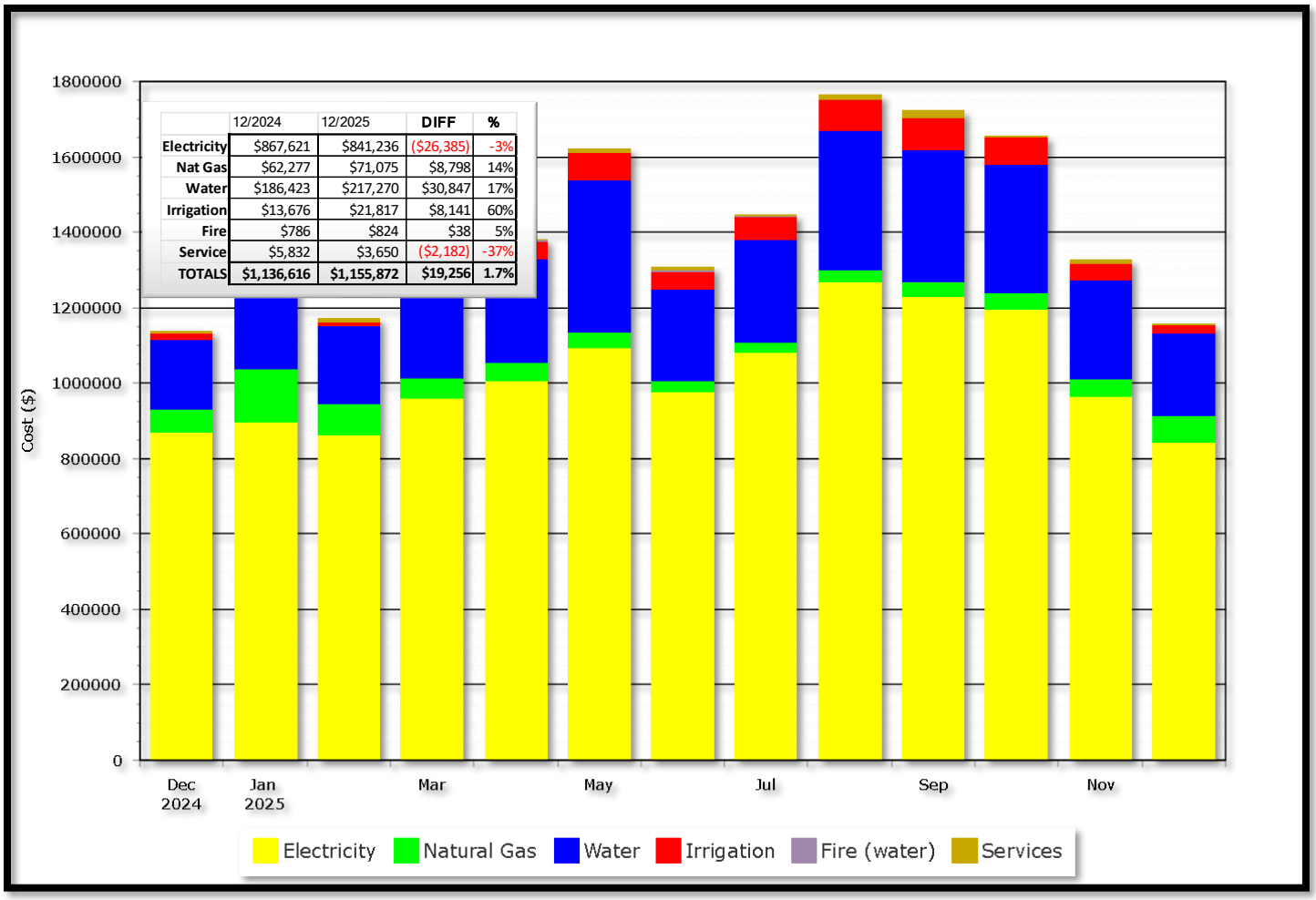
Appendix C

Katy Independent School District

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

13-Month Utility Cost Breakdown, Rolling (December 2024 thru December 2025)



