Nsight
Product
Guide

ndustrial

Use Less Energy
and Generate
More Production

Turning Energy Efficiency into Production Efficiency

We understand the unique industrial challenges you face — increasing output, reducing production costs, and meeting aggressive carbon initiatives — all while maintaining high quality standards, managing rising energy costs, and operating a mix of newer and legacy technologies. It's because of these unique challenges that we created Nsight™ — the only production-first industrial Energy Intelligence software solution.
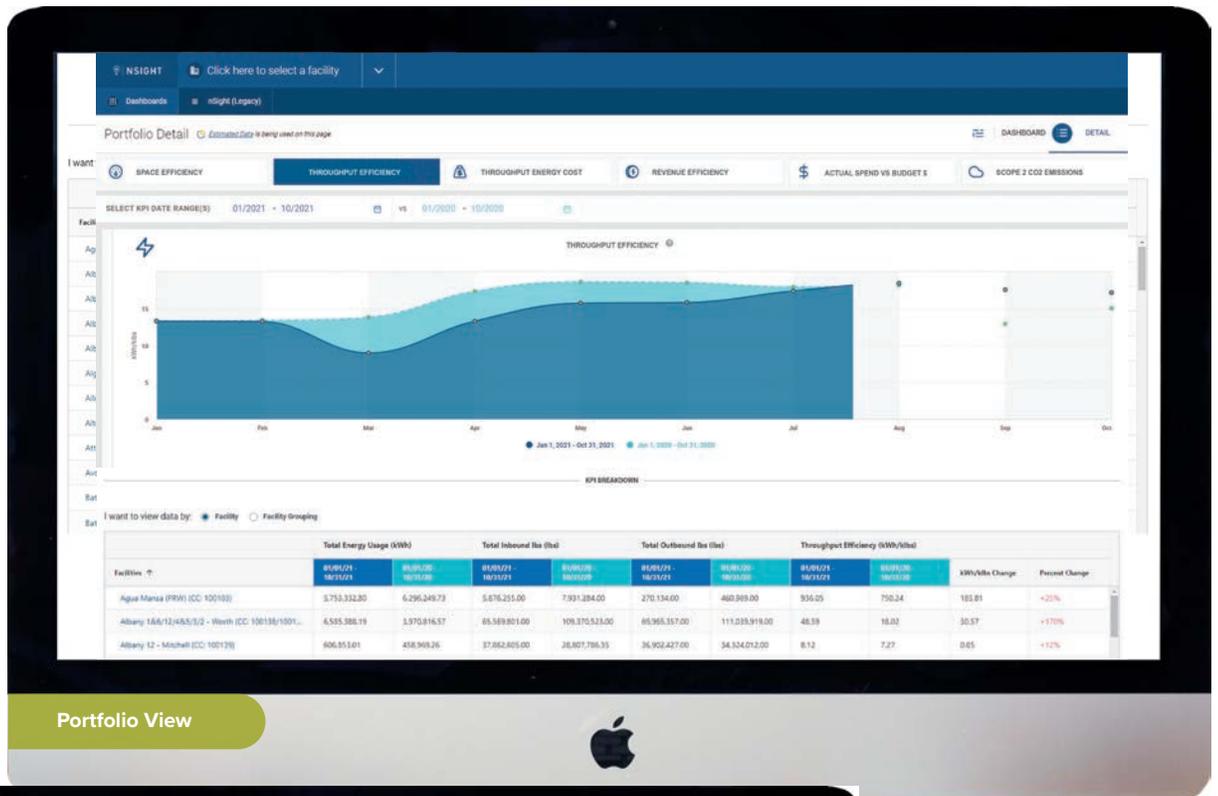
Nsight enables next-generation Energy Intensity monitoring and management across not only your facility, but also your production operations. Our Energy Intensity software is focused on measuring and improving the amount of energy you use to produce a single unit of output. Our IoT and software-based approach delivers important performance metrics through easy-to-use dashboards and reports.

▶ We fuse production and energy data together, integrating data across your warehouse management systems, sensors and meters, ERP systems, and equipment and machines.

▶ Your production data and facility KPIs are at the core of our Nsight solution to help you improve performance.

