



# **Grand Prairie ISD FY2024 Energy Report**

# Our Purpose

The GPISD Energy Report provides a comprehensive overview of our district total electricity, water and natural gas usage and associated costs for FY2024. This report highlights key trends and fluctuations in energy usage, detailing the total consumption across GPISD’s facilities and the financial impact on our operations. By examining these metrics, we aim to identify areas for efficiency improvements, reduce operational costs, and promote sustainability in our resource management strategies. The following sections break down the usage data and costs for each utility, offering insights into our performance and the steps taken toward optimizing energy consumption.

## Mission

To create a sustainable and energy-efficient learning environment that nurtures environmental stewardship, reduces operational costs, and fosters a culture of sustainability among students, staff, and the community. By implementing comprehensive sustainability practices, we aim to significantly reduce our carbon footprint, conserve natural resources, and promote a healthy and sustainable future for all.

## Goals



**Reduce Carbon Footprint**



**Reduce Energy Usage**



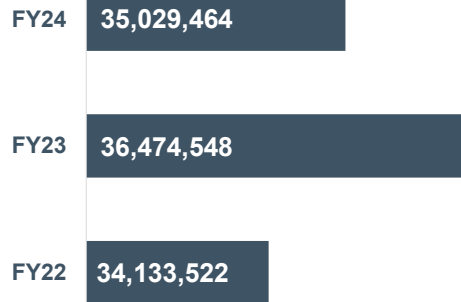
**Decrease Water Usage**



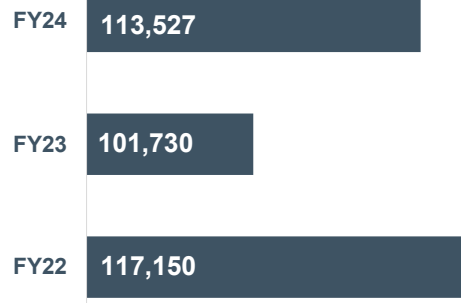
**Waste Reduction thru Recycling**

# FY2024 Utilities Usage

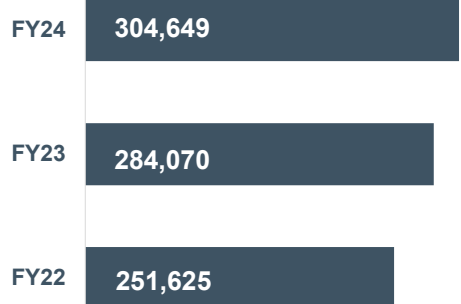
## Electricity (kWh)



## Water (kGals)



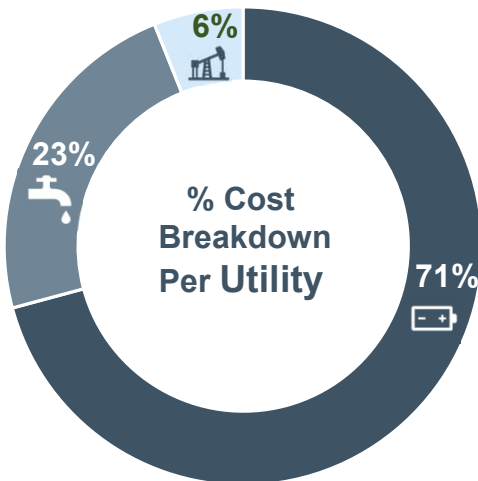
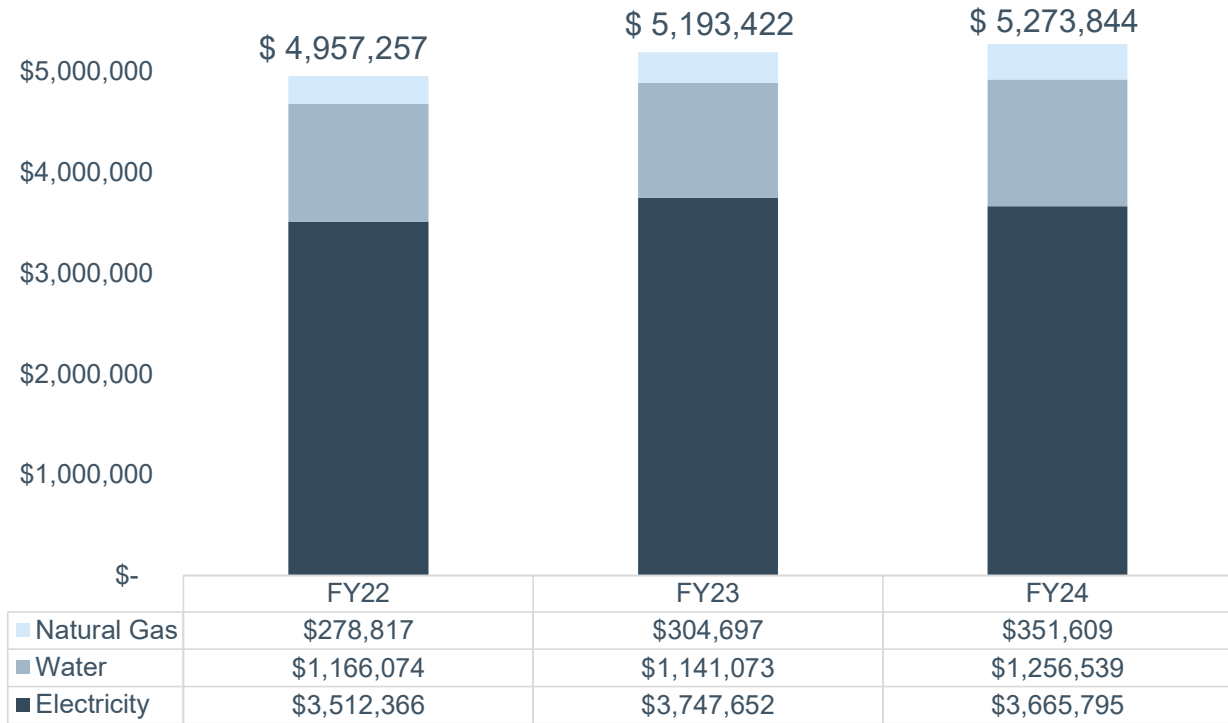
## Natural Gas (CCF)



