

Major Snack Manufacturer

National

PROJECT SCOPE

Industrial Control System



Commissioning and RCx



VFD



Investment: \$8.45 Million

Simple Payback: 3.6 Years

Electric Savings: 32%

Project Duration: 9-Year
Relationship Starting in 2016

Locations: 14 Plants; 10 States

Project Highlights:

- Scalable and Repeatable Solution
- Deployment of Micro800™ PLCs
- Variable Frequency Drives (VFDs)

The collaboration between Veregy, Rockwell Automation, and ISN has set a new standard for HVAC management in the snack manufacturing industry. By leveraging advanced PLCs and VFDs, along with innovative wireless technology, the project not only achieved significant energy savings but also enhanced the overall efficiency and reliability of manufacturing operations.

PROJECT OVERVIEW

Veregy, in collaboration with Rockwell Automation and the Industrial Solutions Network (ISN), embarked on a groundbreaking project to modernize HVAC management across 14 snack manufacturing plants. This scalable and repeatable solution aimed to replace outdated controls with advanced Programmable Logic Controllers (PLCs) and to introduce networked units through wireless technology, addressing the critical need for energy efficiency and system reliability in the food production industry.

The project team began by comprehensively assessing the existing HVAC systems at each location. This allowed for a tailored approach to the upgrades, ensuring each plant received the specific improvements needed to maximize efficiency and reliability. The introduction of Micro800™ PLCs was pivotal, as these devices provided enhanced control and monitoring capabilities, enabling more precise management of environmental conditions within the plants.

Variable Frequency Drives (VFDs) were also installed to adjust motor speeds and optimize power consumption based on real-time demand. This technology contributed to significant energy savings and extended the equipment's life by reducing wear and tear.

Wireless technology facilitated the integration of these new systems, allowing for real-time data collection and remote monitoring. This capability proved essential for coordinating operations across geographically dispersed locations and for implementing uniform standards in HVAC management.