▶ Your production-normalized Energy Intensity helps you optimize your production and energy efficiency.
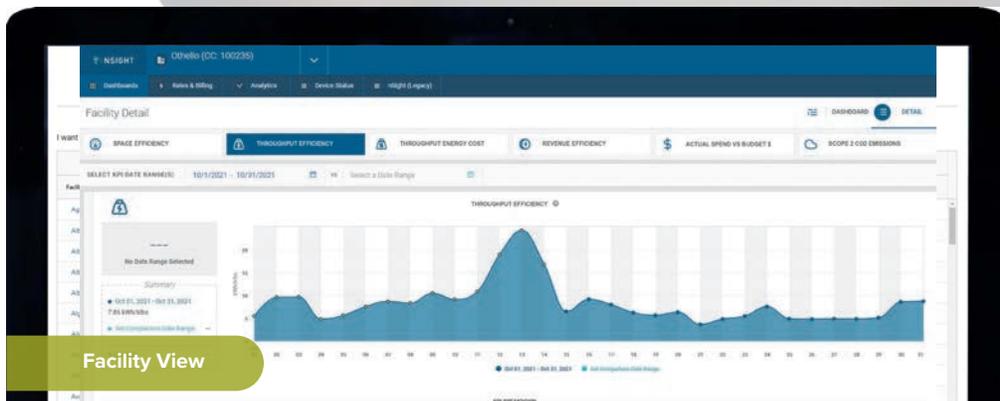
Improve Production Efficiency