A 4% reduction in electricity usage, a 12% increase in water usage, and a 7% increase in natural gas usage from FY23 to FY24

# FY2024 Utilities Cost

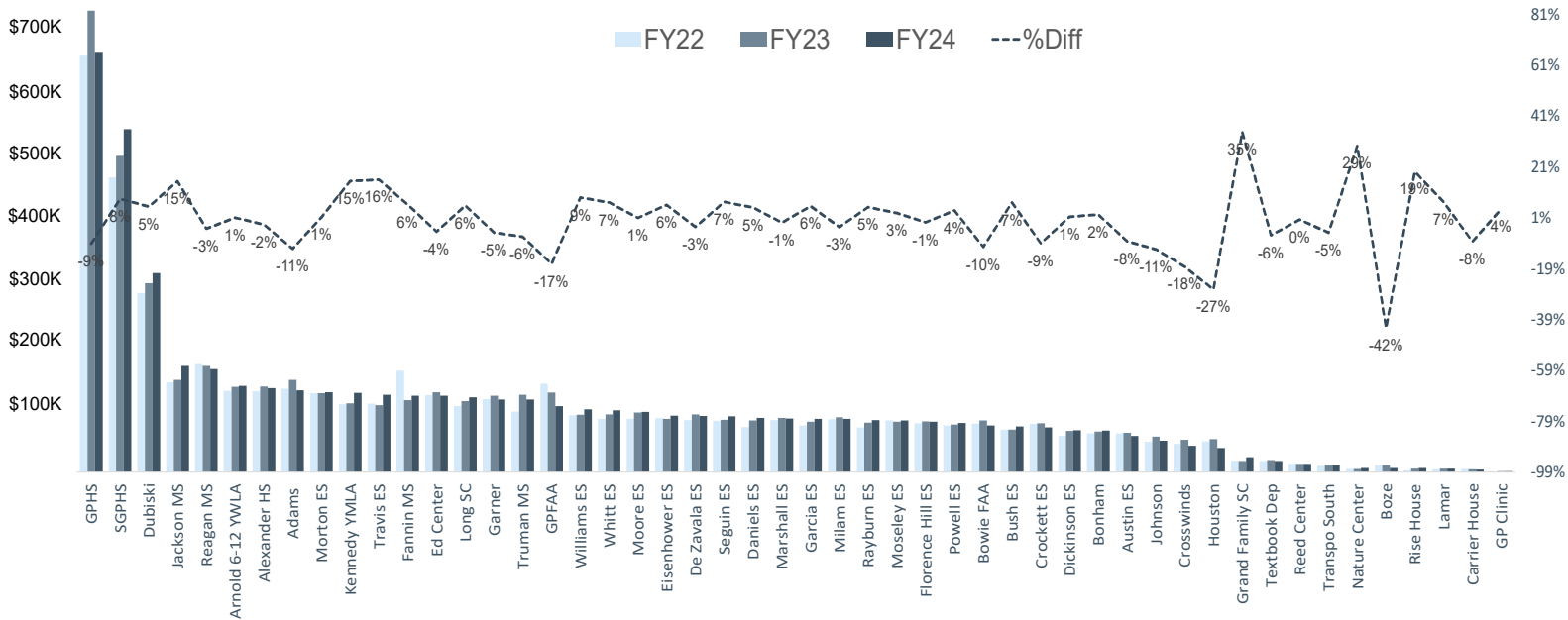
## Total Utilities Cost per Fiscal Year (\$)



A reduction of \$81.8K in electricity costs, an increase of \$115.5K in water costs, and an increase of \$47K in natural gas costs from FY23 to FY24.

