

# Checklist: 5 ways to improve energy management with advanced analytics

While companies today have an abundance of energy data at their fingertips, it's often a challenge to put it to use. With advanced analytics, you can turn energy data into actionable insights to achieve more effective energy management and more predictable budgeting. **Here's how:**

## 1 Analyze energy bills for anomalies

If you don't analyze each of your energy bills, you may miss errors that can dramatically drive up your energy costs. It's important to regularly evaluate your energy bills for anomalies such as:

- ✓ Billing errors
- ✓ Operational issues
- ✓ Sudden and drastic changes in your energy usage

With advanced analytics tools, you can automate this process, so you can worry less about sudden spikes in your energy bills and more accurately plan your month-to-month budget.

## 2 Pinpoint energy inefficiencies

If your business is experiencing a rise in energy consumption, it's important to narrow down which systems are contributing to those costs. Evaluate your facilities for these common issues:

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

Analytics tools can help you pinpoint specific energy inefficiencies within your facilities, so you can quickly address them and minimize any negative impact on your energy consumption and budget.

## 3 Monitor energy usage data over time

Understanding how your business's energy usage has evolved over time can help you predict similar changes in the future. Look for patterns such as:

- ✓ If your company's natural gas usage is generally 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



With analytics, you can access and visualize historical data about how your company's energy use has changed. This can help you identify patterns, so you can anticipate similar events in the future and adjust your budget and energy purchasing strategy accordingly.

## 4 Predict the changing market & usage patterns

Making accurate predictions about your business's energy usage should take into account a number of different factors, including:

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

Some analytics tools, such as those from Constellation and its affiliate company, Exelon Generation Services, incorporate all of these elements to predict when energy costs may be higher. Then, you receive alerts about the changing prices, so you can make timely, informed decisions about your energy purchasing strategy.

There is an incredible amount of actionable insights to gain from your energy data. Constellation offers a number of analytics tools that can provide these meaningful insights.

## 5 Compare energy usage from multiple facilities

If your business operates multiple facilities, compare each location's energy usage. Take into account:

- ✓ Which building or location consumes the most energy?
- ✓ Does that building operate energy-intensive equipment during peak hours?
- ✓ Could that building improve energy performance by implementing energy efficiency upgrades?

Analytics tools can enable you to determine if one building or location in particular consumes a large portion of your energy. By investigating this further, you could identify what that increased consumption stems from and how to fix the issue.

Learn more in our article [5 Ways to Use Analytics to Manage Your Energy and Achieve Budget Certainty](#), or [contact us](#).