Reducing or adjusting energy use requires a comprehensive understanding of your facilities' operational and energy patterns. Nsight, together with our team of energy experts, will help you understand which assets are performing well and where you can improve production processes. Plus, all your essential energy data is presented in two easy-to-use dashboards...across one facility or all your facilities.
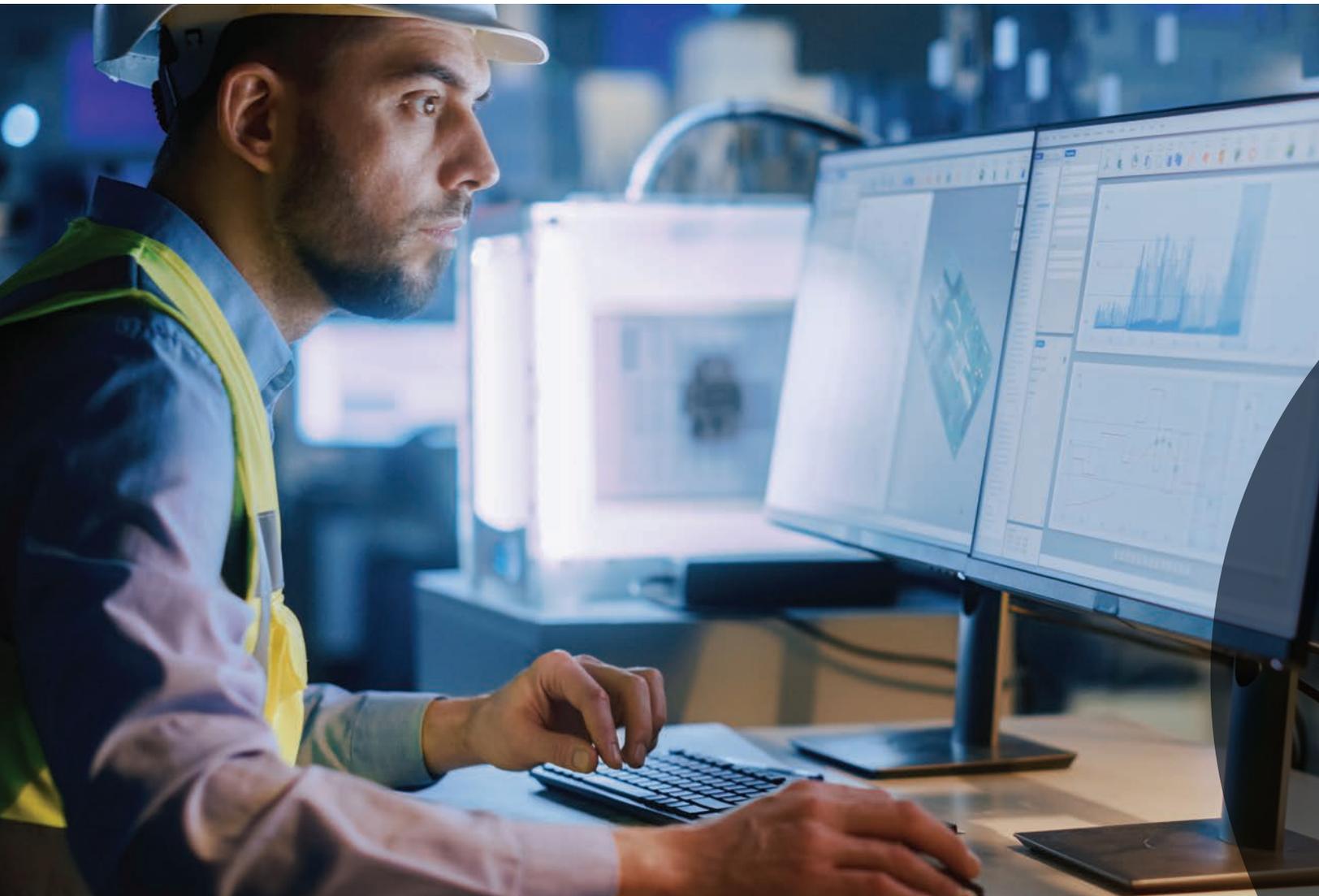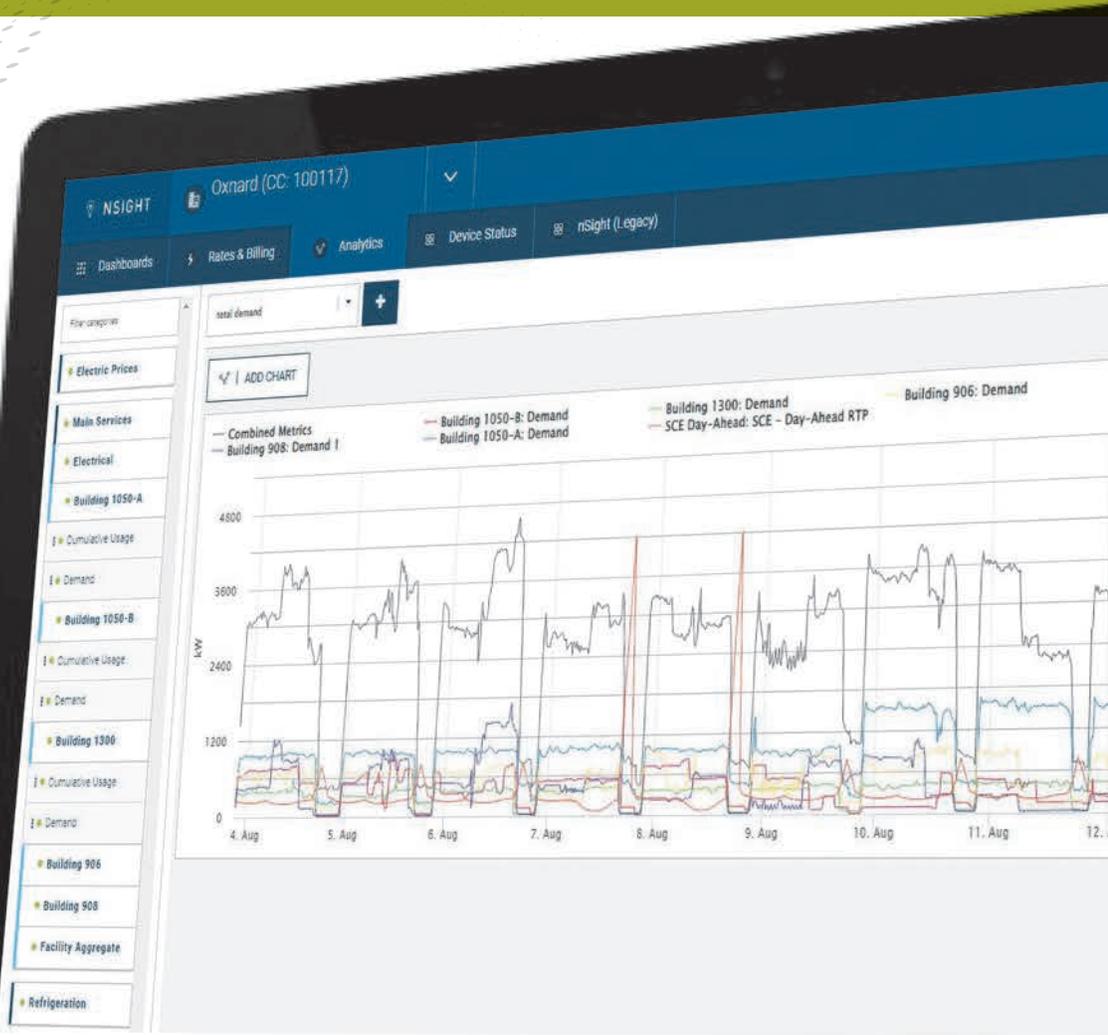

