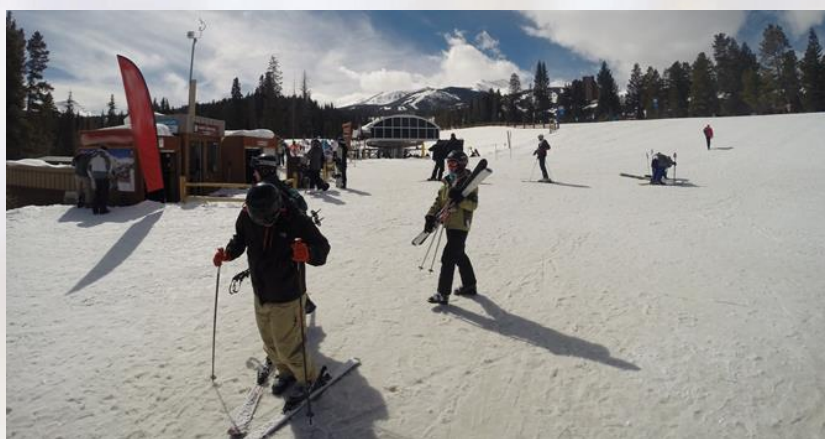


# Empowering Recreation Industry Site Efficiency

Site personnel strongly agree that Graphet Data Mining expertise was key to understanding energy use at the facility to set and achieve realistic targets for efficiency. They see value in using monitored data to establish baselines and identify peak usage patterns. They continue to use a data-centric approach to make energy related decisions.

- Pumping optimization
- Compressed Air optimization
- Equipment controls strategy
- Snow Gun replacement strategy
- Lighting redesign
- Infrastructure Expansion efficiency



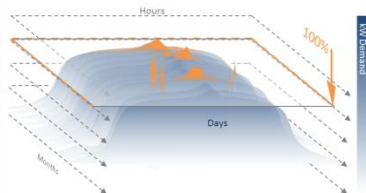
## About

Graphet Data Mining has facilitated long term energy efficiency strategy and energy planning for high profile sites owned by one of the leading ski resorts companies. With the help of Graphet Data Mining, effective data mining and analysis of data from energy intensive operations at the ski resorts was conducted. This included monitoring and study of pumping, snow gun operations, lodging facilities and ski lift schedules during and between ski seasonal activities.

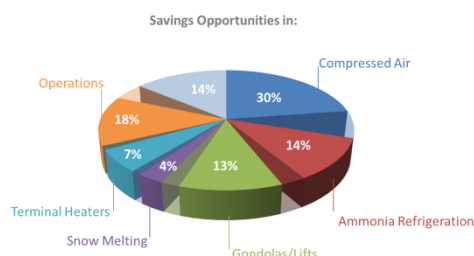
Graphet Data Mining partnered with local energy providers to facilitate process efficiency, energy management support, and provide justification for rebate approvals.

Total energy usage totaled 44,075,272 kWh in the baseline year. Graphet's modeling and analysis toolset was used for accurate targeting and tracking of savings opportunities. Energy consumption was monitored in each building with savings opportunities identified within systems including compressed air, pumps, gondolas & lifts, snow melting, heaters, and operations.

Peak Demand Management



Electric Energy Consumption



An energy plan was developed establishing low, medium, and high priority energy conservation opportunities carefully selected to generate the biggest savings margins. **By investing in the high priority savings opportunities, energy costs could be reduced by almost 7% yielding simple payback after rebates in less than 1 ½ years.**

## Energy Savings Snapshot



### • Payback:

- High Priority Projects: **1.4** years
- Mid Priority Projects: **3.4** years
- Low Priority Projects: **26.5** years

### • Rebates:

Maximum rebates available across all projects:

**\$944,257**

### • Potential Energy Reduction:

**7,933,548** kWh

Potential Carbon Emission Reduction  
**5,471**  
metric tons CO<sub>2</sub><sup>++</sup>

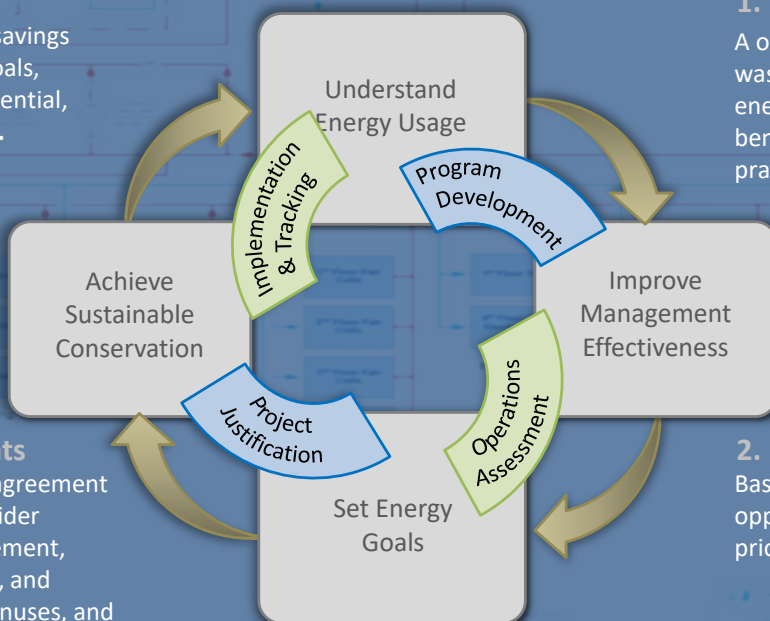
## Process for Success »

### 4. Empower Sustainability

Graphet identified up to 38% in savings potential. High priority energy goals, accounting for nearly the full potential, would yield payback in 1 ½ years.

### 3. Implement Improvements

With Graphet's energy plan, an agreement was signed with the energy provider outlining improvements to implement, setting a timeline for installation, and detailing customized rebates, bonuses, and support.



### 1. Identify Opportunities

A one-day energy management session was performed on site to evaluate energy-intensive processes and benchmark energy management practices.

### 2. Develop Action Plan

Based on energy usage patterns, savings opportunities were identified and prioritized.