This reflects a net increase of \$80.4K in total utility expenses, which is lower compared to the \$236K increase in utility cost from FY22 to FY23, despite the rate increases implemented by the utility suppliers for FY24.

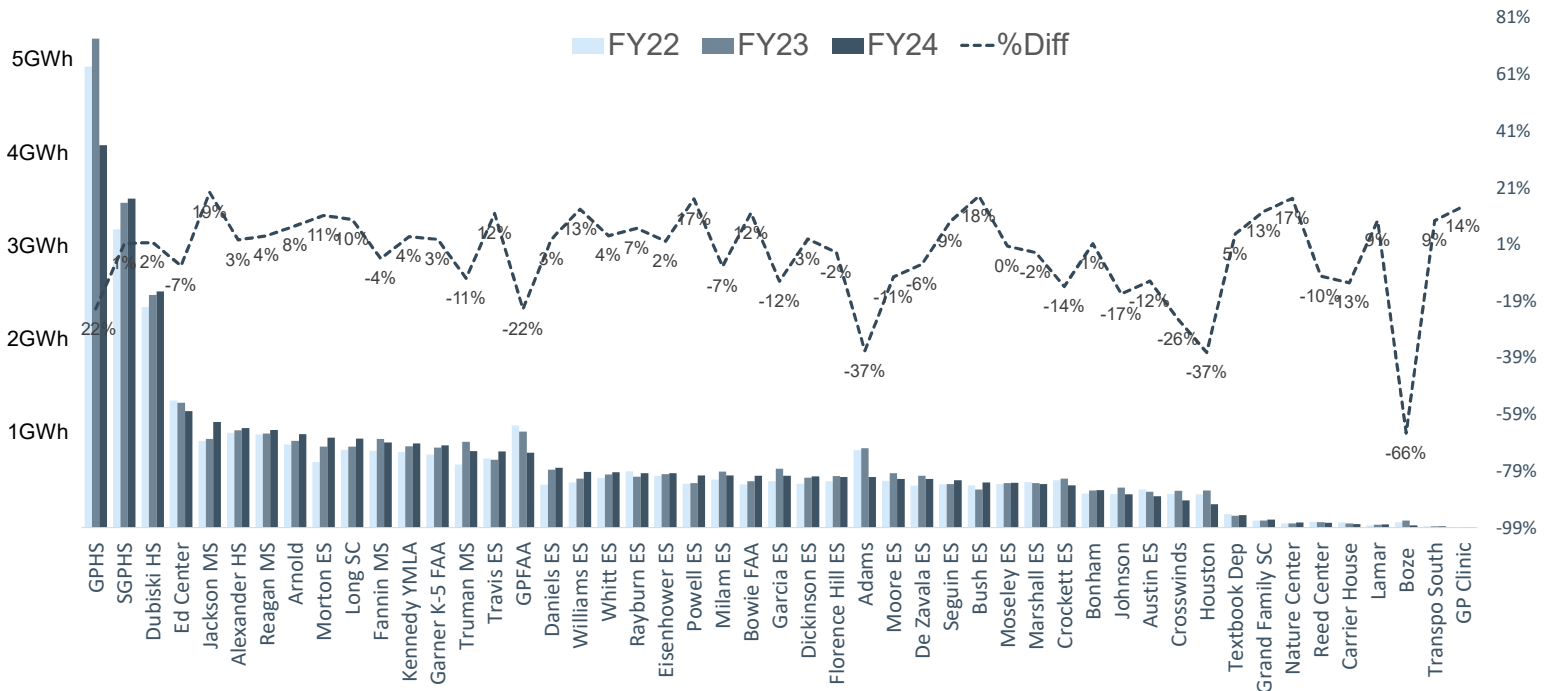
# Utilities Cost Per Campus



GPHS, GPFAA, and Adams have the largest reduction in total utility costs, amounting to \$119K, while SGPHS, Jackson, and Travis have the highest increase in utility costs, totaling \$81K.

GPHS, SGPHS, and Dubiski are the schools with the highest overall costs, accounting for 29.4% of the overall utilities cost.