Portfolio View

Facility View

Nsight Features

▶ Real-Time Throughput Efficiency: tracks how efficiently your facility is using energy compared to production.

▶ Production Optimization Recommendations: suggests how to improve production while reducing Energy Intensity levels.

▶ Automated Device Alerts: delivers automated notifications for any system or device that's not performing optimally.

▶ IoT Device Analytics: enables users to identify which devices or equipment may be causing energy spikes.

NSIGHT   Oxnard (CC: 100117)

Dashboards   Rates & Billing   Analytics   Device Status   nSight (Legacy)

total demand

ADD CHART

— Combined Metrics — Building 1050-B: Demand — Building 1300: Demand — Building 906: Demand
— Building 908: Demand 1 — Building 1050-A: Demand — SCE Day-Ahead: SCE – Day-Ahead RTP

Filter categories

* Electric Prices
* Main Services
* Electrical
* Building 1050-A
  * Cumulative Usage
  * Demand
* Building 1050-B
  * Cumulative Usage
  * Demand
* Building 1300
  * Cumulative Usage
  * Demand
* Building 906
* Building 908
* Facility Aggregate
* Refrigeration

kW: 4800, 3600, 2400, 1200, 0

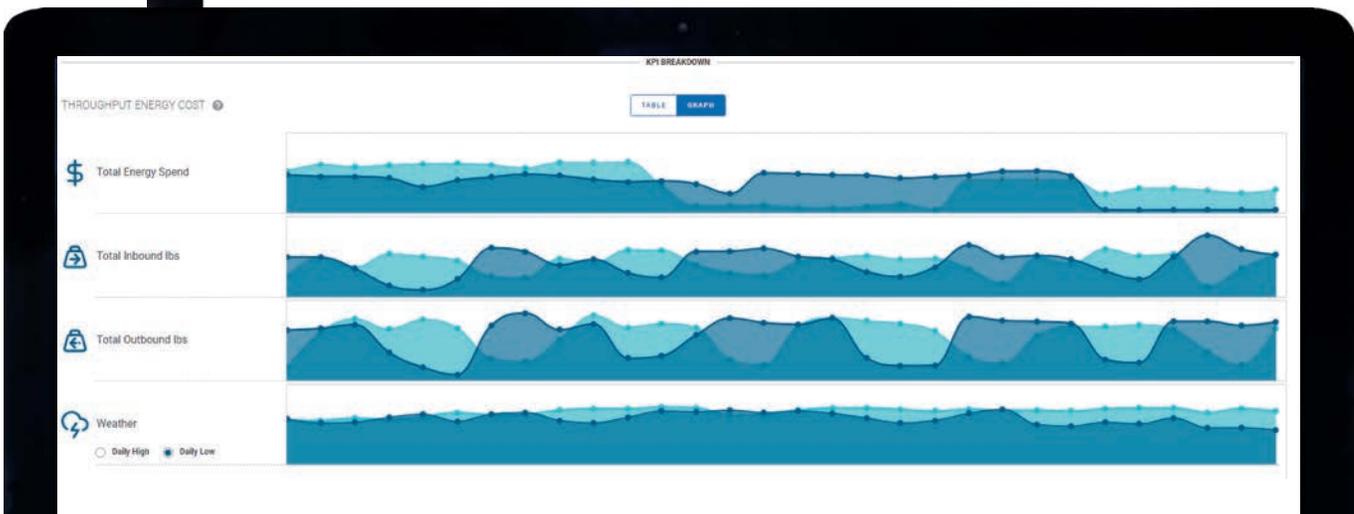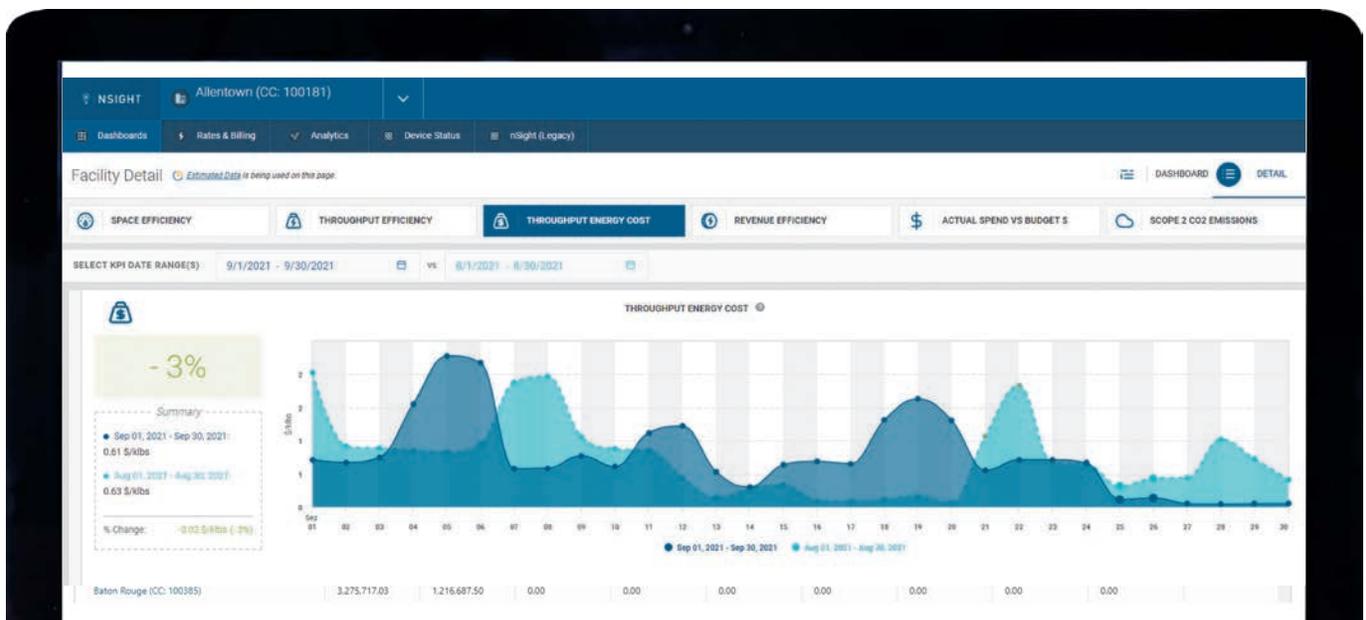4. Aug   5. Aug   6. Aug   7. Aug   8. Aug   9. Aug   10. Aug   11. Aug   12.

Benefits

▶ Quickly identify how changes in production impact energy and throughput.

▶ Improve individual and site-wide analysis of your production throughput and energy usage via Nsight dashboards.

▶ Receive real-time data for instant decision-making, analysis, and adjustments to your manufacturing process.

