

Quick Services Restaurant

Background:

One of fasted growing Quick Service Restaurant chain comprising more than 500 small format outlets for eat-in & delivery, stand-alone and in mall food courts. Different Kitchen equipment & mix of type and makes of HVAC systems. Small facility management team looking after 100s of outlets.

Mandate by Corporate Management for facility management team:

- To reduce energy consumption by atleast 8% across all outlets in India
- Monitor energy consumption patterns across kitchen, HVAC, lighting & other load types
- To gain visibility into critical parameters of walk-in chillers/freezers performance & temperatures
- Plug leakages & wastage to reduce operational costs

Solution:



After evaluating multiple IoT solutions and PoCs at controlled and limited branches, they decided to implement **AgileWorks** at initial 100 branches.

- In-Premise AgileWise Gateway with AI, ML and edge computing power
- 3G/4G connectivity to AgileCentrum Cloud Application
- End to end WiFi deployment
- AgileSwitches to schedule different load types: Kitchen equipment, Freezers, HVAC & Lighting
- Agile Ducted HVAC Controllers &ASens transform standalone HVAC & splits/cassettes ACs to connected.
- Dynamic Agile SmartSchedules implemented for comfort & energy optimization
- Agile Sensors to monitor floor temperature & humidity
- Outlet lighting & Signage scheduling
- 5 Energy Meters/ per outlet to track different equipment types energy consumption
- Mobile application to outlet manager for overrides and alerts
- Centralized dashboard for equipment malfunction and energy alerts

Results and benefits:



- Energy efficiency and cost savings: 8% reduction overall energy consumption across all locations, Resulting in Return on Investment of lea than 10 months
- 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
- Identify assets that are operated beyond work hours
- smart building technologies



This case study demonstrates the potential of AgileWorks in QSR to drive energy efficiency, cost savings, and improved comfort, while also enhancing the overall customer experience and sustainability reputation.