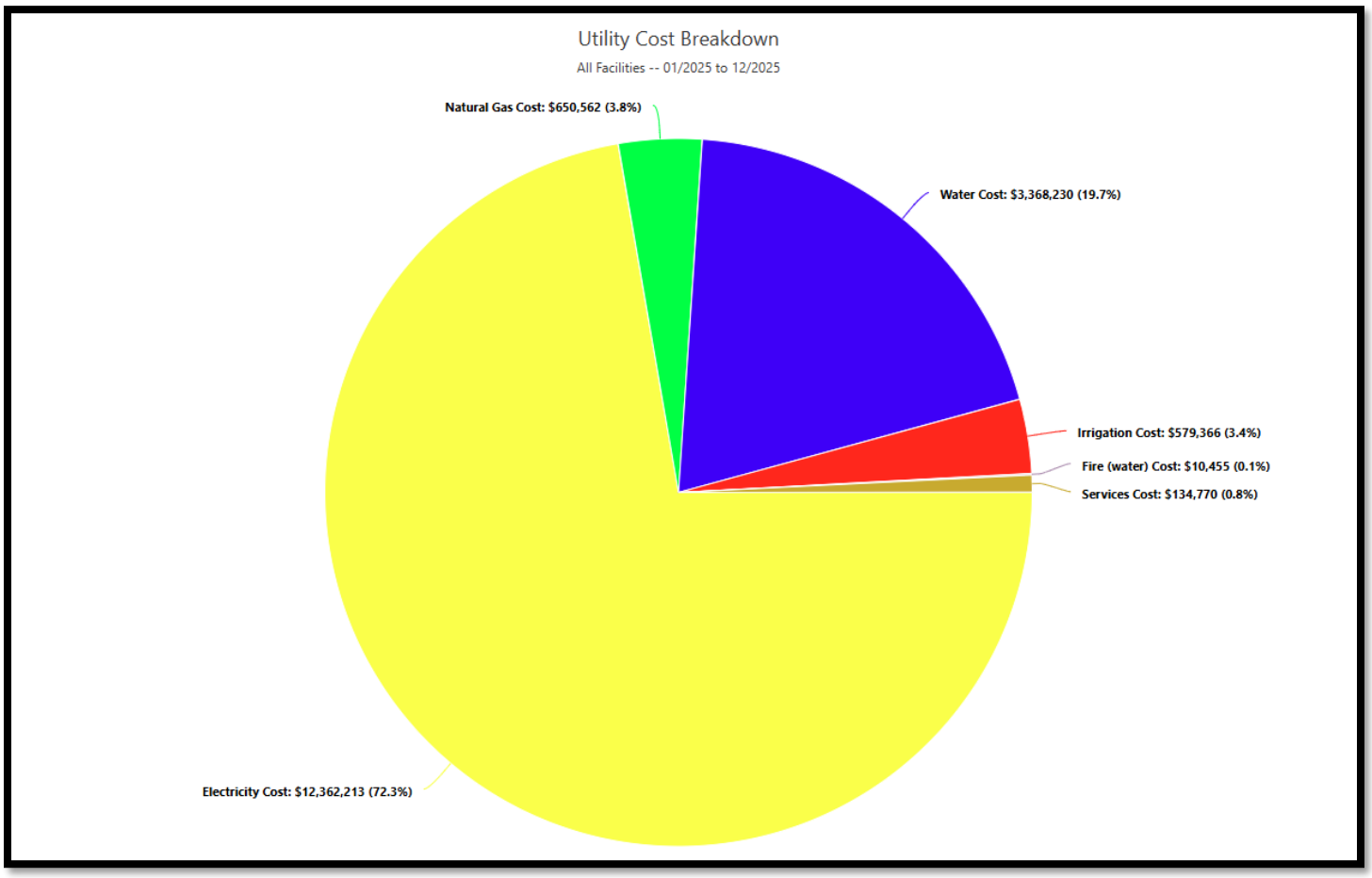
	12/2024	12/2025	DIFF	%
Electricity	$867,621	$841,236	($26,385)	-3%
Nat Gas	$62,277	$71,075	$8,798	14%
Water	$186,423	$217,270	$30,847	17%
Irrigation	$13,676	$21,817	$8,141	60%
Fire	$786	$824	$38	5%
Service	$5,832	$3,650	($2,182)	-37%
TOTALS	$1,136,616	$1,155,872	$19,256	1.7%