▶ Leverage real-time alerts to keep your hardware up and running.
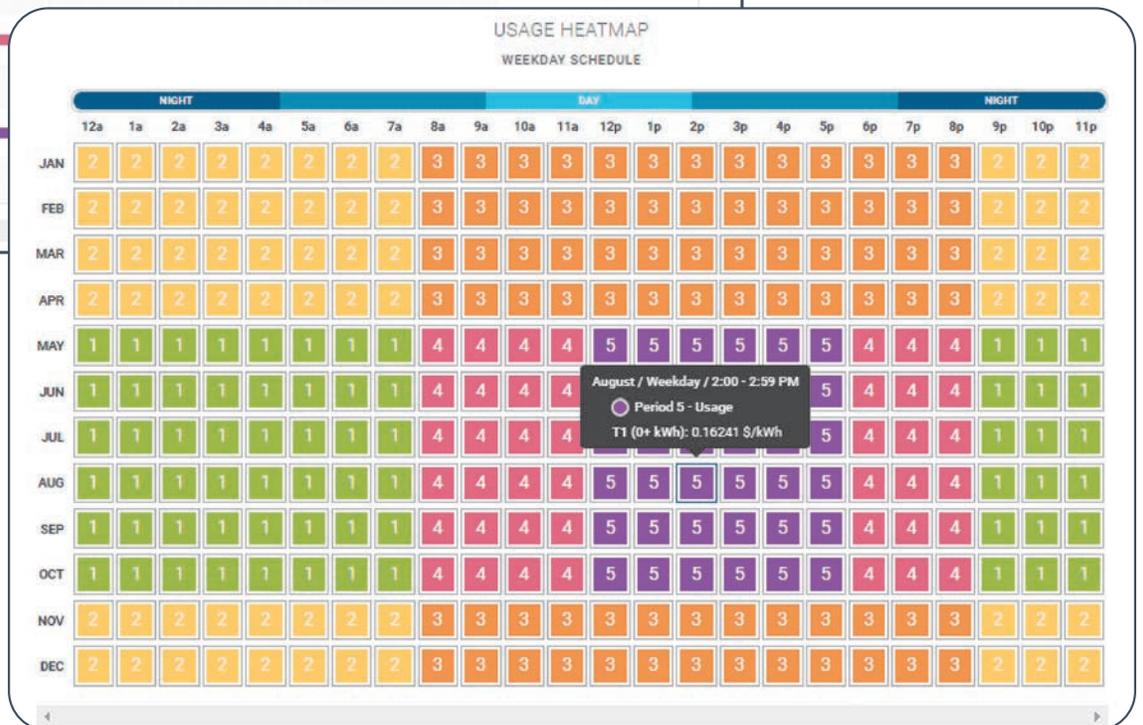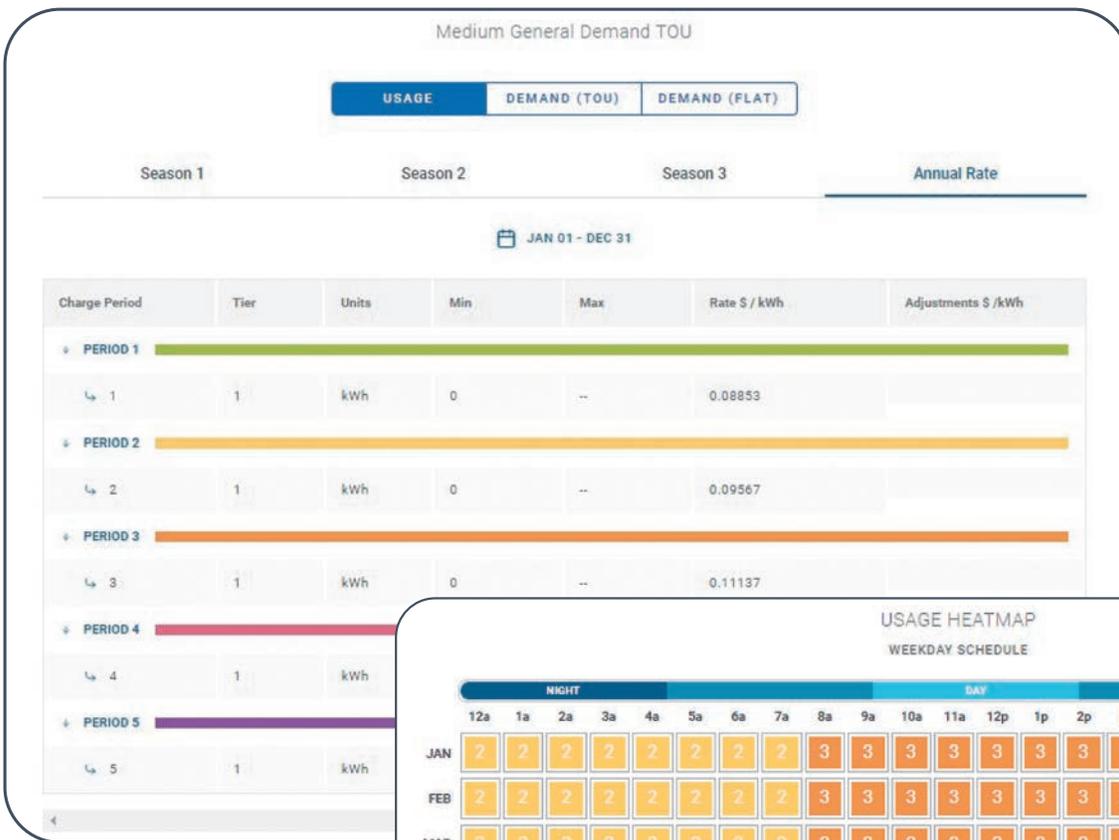
Control Energy Costs

