

Retail



Background:

A large retail chain with hundreds of locations across the country was facing inconsistent energy bills and inconsistent store temperatures. They sought to implement an HVAC automation system to optimize energy efficiency, reduce costs, and improve customer comfort/experience



Solution:

After evaluating multiple IoT solutions and PoCs at controlled and limited stores, they decided to give initial 100 stores in Phase 1 to **AgileConnects**.

- Installation of Agile Gateway, Endpoints, Universal Agile Controllers, Universal Agile Thermostats and energy meters in each store to monitor and control energy, temperature, humidity, and air quality
- Configuration and commissioning AgileWorks IoT Platform to remotely monitor and control HVAC systems, temperature sensors and energy meters across all locations
- AgileWorks architecture of industry standard interfaces and data driven approach made possible to onboard all makes and configurations of HVAC system of different manufacturers, almost 15 different configurations
- Scheduling and automation of HVAC operations based on store hours, rush hours, and outdoor weather conditions
- Real-time energy usage monitoring and analytics to identify areas of improvement.



Results and benefits:

- Energy efficiency and cost savings: 20% reduction in HVAC energy consumption across all locations, Resulting in more than 10% overall energy savings
- Improved customer comfort and satisfaction
- Increased operational efficiency: Complete visibility into distributed asset health and Enhanced visibility and control of energy usage for facility managers.
- AgileWorks could identify non-optimum performing HVAC assets, filter block issues and raise alerts for maintenance
- Fully autonomous operations
- Scalability and flexibility for future growth
- Scalability to add more equipment on AgileWorks: Deep Freezers, Chillers, Diesel Generators etc
- Data-driven decision making for energy management and equipment maintenance



This case study demonstrates the promise delivered by AgileWorks IoT platform in retail chains to drive energy efficiency, cost savings, and improved customer satisfaction.