# Electricity Usage Per Campus



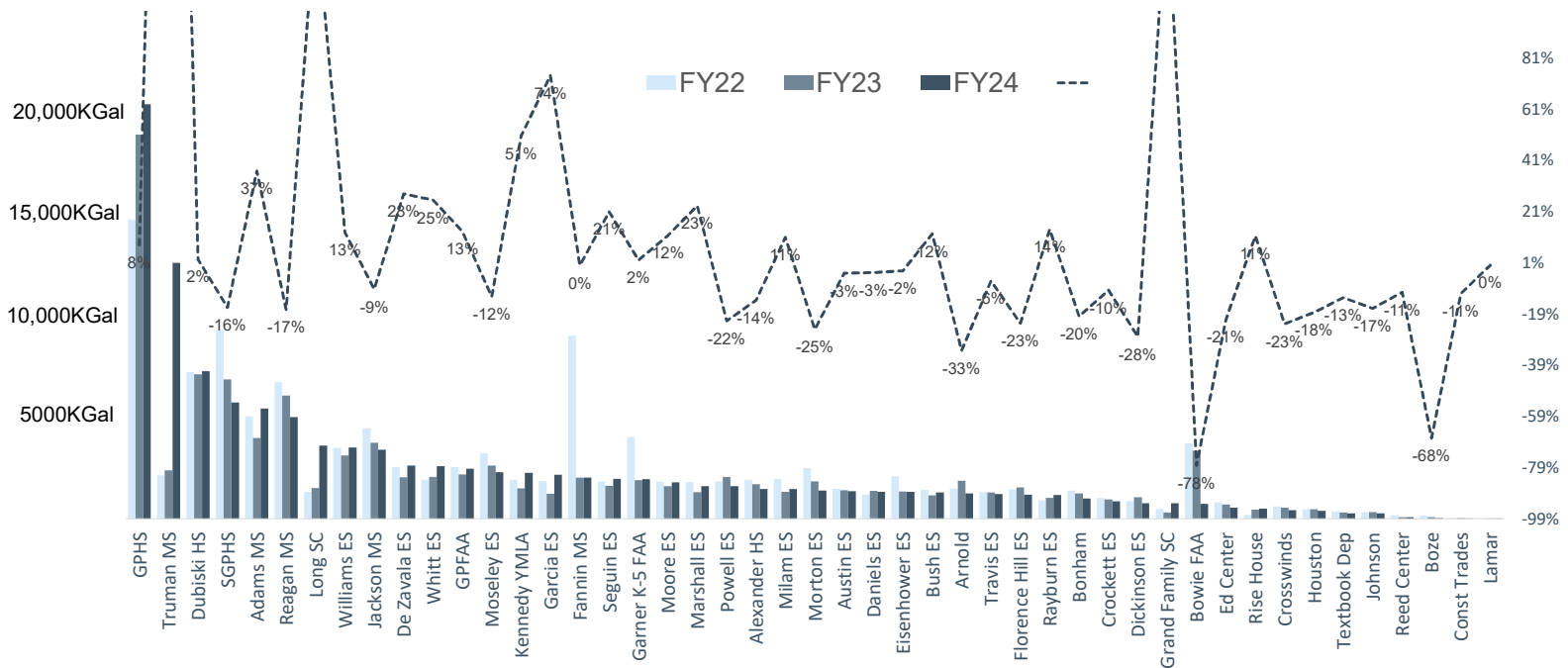
GPHS, Adams, and GPFAA are the primary contributors to the reduction in electricity consumption, accounting for a reduction of 1.67GWh.

Jackson, Morton, Travis, Powell, Bush, Williams, and Service Center have contributed to the increase in consumption, which totals 0.67GWh

GPHS, SGPHS and Dubiski have the highest electricity consumption, accounting for 29% of the total usage for FY24

\*1GWh = 1,000,000 kWh

# Water Usage Per Campus



Bowie, SGPHS and Reagan experienced a significant drop in water consumption, totaling 4,809 kGals for FY24. However, Truman contributed an increase of 10,239 kGals in water usage, primarily due to overconsumption in September 2023. This issue has already been addressed.

GPHS, Truman, Dubiski, SGPHS, Adams and Reagan are the schools with the highest water usage totaling 56,601 kGals for FY2024

There are ongoing water and irrigation campaigns planned to address and resolve water leaks.

# Next Steps for FY2025

## Goals



**Reduce Carbon Footprint**



**Reduce Energy Usage**



**Decrease Water Usage**



**Waste Reduction thru Recycling**

## Action Items

- Implementation of Long-Range Energy Plan
  1. District-Wide Energy Plan Engagement
  2. Energy Usage and Benchmarking
  3. Efficient Heating and Cooling
  4. Low Energy Lighting System and Electrical Asset Management
  5. Green Operations
  6. Facility Design and Construction
- 4CP Demand Response (\$130K savings for FY25)
- 2024 Energy Star Certification for Arnold and Kennedy Campus (10 additional campuses are qualified)
- Monitoring system for Recycling and campaigns
- Personal appliance request process improvement
- Water leak campaigns
- Power Factor Corrections
- Cooling Tower Water Treatment incentives/rebates

