

# Hayes Energy Services Program Summary

Forty-four LifePoint Hospitals participated in an energy conservation program during 2011 utilizing daily reporting, monthly on-site energy audits, and best practices from our experiences with almost 400 other hospitals using this program.

Hayes Energy Services (HES) energy audits are conducted to review utility and operating data to evaluate energy consumption, rate structures, and to create an weather corrected energy use profile for each hospital.

Monthly on-site visits by HES engineers and a facility walk through to identify additional savings opportunities and further investigate areas of energy waste or energy inefficiency.

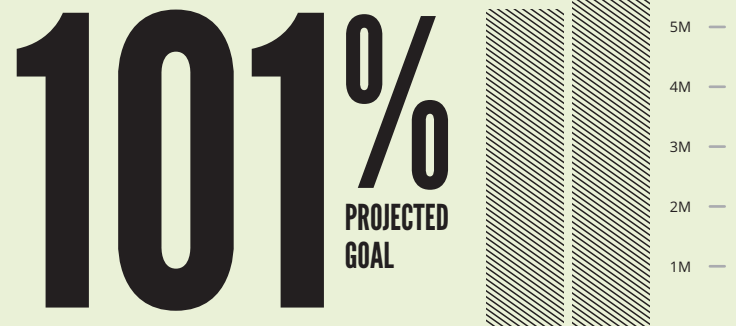
Corrective measures are then prescribed with estimates for implementation, operating cost savings and payback periods to help prioritize energy-efficiency and realize future ROI.

Hayes Energy assisted the corporate engineering staff of Lifepoint Hospitals by analyzing each hospital's electrical load and determining the appropriate size for a trailer mounted generator. This data will be used to deploy the correct generator size and equipment in the event of a natural disaster similar to the April 28, 2011 tornadoes.

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## 2011: Percent of Projected Goal Reached

Hayes Energy Services



Projected Goal was \$5.2 Million in Annual Savings. Achieved \$5.3 Million in Annual Savings.



*Due to The recommendations made by Hayes Energy, LifePoint Hospitals reduced their carbon footprint by 34,433 metric tons of CO<sup>2</sup> In 2011. That's the equivalent of planting 310,547 Mature trees.*

**Hayes Energy Services**

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# Snap Shot

## Vaughan Regional Medical Center



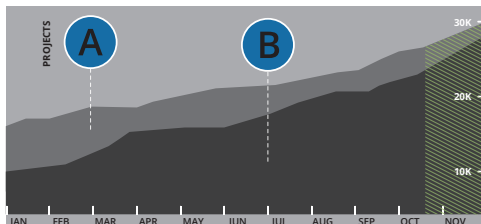
Since 2009, the plant operations team at Vaughan Regional Medical Center in Selma, Alabama has made energy efficient operations a priority. Through a plan developed in consultation with Hayes Energy and daily attention to detail, they've reduced the energy needed to operate their hospital.

An on-site audit identified the primary opportunities to reduce energy use for heating and cooling the 263,000 square foot campus. The team monitors energy on a daily basis and conducts in-depth assessments each month. Every day, the hospital's energy readings are reviewed in the context of outside air temperatures and the system is adjusted based on these reports.

Monthly on-site checks measure discharge temperatures on air handler systems, hot and chilled water temperatures, steam distribution systems, and boiler efficiency to make sure they are operating at peak performance for the weather conditions. As the weather changes, the recommendations for peak efficiency also change but the total time required is typically less than 10 minutes per day.

### Savings From Recommendations

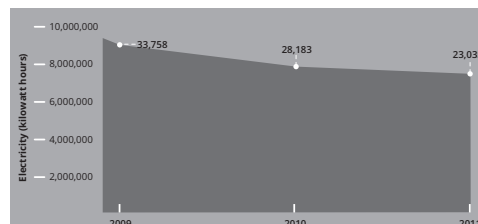
Vaughan Regional Medical Center



- A. Power Factor Correction = \$30,000 Annual Savings
- B. Electrical Utility Rate = \$27,200 Annual Savings

### Energy Use by Vaughan Regional

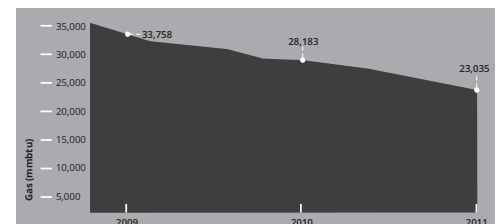
Electricity (kilowatt hours)



- 263,000 Sq. Ft. campus
- 3 stories

### Energy Use by Vaughan Regional

Gas (mmbtu)



- multiple medical office buildings
- 175 hospital beds