Energy Management Department
20380 Franz Road Katy, TX 77449

Jay Bonham
Energy Manager

Annual Utility Costs (12-month rolling, January 2025 to December 2025) total: $17,105,596

The Energy Management Department strives to work closely with all departments, developing strategies and guidelines to reduce wasteful practices to reduce energy consumption, and provide a comfortable environment for students and staff, at the lowest possible impact to the overall budget. The utility bills continue to be monitored for any unusual consumption and cost. If you have any questions, please contact Jay Bonham at (281) 396-2681.



Elementary Schools				
School Name	**EUI**	**LED/T8**	**Chiller**	**BAS**
Morton Ranch Elementary MRE	41.53	T8	Water Cooled	UNIFY
Holland Elementary BHE	40.28	T8	Air Cooled	CLIMATEC
Memorial Parkway Elementary MPE	39.52	LED	Air Cooled	CLIMATEC
Mayde Creek Elementary MCE	39.19	LED	Air Cooled	CLIMATEC
Stephens Elementary USE	39.10	T8	Air Cooled	CLIMATEC
Franz Elementary FES	38.47	LED	Air Cooled	UNIFY
King Elementary RKE 120	37.09	T8	Air Cooled	TRANE
Winborn Elementary DWE	37.08	LED	Air Cooled	CLIMATEC
Griffin Elementary MGE 127	36.37	T8	Air Cooled	UNIFY
Schmalz Elementary SES	35.61	T8	Air Cooled	TRANE
Sundown Elementary SE	35.34	T8	Air Cooled	CLIMATEC
Rylander Elementary RRE	35.08	T8	Air Cooled	UNIFY
Pattison Elementary HPE	34.98	LED	Air Cooled	DESIGO
Rhoads Elementary RES	34.01	T8	Air Cooled	UNIFY
Hutsell Elementary HE 105	33.34	T8	Air Cooled	UNIFY
Kilpatrick Elementary OKE	33.29	T8	Air Cooled	UNIFY
Bryant Elementary BES 142	33.25	LED	Water Cooled	INSIGHT
Woodcreek Elementary WCE 129	32.75	T8	Air Cooled	UNIFY
Golbow Elementary GE	32.66	T8	Air Cooled	DESIGO
Bear Creek Elementary BCE	32.21	T8	Air Cooled	UNIFY
Randolph Elementary JRE 139	32.02	T8	Water Cooled	UNIFY
Stanley Elementary SSE	31.56	T8	Air Cooled	UNIFY
Wilson Elementary TWE	31.52	T8	Water Cooled	TRANE
Shafer Elementary FPSE	31.04	T8	Water Cooled	TRANE
Nottingham Country Elementary NCE	30.13	T8	Air Cooled	UNIFY
Jenks Elementary MJE	29.60	LED	Water Cooled	DESIGO
Davidson Elementary KDE	29.38	T8	Water Cooled	UNIFY
Cimarron Elementary CE	29.02	LED	Air Cooled	CLIMATEC
McRoberts Elementary PME	28.75	LED	Air Cooled	ALC
Wolman Elementary RJWE	28.74	T8	Water Cooled	UNIFY
Youngblood Elementary YES	28.09	LED	Water Cooled	UNIFY
Wolfe Elementary WE 101	28.05	LED	Water Cooled	TRANE
Katy Elementary KE	27.31	LED	Air Cooled	UNIFY
Leonard Elementary OLE 144	27.18	LED	Water Cooled	UNIFY
Alexander Elementary RAE 117	26.97	LED	Air Cooled	TRANE
Faldyn Elementary RCFES	26.54	LED	Water Cooled	UNIFY
West Memorial Elementary WME 103	26.45	T8	Air Cooled	UNIFY
Campbell Elementary ACE 143	26.09	LED	Water Cooled	DESIGO
McElwain Elementary PMCE 43	25.91	LED	Water Cooled	UNIFY
Creech Elementary SCE	25.50	LED	Air Cooled	DAC
Exley Elementary JEE	25.14	LED	Air Cooled	UNIFY
Fielder Elementary FE	24.54	LED	Air Cooled	UNIFY
Williams Elementary JWE	24.30	LED	Air Cooled	UNIFY
Bethke Elementary CBE 141	24.14	LED	Water Cooled	DAC
Robertson Elementary (SERE) 44	23.48	LED	Water Cooled	Unify
Hayes Elementary JHE	23.35	LED	Air Cooled	ALC

