Take Control of Energy Costs at Your Industrial Facility with EnerNOC’s Energy Intelligence Software

For industrial plants with multiple processes or production lines, energy-intensive assets, and production outputs, EnerNOC’s energy intelligence software (EIS) is a solution to manage operations costs by incorporating energy into production scheduling and plant operations decisions. Unlike add-on energy dashboards for industrial automation systems and homegrown sub-metering deployments, EnerNOC’s software provides you a complete view of energy costs and tools to manage the major drivers of energy costs—how you buy energy, how much you use, and when you use it.

With EnerNOC’s energy intelligence software and services, businesses can make more intelligent operating decisions. EIS can help you:

• Get the best price for energy
• Dramatically reduce the time spent tracking accruals, budgets, and forecasts—while improving accuracy of those reports

• Measure performance against your organization’s goals and KPIs, and compare energy usage over time
• Track your energy data and manage utility bills in a single cloud-based system—resulting in less time wasted and fewer errors
• Gain an accurate view of costs and minimize exposure by incorporating actual electric rates and your production data
• Track performance against energy management goals
• Get the visibility you need to tame peak demand charges
• Participate in demand response (DR) and earn additional revenue for your flexibility

Get the Best Price for Energy

Every business has to buy energy—whether it’s in a vertically-integrated or in a deregulated market. And given the complexity of tariffs and supplier contracts, it’s next to impossible to know if you are paying the best possible price. With EnerNOC’s EIS,
Understanding Energy Cost Drivers
Unlike most commodities, energy costs aren’t simply a function of price x quantity. A third dimension, when you use energy, can add increased complexity. And to yield maximum value, savvy plant managers and financial decision makers manage all three cost drivers holistically:

**CONTRACT**
How you buy energy:
Buying energy isn’t as simple as paying a monthly bill. Did you get the best price? Are you exposed to market risk? How are you performing against your budget? Is your utility bill even accurate?

**BILL**
How much you use:
The cheapest kilowatt hour is the one you don’t use. Are your facilities or processes operating most efficiently? Are you using more energy than you need to achieve your business goals?

**DATE**
When you use energy:
Not every kilowatt is created equal. Are you able to shift your operations to take advantage of lower cost times to use energy? Do you have the operational flexibility to turn your willingness to use less into a revenue stream?

EnerNOC’s energy intelligence software manages all three energy cost drivers in a single platform, allowing all parts of the organization to align around a common set of goals and KPIs, drive efficiencies and savings, and streamline operations.

Create Better Budgets and Track Accruals
There’s nothing worse than getting surprised by a big energy bill that wasn’t in your original forecast. As your production volumes and day-to-day operations change, it can be hard to stay on top of the energy line item in your budget. With the deep visibility into your plant provided by EnerNOC’s EIS, it’s easy to identify the actual energy-related costs of production so you can improve your budget and forecast accuracy. For operations managers who report operating expenses against budgets, EIS streamlines cost accrual accounting by tracking costs incurred throughout a billing period.

Measure Performance against Goals, Track KPIs, and Continuously Improve Process
Setting actionable energy management goals has a direct and significant impact on your bottom line. Even if you haven’t already established goals, our team of experts will facilitate a workshop to assess the maturity of energy management at your organization. We’ll work with you to set goals, establish metrics, and design systems to ensure persistence of improvement measures. With EIS, we ensure you’re collecting the necessary energy and production data to track success against your unique objectives, and we’ll configure our tools for custom reports that will help you track your key performance indicators.

Say Goodbye to Spreadsheets
If you’re like many industrial energy engineers, you probably spend significant time building and maintaining complicated spreadsheets to track energy data from your facility. Our software puts valuable hours back into your schedule by taking that data out of spreadsheets and making it accessible by other back-office financial and operational systems that are required for better planning. EnerNOC’s utility bill management (UBM) software streamlines management of your utility bills and provides extensive online energy tracking and trending capabilities. Studies show that two percent of bills contain errors, and our UBM software provides improved bill transparency to help you track cost figures and potentially identify outliers and mistakes.
Identify the Drivers of Energy Cost and Manage Exposure to Real-Time Prices

In complex industrial facilities, it can be next to impossible to effectively manage the energy line item in your operating budget without knowing how much each of your process or production lines contributes to your overall cost. EnerNOC’s software applies a robust utility tariff engine to calculate actual costs at the plant level. With granular visibility into your real-time consumption down to the process level through sub-metering, our software provides you deeper insight into which processes cost you the most. Our software also provides visibility and alerts on real-time prices, allowing plants which purchase energy on index markets to better manage risk and avoid price shocks.

Tame Peak Demand Charges

Savvy energy managers know that you pay not only for how much energy you consume (kWh), but also your peak demand (how much power needs to be “reserved” for you to meet your demand when you’ve got all systems running full tilt). In many locations, this variable expense can comprise 30% or more of your bill. With EIS, you’ll get the visibility and analytics you need to understand the benefits and costs of adjusting operating and production schedules to avoid costly peak demand charges.

EnerNOC’s software can also forecast new system peaks, giving you day-ahead notification of when peaks are likely to occur—and quantify the amount of money you stand to save by taking action.

Get Paid to Use Less When it is Needed Most

Demand response (DR) programs pay large energy consumers to reduce at times when the grid is stressed, there is a shortage of available supply, or when real-time prices for electricity are skyrocketing. As the global leader in demand response, EnerNOC provides access to more demand response markets globally than other providers, creating revenue to fund your energy intelligence software investment. Our software provides real-time visibility into demand response dispatch performance in intuitive dashboards and visibility into the financial impact of your participation in demand response. Our demand response network is supported 24x7x365 through our Network Operations Center (NOC), which administers and monitors more demand response programs than any other company in the world. This combination of software and professional services ensures that you’re maximizing your demand response revenue opportunity, which can then be used as a funding mechanism for even further energy efficiency investments.
**The EnerNOC Difference**

EnerNOC’s energy intelligence software is a secure, web-based Software as a Service (SaaS) solution, ensuring you automatically have access to the latest and greatest versions without time consuming and expensive downloads.

Unlike other solutions, EnerNOC’s EIS:

- Shows true energy costs of operations, making it easier for operations personnel to incorporate energy costs into production planning decisions
- Centralizes energy and production data in a single software platform
- Does not require on-site information technology (IT) support
- Gives you access to more demand response markets globally, creating revenue to fund your energy program
- Provides energy information and visualization across an enterprise, not just in an organizational silo
- Leverages best practices and energy expertise across different customers and industries

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**Get the Data You Need to Manage Your Plant**

EnerNOC’s technology platform centralizes data from your many enterprise systems to let you make more informed operating decisions.

Monitor electricity and natural gas to account for cost drivers throughout the plant:

- Main utility meter
- Primary plant systems
- Process/production line usage

Incorporate additional data to track key performance indicators:

- Utility tariff and billing data
- Production data
- Weather data

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For more information, visit enernoc.com or email info@enernoc.com.

Catch up on the latest best practices in energy management on our EnergySMART blog, energysmart.enernoc.com.