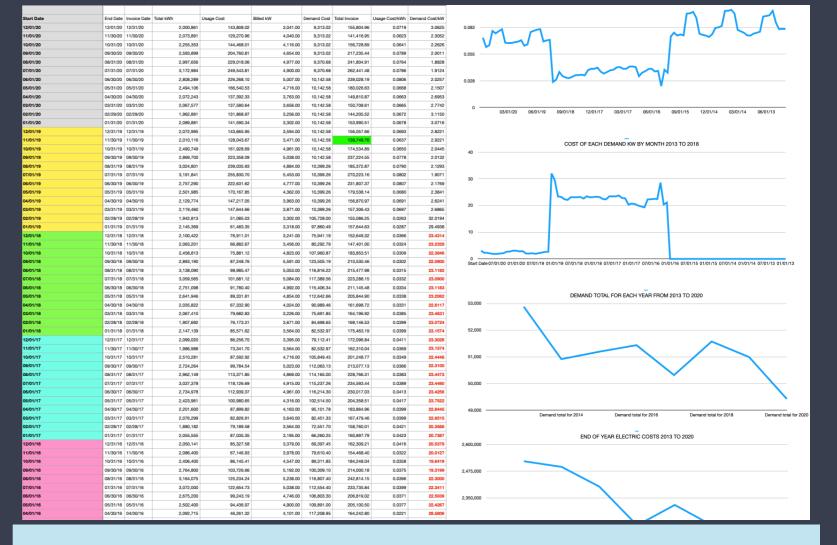
## CASE STUDY FINDING YOUR PATHOO SUSTAINABILITY : UTULITY DATA ANALYSIS





We count on utility service to deliver twenty four hours a day to keep our home warm and our hospitals working. Without the delivery of these services our world would grind to a halt. However, for every minute of consumption comes the cost of its use. Beyond just the expense is the environmental expense behind it, created by our industries selling these services. When an organization uses fuels and electricity it does not aim to harm or impact the environment but this occurs.

Industry has given us little opportunity to buy clean power and the gas we buy isn't clean no matter what we do. So how does an organization become "sustainable" and environmentally friendly? It starts with analysis of your energy usage patterns.

## **MISSION OBJECTIVES**

## A PATH TO Sustainable Practices

- Utility Analysis
- Energy Studies
- Shifting of expectations
- Planning of projects
- Execution and verification



In 2020 Upgrade~Evolve Consulting partnered with a regional Level 1 Trauma Center Hospital to help them find a path to more efficient and sustainable operation. Utilizing ten years of hospital energy usage data, including utility level audit reports, past billing data and more, an analysis report was created to inform the administration of how they utilized energy and benchmarked good performance compared to wasteful.

In the graphs posted on this case study were found excess power waste due to outdated heating and cooling controls, overlooked free cooling opportunities, and unused technology upgrades that produce four year returns on invested capital. Also an outdated and outmoded central utility powerplant was apparent. With the advent of new electronic controls and HVAC improvements the Energy Star profile leaped from an 8 to a 36 in two years! Over \$700,000.00 in rebates were recovered in those first two years and negotiation and utility pricing strategy was employed with the help of U.E. staff to hedge against inflationary pricing released by the utility in year three of improvements.

The results have been the equivalent of planting over 8500 acres in trees for offset of carbon emissions alone. The savings accrued has created greater capital availability for improved operating room heating and cooling systems and more. A new breath of fresh air for the facility staff who have planned improvements in the past but have been made to wait; now are improving and operating the new hospital infrastructure.



A goal of nothing is easily accomplished every year. With the right partner you can accomplish what seems impossible. Upgrade~Evolve Consulting works to uncover the waste, improve the inefficient, and simplify the new, rather than complicate and conjugate meaningless products and services.

From Central Utility Plant commissioning and redesign to lighting upgrades, we perform where many organization do not have the will to uncover and create. But it all starts with a plan. A plan to succeed and grow into a new role of greener and more sustainable operation.

Streamlining every operation and tool on the infrastructure side of your organization may not be your cup of tea but is what we do and we do it well.

