

# 5 Ways to Improve Energy Management with Advanced Analytics

Companies today have an abundance of energy data at their fingertips. Understanding how to use that information effectively is essential. Advanced analytics can help turn energy data into actionable insights that support more effective energy management and more predictable budgeting.

The following steps provide practical ways analytics can be used to support stronger energy decisions:

## 1 Analyze energy bills for issues

Energy bills may contain errors that can increase energy costs. By regularly evaluating your energy bills, you can identify:

- ✓ Billing errors
- ✓ Operational issues
- ✓ Sudden changes in energy usage

Advanced analytics tools can automate this process, allowing you to identify issues earlier and more accurately plan your month-to-month budgets.

## 2 Identify energy inefficiencies

Businesses experiencing increased energy use need to identify which systems are contributing to those increases. Evaluate your facilities for common operational issues such as:

- ✓ Aging lighting systems
- ✓ Major appliances operating during peak hours
- ✓ Inefficient HVAC systems

Analytics tools can help you identify specific energy inefficiencies within your facilities, making it easier to address them and reduce their impact on your energy use and budgets.

## 3 Monitor energy usage data

Understanding how your business's energy usage has evolved over time can help you find patterns and anticipate future changes. By reviewing historical energy usage data, you can identify patterns such as:

- ✓ If your company's natural gas usage is higher during certain times of the year
- ✓ How energy consumption fluctuates with your building's occupancy rate
- ✓ If your building and/or equipment has become progressively less energy efficient over months or years

Analytics tools can help you access and visualize historical data about how your company's energy use has changed. By identifying past patterns, you can make more informed budgeting and energy purchasing decisions.



#### 4 Analyze the changing market and usage patterns

Changes in usage patterns and market conditions can influence energy costs and purchasing decisions. Making accurate predictions about your business's energy usage often depends on several factors, including:

- ✓ Your company's current energy usage
- ✓ Historical usage data
- ✓ Overall market data

Analytics tools can help incorporate these elements to identify potential cost changes and analyze market fluctuations. You'll receive alerts about the changing prices to help you make informed decisions about your purchasing strategy.

#### 5 Compare energy usage from multiple facilities

If your business operates multiple facilities, comparing energy usage across locations can help highlight performance differences. This comparison can help you identify:

- ✓ Buildings or locations with the highest energy usage
- ✓ Energy-intensive equipment operating during peak hours
- ✓ Areas where energy efficiency upgrades could improve performance

Analytics tools can help you determine which buildings or locations use the most energy to help you understand what's driving higher usage and where changes could have the most significant impact.

#### Using Analytics to Support Smarter Energy Management

Optimizing how you use energy data can help you manage costs and plan more effectively. Constellation offers a variety of analytics tools that give you the power to turn your utility data into actionable insights, manage costs more proactively, understand trends and develop strategies to manage costs across your operations.

Connect with an experienced energy specialist to learn more about how you can improve your energy management strategy with Constellation's advanced analytics tools. [Contact us today.](#)