Junior High Schools				
School Name	**EUI**	**LED/T8**	**Chiller**	**BAS**
Cinco Ranch JH	53.10	T8	Water Cooled	INSIGHT
Morton Ranch MRJH	43.14	T8	Water Cooled	UNIFY
Seven Lakes SLJH	42.29	T5	Water Cooled	CLIMATEC
Woodcreek WCJH 052	40.46	T8	Water Cooled	CLIMATEC
Mayde Creek JH	40.40	T8	Water Cooled	DESIGO
McDonald JH	39.22	T8	Air Cooled	UNIFY
Adams JH 16	38.20	LED	Water Cooled	DESIGO
Stockdick SJH 013	37.80	T8	Water Cooled	INSIGHT
Cardiff JH (CJH)	37.78	T8	Water Cooled	CLIMATEC
Katy KJH 041	36.47	LED	Air Cooled	UNIFY
Beckendorff BDJH	35.04	T8	Air Cooled	CLIMATEC
West Memorial WMJH	33.60	T8	Water Cooled	CLIMATEC
Beck BJH	33.35	LED	Air Cooled	UNIFY
Tays TJH	30.46	LED	Water Cooled	CLIMATEC
Memorial Parkway MPJH	29.60	LED	Air Cooled	TRANE
Nelson JH NJH	26.09	LED	Water Cooled	UNIFY
McMeans JH MMJH	24.80	LED	Air Cooled	CLIMATEC
Haskett JH (HJH)	21.17	LED	Water Cooled	CLIMATEC

Senior High Schools				
School Name	**EUI**	**LED/T8**	**Chiller**	**BAS**
Cinco Ranch High CRHS	72.13	T8	Water Cooled	INSIGHT
Katy High KHS 001	56.50	T8	Water Cooled	INSIGHT
Tompkins High OTHS	52.11	T8	Water Cooled	INSIGHT
Morton Ranch High MRHS	51.45	T8	Water Cooled	UNIFY
Taylor High THS	48.53	T-5	Water Cooled	UNIFY
Freeman HS FHS	45.40	LED	Water Cooled	UNIFY
Seven Lakes High SLHS	43.34	T8	Water Cooled	CLIMATEC
Paetow High PHS	43.29	LED	Water Cooled	INSIGHT
Mayde Creek High MCHS	41.56	T8	Water Cooled	DESIGO
Jordan High JHS 9	35.52	LED	Water Cooled	DESIGO

Support Buildings				
School Name	**EUI**	**LED/T8**	**Chiller**	**BAS**
Maintenance Annex	96.25	LED	DX	T-Stats
Law Enforcement Center (LEC)	69.11	LED	Air Cooled	UNIFY
Rhodes Memorial Stadium	61.98	LED	DX	INSIGHT
Education Support Complex ESC	55.80	T8	Water Cooled	UNIFY
East Transportation	51.38	LED	Air Cooled	UNIFY
Miller Career & Technology Center MCTC	48.56	T8	Air Cooled	CLIMATEC
South Transportation Center STC	39.99	LED	Air Cooled	INSIGHT
Maintenance & Operations	39.80	LED	DX	UNIFY
Opportunity Awareness Center OAC	37.13	T8	Air Cooled	INSIGHT
Support Service Complex 934	35.39	T8	Air Cooled	UNIFY
East Maintenance	28.47	LED	Air Cooled	UNIFY
ESC HR Annex 741	28.01	LED	DX	UNIFY
Coleman - SSA	27.07	LED	Air Cooled	UNIFY
AG Sci Center YAC - Pavilion, Barns, Outdoor Arena	26.92	LED	Air Cooled	UNIFY
Legacy Stadium LS	17.22	LED	Air Cooled	DESIGO