

SUSTAINABILITY

A leading mega-retailer brings energy savings to market

Carrefour — Cairo, Egypt

How EcoStruxure™ Power brought visibility, reliability, and energy savings to 19 supermarkets



EcoStruxure Facility Advisor is part of the Apps, Analytics, and Services portfolio of the Schneider Electric IoT-enabled architecture: EcoStruxure Power. Facility Advisor delivers insights into energy use and asset availability across 19 of Carrefour Egypt's stores.

Competing in a crowded marketplace

In Egypt, a place world-renowned for its many bazaars and outdoor marketplaces, competition in the retail market is high. In this environment, leading mega-retailer Carrefour Egypt has found a strategy to compete, and it centers on one thing: customer satisfaction. Carrefour pursues this strategy by constantly finding ways to improve quality, choice, and prices.

Last summer, Majid Al Futtaim Retail operated 36 Carrefour hypermarkets and supermarkets throughout the country. Today, that number has increased to 40 stores. As Majid Al Futtaim Retail's country head, Jean-Luc Graziato is on a mission to deliver customer satisfaction in a different way: sustainable business practices. Graziato recently implemented a project to reduce power consumption and ensure uptime in about half of all Carrefour stores. His key goals included:

- Measure energy consumption across stores to identify high- and low-performing stores
- Use insights from energy dashboards and performance reports to continually optimize power usage
- Ensure protection against downtime threats, such as equipment malfunctions or power outages, via timely notifications
- Maximize uptime for power, lighting, ovens, refrigerators, and other business-critical assets

To help Graziato achieve these goals, Schneider experts proposed a digital solution that could monitor individual devices and offer expert guidance on power use optimization. The solution Graziato ultimately chose was EcoStruxure Facility Advisor from Schneider Electric.

Goal

Gain insight into and optimize energy use across 19 Carrefour Egypt stores in a way that reduces OpEx, enhances uptime, and hits sustainability targets.

Story

Jean-Luc Graziato, country head for Carrefour Egypt at Majid Al Futtaim Retail, was seeking ways to reduce the company's carbon footprint. Schneider worked alongside Graziato's team to custom-implement an energy management solution, affording visibility and insights into each store's power consumption.

Solution

The EcoStruxure Facility Advisor suite of services and analytics enabled Graziato to monitor his energy use and asset availability around the clock, unlocking energy-saving and uptime-boosting performance gains.

Results

- Energy savings of 7%, a substantial portion of their OpEx
- Project implemented in 16 weeks across 19 stores
- On track to secure a 100% ROI in under two years
- Plans for deploying the solution across 21 more stores

Working together toward efficiency

Graziato chose to work with Schneider Electric because its expertise in energy management aligned well with his goals for Carrefour. Schneider experts collaborated alongside Graziato's team to adapt Facility Advisor solutions to the specific configurations of 19 stores. Schneider completed the installation and configuration in 16 weeks.

The result is a solution that is on track to achieve a full ROI in under two years. But the relationship didn't end there. Schneider engineers and Carrefour's team remain partners in innovation, continually working together to enhance the technology, strengthen the partnership, and uncover new ways to save energy.

The Schneider engineering team analyzes data from Facility Advisor dashboards to provide two annual performance reports to Carrefour. These reports serve as action plans for optimizing energy use. They also allow Graziato to compare one store's power consumption against another, thus

empowering him to create performance benchmarks. "Apart from the environmental benefits, the cost effectiveness of implementing Facility Advisor also allows us to redistribute savings to enhance various aspects of our business, making our offering even more compelling for customers," says Graziato.

Key insights creating business value

Graziato's team uses the Facility Advisor suite of services to centrally manage each store's assets and power consumption from a single computer or tablet. Facility Advisor performs analytics on data gathered from cloud-connected meters in each store, providing insights into current power consumption and notifying managers of any anomalies or downtime threats.

How does this work on a day-to-day basis? Graziato and his team log in to a dedicated web portal to check on daily events and consumption levels. In addition, the team works to implement action plans recommended by Schneider energy management experts. When the system



"This project with Schneider is aligned with Majid Al Futtaim's wider strategy to become net positive by reducing its energy consumption and carbon emissions."

— Jean-Luc Graziato,
Country Head for
Carrefour Egypt at Majid
Al Futtaim Retail



detects any abnormalities, it notifies the team. “It allows [our team] to intervene quickly,” says Graziato.

By bringing the right people, technology, and data into alignment under a single dashboard, Schneider and are able to make continual improvements in energy use, operational efficiency, and uptime.

Looking forward to bigger savings

Jean-Luc Graziato understands customer satisfaction. As a satisfied customer of Schneider Electric, he’s planning to expand the Facility Advisor suite of services to 40 stores total. Given that Schneider was able to rapidly deploy Facility Advisor, Graziato feels confident in expanding the technology to every one of his stores in Egypt.

Carrefour is also working toward compliance with ISO 50001 guidelines, a demonstration of their successful energy management system. Facility Advisor, with its ability to monitor and optimize energy use across Carrefour’s stores, is a core facet of that effort.

