



Food Manufacturer Tops 80% In Energy Savings With Smarter IoT Solutions

PROJECT OVERVIEW

Rich's Foods was looking for a practical way to cut their ever-increasing energy costs while also tracking system data. Rolled out in two phases, this lighting system retrofit project, upgraded their existing lighting system to high-efficiency LED lighting and Daintree Enterprise IoT controls. The combination of cutting-edge LEDs with robust wireless controls offered Rich's Foods a comprehensive Internet of Things (IoT) solution to their energy management needs.

THE PROBLEM

Rich's Foods needed a practical solution to reduce their energy bills at their Union City, CA facility. They also were not able to effectively track the consumption of energy and other resources in real-time. In essence, much of their resource management tracking was reactive, typically relying on utility bills that came in thirty days or more after the usage occurred.



Reduce Energy Costs



Track Energy Consumption



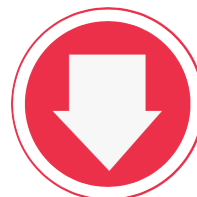
Improve Light Quality

THE SOLUTION

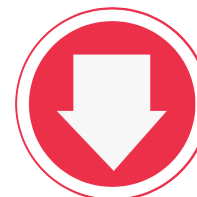
Partnering with Graybar – the country's leading wholesale distributor of electrical products – SBT Alliance and Graybar engineers created a custom retrofit project for Rich's Foods that tackled the first of their challenges: high energy usage. The project resulted in the installation of high-efficiency LED retrofit board and driver kits to keep material costs low throughout their 150,000 square foot factory floor as well as in offices and hallways.

For advanced controllability, Graybar and SBT Alliance opted for the Daintree Enterprise control system, since versatility and the ability to monitor energy savings were essential to Rich's Foods.

By leveraging the facility's lighting as the backbone for the IoT controls, SBT Alliance engineers were able to provide Rich's Foods with a digital infrastructure that provides real-time, granular usage data of their energy systems. Moreover, this new digital backbone provides Rich's Foods with the foundation to further extend data-gathering and system optimization to drive further savings and facility insights.



50% kWh Reduction with SMARTER LEDs



80% kWh Reduction with SMARTER CONTROLS



50+% Energy Savings with SMARTER SUPPORT

THE RESULTS

After collecting data during the first two weeks after installation, SBT Alliance system engineers toured the plant with Graybar and Rich's Foods to gather additional on-site analytics. After analyzing the results of the plant tour, SBT Alliance system engineers were able to adjust the lighting and control strategies significantly to deliver further savings.

By week one, following the installation, Rich's Foods saw an average savings of 30 percent as compared to their previous lighting system. While impressive, and amounting to thousands of dollars in energy savings, SBT Alliance system engineers wanted to push the envelope to help

Rich's Foods drive more savings. Following the on-site walkthrough and system optimizations, SBT Alliance system engineers were able to drive an additional 25 percent in energy savings, resulting in thousands of extra dollars saved per month.

Overall, within its first month of operation, Rich's Foods saved \$4,263, that'll mean over \$50,000 a year in energy savings. And that's just from smarter lighting. Following the LED lighting retrofit, Rich's Foods saw a 50% reduction in kilowatt-hours (kWh), and once the Daintree Enterprise system was running, that kWh reduction shot up to 80%!

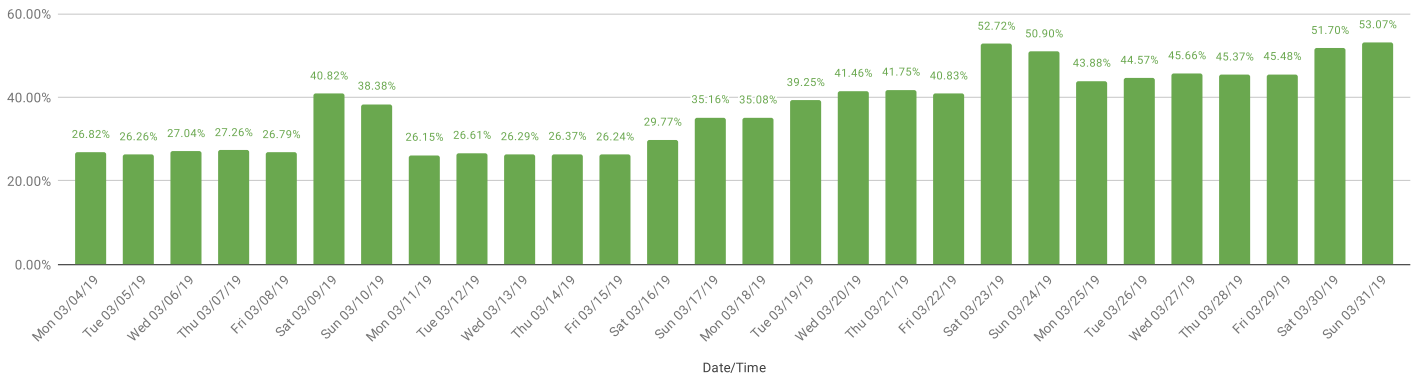


Energy Usage and Saving Report

Report Time: 04/02/2019 01:54 PM

Data from 03/04/2019 12:00 AM to 03/31/2019 11:59 PM

LIGHT SAVINGS (%)



By week one post-installation, the client saw roughly 30% lighting savings. After SBT Alliance engineers optimized the system, the client saw an increase of energy savings in an additional 25%.

DEPLOYING SMARTER IOT

Rich's Foods obtained an IoT-driven lighting solution. Through that discovery, SBT found another part of Rich's Foods process that could be improved: their water sanitation system.

Phase three of the partnership between Rich's Food and SBT takes the Internet of Things to the next level and tackles the client's water sanitation process to ensure factory equipment stays clean, safe, and efficient.

SBT Alliance solution engineers are currently working on custom data collection and IoT sensors that will enable Rich's Foods to collect critical water system data. Each year Rich's Foods spends hundreds of thousands of dollars on water bills for their sanitation stations. This new SBT-engineered solution will help Rich's Foods better manage this resource while also giving them the critical documentation required to not only meet, but exceed, all federal, state, and local regulations.



HEADQUARTERS

6700 E. Pacific Coast Highway
Suite 235
Long Beach, CA 90803

REGIONAL OFFICES

Atlanta, GA Nashville, TN
Boston, MA Scranton, PA
Cleveland, OH

MFG / PRODUCTION

Sacramento, CA
Tijuana, MX