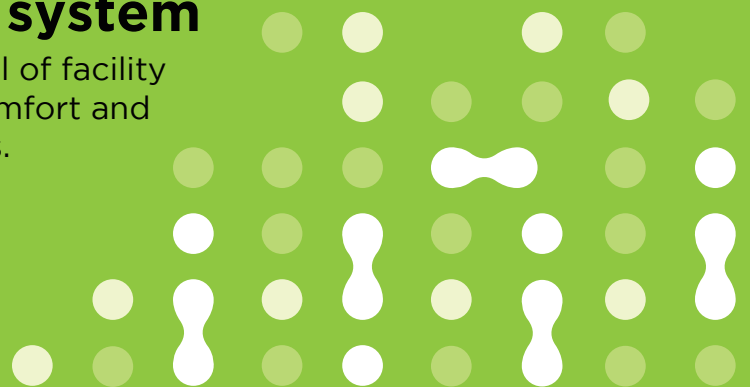
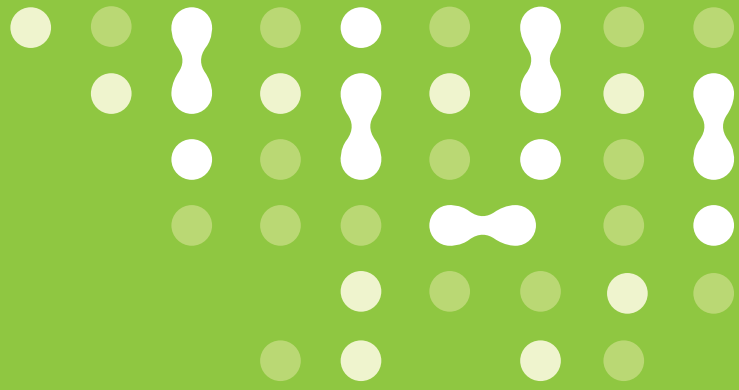




Connect, control and optimize your small format retail stores with the CORTIXedge™ system

Gain unprecedented visibility and control of facility equipment while managing occupant comfort and saving on energy and maintenance costs.

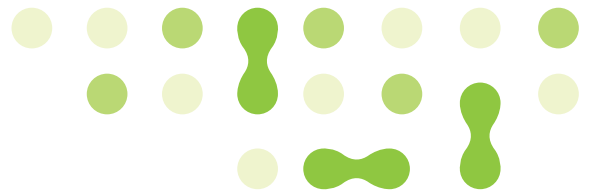




In today's digital age, the ability to rapidly connect and harness data from a building is imperative to drive sustained profitability. EcoEnergy Insights has developed the CORTIXedge™ system, which allows retailers to efficiently manage operations and make their retail store network ready to take advantage of new technologies.

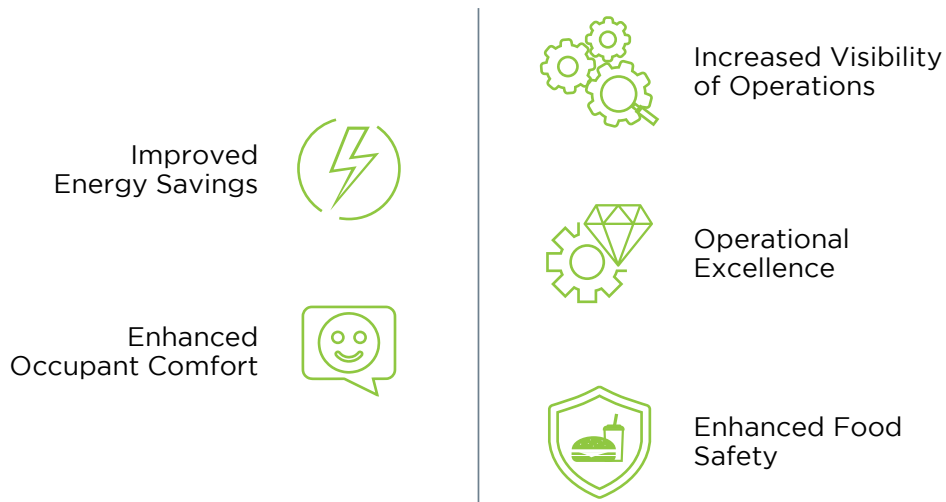
The CORTIXedge system is a plug-and-play solution that enables retail stores to go digital easily. The CORTIXedge system:

- Easily connects to store equipment**
- Effectively controls equipment operations**
- Rapidly enables bi-directional data exchange with the cloud**
- Provides insights to improve thermal compliance and energy efficiency through data analytics**
- Provide services to make your store operations data driven**

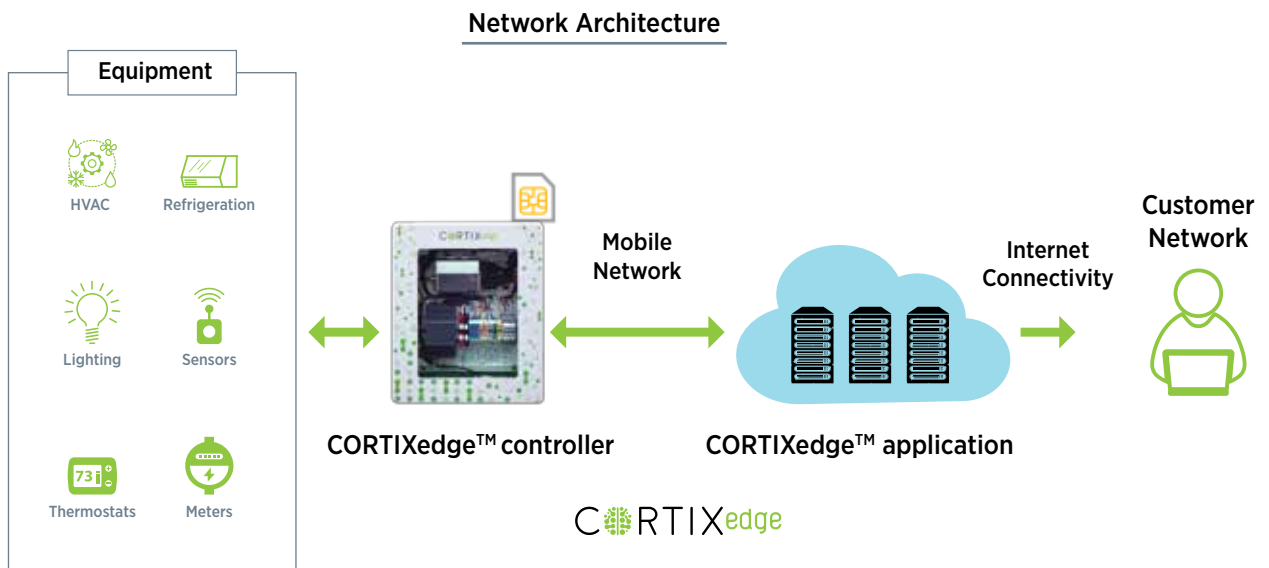


Retailers can now manage their stores proactively in order to provide better experiences for their customers without dealing with the complexity of technology, connectivity, data security, the diversity of equipment in their premises and, in most cases, connecting to multiple clouds. They will not have to deal with pushing policies and schedules and will have a team that can carry out remote resolutions.

Our services with the **CORTIXedge™** system enables retailers to achieve the following:



With a wide range of functionalities, the CORTIXedge system provides retailers with the ability to control and manage connected store equipment seamlessly.



CORTIXedge™ controller

The CORTIXedge controller is an intelligent and robust IoT device which can easily integrate with and control underlying edge devices like HVAC, lighting systems, refrigeration thermostats, meters and sensors. This easy to install device is supplied with all required instrumentation such as meters, sensors, contactors and power supply.



Key features:

- Open interface which connects to any MODBUS device
- Secure and efficient data transfer with minimum bandwidth
- Auto selection of telecom carrier with the strongest available signal to enable smart communication
- Preloaded with numerous intelligent control libraries
- High availability with multiple recovery options
- Cloud enabled data collection

PARAMETER	SPECIFICATIONS
Operating Voltage	DC 4.75 Volts to 32 Volts
Processor	ARM Cortex A7 Core with 1.3 GHz
Memory	128 MB RAM, 256 MB Flash
Inputs/Outputs	3 Configurable I/O's (+ I/O expansion)
SIM Interface	2FF
Supported Networks	4G LTE Cat-M1/NB1 (Bands: B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28) 2G EDGE, GSM, GPRS (Bands: 850, 900, 1800, 1900)
Operating Temperature	-30°C to +75°C
Cellular Antenna Type	SMA (Sub Miniature Version A)
USB	USB V2.0 Micro-B Connector
Location Services	A-GPS, GLONASS, GALILEO
UART	Configurable RS232/RS485 Sub-D9
Regulatory Approvals	FCC/IC, CE & RoHs, REACH, RCM, Safety IEC60950-1, UL Listed, GCF, PTCRB
LEDs	1 Signal LED, 1 User LED
Application Framework	Legato® Open Source
Linux Distribution	Yocto, Long-term Supported Linux Kernel
Industrial Protocol	ModBus RTU/IP
Certification	UL