For Graziato, it all comes back to Carrefour’s core mission: customer satisfaction. With a reliable electrical system, cooling, lighting, and refrigeration, his hypermarkets and supermarkets remain dependable places to shop. And with its substantial energy savings, the company can pass on savings

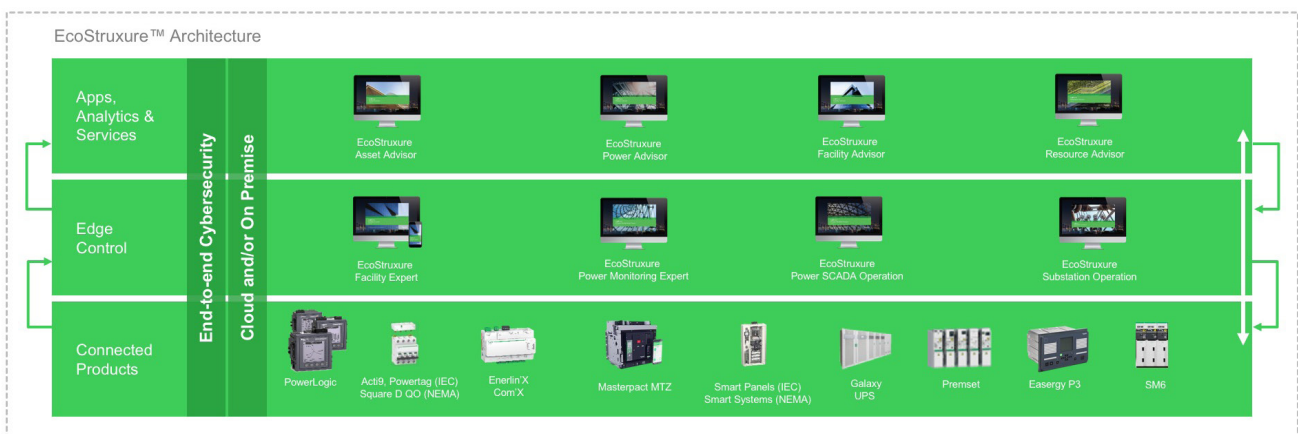


to its customers while limiting carbon emissions. In this way, Carrefour, competing in a crowded Egyptian marketplace, has found a way to offer its customers better value.

7%

energy savings, a substantial portion of their OpEx

EcoStruxure™ Power
Innovation At Every Level



EcoStruxure™

Innovation At Every Level

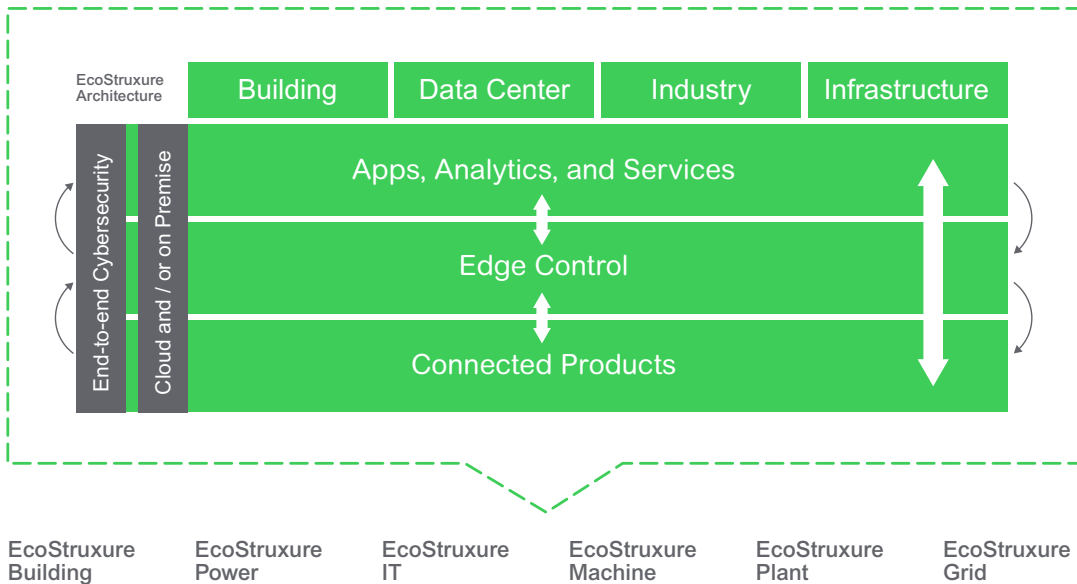
IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is the Schneider Electric open, interoperable, IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers.

EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level including Connected Products, Edge Control, and Apps, Analytics, and Services. EcoStruxure has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

One EcoStruxure architecture, serving 4 End Markets with 6 Domains of Expertise



Connected Products

The Internet of Things starts with the best things. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision making throughout operations.

Edge Control

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

Apps, Analytics, and Services

Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid environments. EcoStruxure enables a breadth of agnostic Applications, Analytics, and Services for seamless enterprise integration.

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Schneider Electric

Boston ONE Campus
800 Federal Street
Andover, MA 01810 USA
Phone: + 1 978 794 0800

www.schneider-electric.com

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