Fluctuating rate tariffs, facilities spread across multiple regions, and complex utility contracts can make managing energy costs challenging. Reliable energy tracking through our Nsight software gives your company the opportunity to pinpoint and correct inefficient operations, identify expensive energy periods, and more effectively budget for one of your most expensive line items.

Nsight Features

▶ Throughput Energy Cost Monitoring and Management: validates how effectively your facility is spending money on energy compared to throughput.

- ▶ Space Efficiency Monitoring and Management: tracks how efficiently your building is using energy.

- ▶ Advanced Rate Tariff Engine: keeps you apprised of how your facility is charged for electricity, enabling better load management now and in the future.

- ▶ Real-Time Demand Comparison Chart: delivers up-to-date demand readings and enables smarter usage and control of your energy costs.

Benefits

▶ Lower your energy costs by quickly identifying expensive energy periods, how much energy is being consumed, and how much you're paying for your energy.

▶ Leverage a detailed view of your facility or portfolio KPIs to identify where you may be over-or underperforming.

▶ Receive actionable energy intelligence from the site, down to the device level, to help you manage energy consumption and reduce energy spend.

▶ Set up and receive alerts via Nsight that quickly show high usage, where you're using the most energy, and which tier you are in.

up to

50%

of industrial energy is wasted

source: energy.gov

Boost Margins

In a world of highly variable energy costs and risks, we know that harmonization between energy and production is key to intelligent decisions, cost savings, and automation. To truly drive energy efficiency, decisions need to be made immediately with real-time data.

Nsight Features

▶ Revenue Efficiency Monitoring and Management: tracks and reports how effectively your facility is using energy for production.

▶ Project Performance Tracking: provides visibility into project savings across one or many facilities.

▶ Energy Budget Management: delivers data on actual energy spend vs. budgeted energy spend.

Benefits

▶ Drive business growth through real-time Energy Intensity KPIs to uncover correlations between energy usage and spend per unit of production.

▶ Receive insights and understanding of how projects impact budget and energy usage.

▶ Gain visibility into significant energy users through sub-metering, giving you real-time data on what's consuming the most energy and allowing you to take preventative action quickly.

▶ Leverage legacy systems without the need to invest in new technology.

▶ Receive immediate value with minimal data from utility costs and trends, and continue to add data and insights as additional smart sensors, meters, and hardware are installed.

Whether your organization has made a Net Zero commitment, or your customers and partners are asking for carbon footprint data, Nsight gives you the most granular carbon and energy intensity calculations. From the customers in your warehouse and their product lines, down to a specific SKU, Nsight provides the best reporting by energy production source.

Nsight's Carbon Reporting Provides:

▶ Carbon intensity tracking by state and ZIP codes — identifying correlations between space and emissions, and mapping to specific utility grids.

▶ CO2 reduction year-over-year, based on kWh consumption.

▶ Carbon credit reporting, based on CO2 reduction.

▶ Avoided Energy Intensity, as measured by energy per-unit of production.

An Outcome-Based Approach

Nsight is helping facilities of all sizes across multiple markets to unlock the potential of optimization algorithms, projects, and programs through our next-generation Energy Intensity solution. Our algorithms keep facilities running smoothly by leveraging the true value of your energy and production data. Nsight will help you accelerate new efficiencies at scale. We deliver what's truly important — and extremely difficult to achieve — leveraging insights learned to actually optimize production and impact your bottom line.

To learn how you can use less energy AND generate more production, contact us: info@ndustrial.io 919-864-2264

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