CORTIXedge™ application

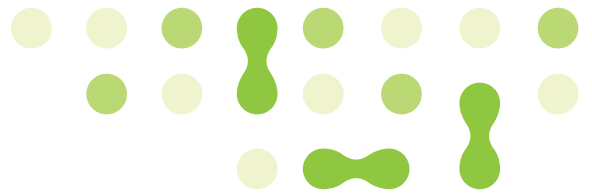
The CORTIXedge application is an IoT platform that provides users with visibility into operations of various store equipment through a suite of modules. It provides insights that can be acted upon to manage health of equipment, improve occupant comfort and manage energy efficiency of the facilities.



Key features of the application:

- Service Window® framework based operational insights *
- Ability to drill down to the site on the basis of geography or as per business hierarchy
- Role based access control that allows users to see relevant details
- Reports are available on energy consumption, temperature compliance and can be easily downloaded by the user

*Our patented framework enables us to identify the relationship between energy consumption patterns (measured in kWh) and operations patterns, measured by site usage pattern (e.g. customer usage vs employee only usage hours), guest count or footfalls, etc.



Command Center

Our Command Center is a team of skilled analysts, data scientists and domain experts who manage requisite site interventions, define action plans and ensure their comprehensive completion in a timely manner. This centralized operations center enables retailers to change their current mode of operations to a data driven one.



Key services offered:

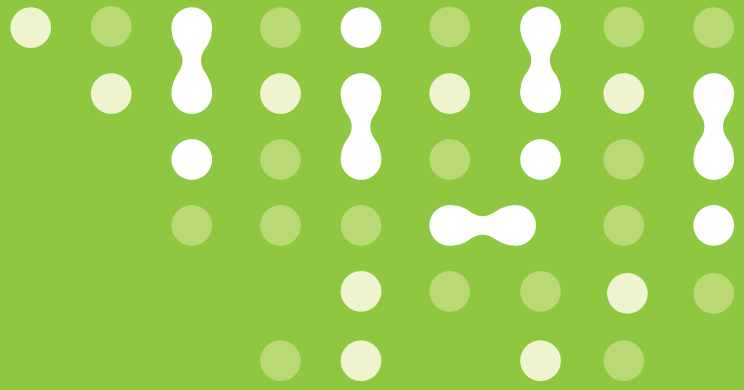
- Remote commissioning
- 24/7 service desk for remote resolutions
- Intelligent dispatches to pro-actively resolve equipment issues that require technician visits
- Carry out bulk or individual site level changes such as set point and policy correction modifications.
- Verify effectiveness of any maintenance or repair at a site to avoid store calls and dispatches
- Problem management desk to identify and reduce repeat issues
- Measurement and verification of savings

EcoEnergy Insights provides a turnkey solution for supply, installation and remote commissioning of the CORTIXedge system. Our centralized service desk takes in all the requests for making configuration changes, such as schedule updates and updating store temperature policies.

The CORTIXedge system has been designed for enterprises with a network of small-format retail stores, convenience stores and quick service restaurants. These enterprises can look to achieve elevated levels of operations and standards of compliance with the CORTIXedge system.



Write to us at info.ecoenergy@carrier.com and gain an edge on the way your retail facility equipment are managed.



About EcoEnergy Insights

EcoEnergy Insights is a leading provider of AI and IoT-enabled solutions to digitally transform building and equipment operations. Their CORTIX™ platform collects data from multiple sources, analyzes it, acts on defined deviations autonomously and offers predictive actionable insights. The platform, combined with expert human analytics, has been delivering award-winning outcomes in comfort, maintenance and energy efficiency across multiple industries such as retail, hospitality and banking. EcoEnergy Insights is a part of Carrier Global Corporation, a leading provider of innovative HVAC, refrigeration, fire, security and building automation technologies. For more information on EcoEnergy Insights and the CORTIX™ platform, visit www.ecoenergyinsights.com and www.cortix.ai.

