

# A Recipe for Future-ready Restaurants

EcoStruxure™ for Retail

Solution for existing restaurants



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**Schneider**  
Electric

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# Why McDonald's is acting now

The approach we describe in this document helps restaurants achieve the full spectrum of decarbonization's benefits. Decarbonization is not only about limiting greenhouse gas (GHG) emissions and conserving natural resources; it's increasingly just good business.

McDonald's Global Restaurant Building & Equipment Standards include minimum requirements and recommendations on systems such as lighting, refrigeration and the energy efficiency of heating, ventilation, and air conditioning (HVAC) systems, as well as energy management and even the way in which buildings are constructed to optimize solar gain.

The Global Strategic Sourcing Service team selects and recommends vendors to all markets globally to equip restaurants with the right solutions to drive efficiency and accelerate progress towards McDonald's sustainability targets.

## Schneider Electric is a primary recommended Energy Management System (EMS) supplier

The EMS systems should include:

- Conditioned environment set-point control
- Lighting schedule management
- Restaurant level visibility and control options
- Energy metering for electricity and fuel
- Cloud-based connectivity with remote control, data storage, and accessibility

Examples of optional recommended features:

- Optimized restaurant ventilation and kitchen equipment integration
- Water meter integration
- Refrigerant system and temperature monitoring
- Demand response and connectivity to RTU controls
- Alarming, alarm management, and monitoring
- Daylight harvesting & dimming



Creating value for owners and operators

**Decarbonization drives business success for new and existing restaurants:**

- Conserve resources and boost bottom lines
- Make decisions based on data to drive energy efficiency
- Boost staff productivity and engagement
- Ignite innovation and technological progress
- Grow their influence, reputation, brand, and customer loyalty
- Boost building valuation

# Deploy Solutions

Take action with an integrated solution that saves money and energy, while enhancing business continuity and sustainability compliance across the lifecycle of your assets. Ektos is a Schneider Electric systems integrator partner focused on energy management solutions that can help create smart, digital restaurants, and support the journey from disconnected to connected:



## EcoStruxure Building Operation (BMS)

Includes integrated views, monitoring and control of HVAC, lighting, energy & power, fire safety, security & access and workplace management systems.



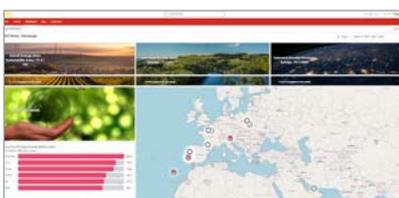
Enhance energy efficiency and business continuity through **Intuitive Dashboards** tailored to McDonald's requirements:

- Multiple user profiles with different access capabilities (e.g., view only for staff & view/write for store manager)
- Monitor and reduce energy consumption through advanced scheduling and control sequences
- Maintain asset performance within desired parameter with smart alarms and event management
- Integrate with security systems to create a single pane of glass across the restaurant
- Available on mobile devices as well as desktops
- Available in local languages

**3 - year warranty for main controller and user interface.**

## Cloud-based Connectivity with Remote Control, Data Storage, and Accessibility

Achieve traceability, efficiency, and resiliency with alarm and condition monitoring, restaurant optimization, and site performance benchmarking



**Multi-site access to 24x7** custom views of all systems and equipment, in a single control center, as well as data analytics to maximize portfolio performance.

- Correlate data across multiple systems to prevent off-hours energy consumption
- See graphical and contextualized data points at the portfolio, site or equipment level
- Remote control using the collected insights to act and optimize operations
- Custom interface and reports to access the most relevant data in a couple of clicks
- Move to condition-based (predictive) maintenance for critical assets (grills, fryers, cold room, HVAC system)
- Data storage minimum 5 years and local storage 30 days

**Interoperability with your EMS, access control and 3rd party analytics.**

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## CASE STUDY

New and existing restaurants designed to accelerate sustainability

# McDonald's Portugal

Working together since 2016

### The Challenge:

- Understand energy usage
- Find energy savings
- Move to a condition base (predictive) maintenance for critical assets (grills, fryers, cold room, HVAC, hot water production systems, etc.)
- Benchmark the efficiency of energy use across devices, processes, and sites

### The Solution:

- Incorporate smart technologies to understand energy usage, e.g., production area, HVAC, lighting
- Real-time visualization of actionable data for all areas or only key areas in the restaurant
- Real-time communication and alarms supporting energy monitoring and condition-base maintenance

### The Outcome:

- Proven energy savings of at least 15% across 82 restaurants
- Smart alarming to prevent or identify potential asset malfunctions before they happen for critical assets (e.g. UPS machines, freezer & cooler, production area)

*Outcomes vary according to restaurant size, number of customers, sales, hours of operation, location and other factors.*



“Collaborating with companies that understand our business and challenges is more important than ever. Schneider Electric took the time to learn how McDonald’s operates. This enabled them to deliver a personalized solution that is helping us achieve key milestones to net-zero.”

**Miguel Teixeira Pinto,**  
Director of Development IOM Markets, McDonald’s

### What’s New for McDonald’s Portugal

The Pombal restaurant site pilot with integration of solar, energy storage and microgrid is being tested for McDonald’s next step to net-zero.

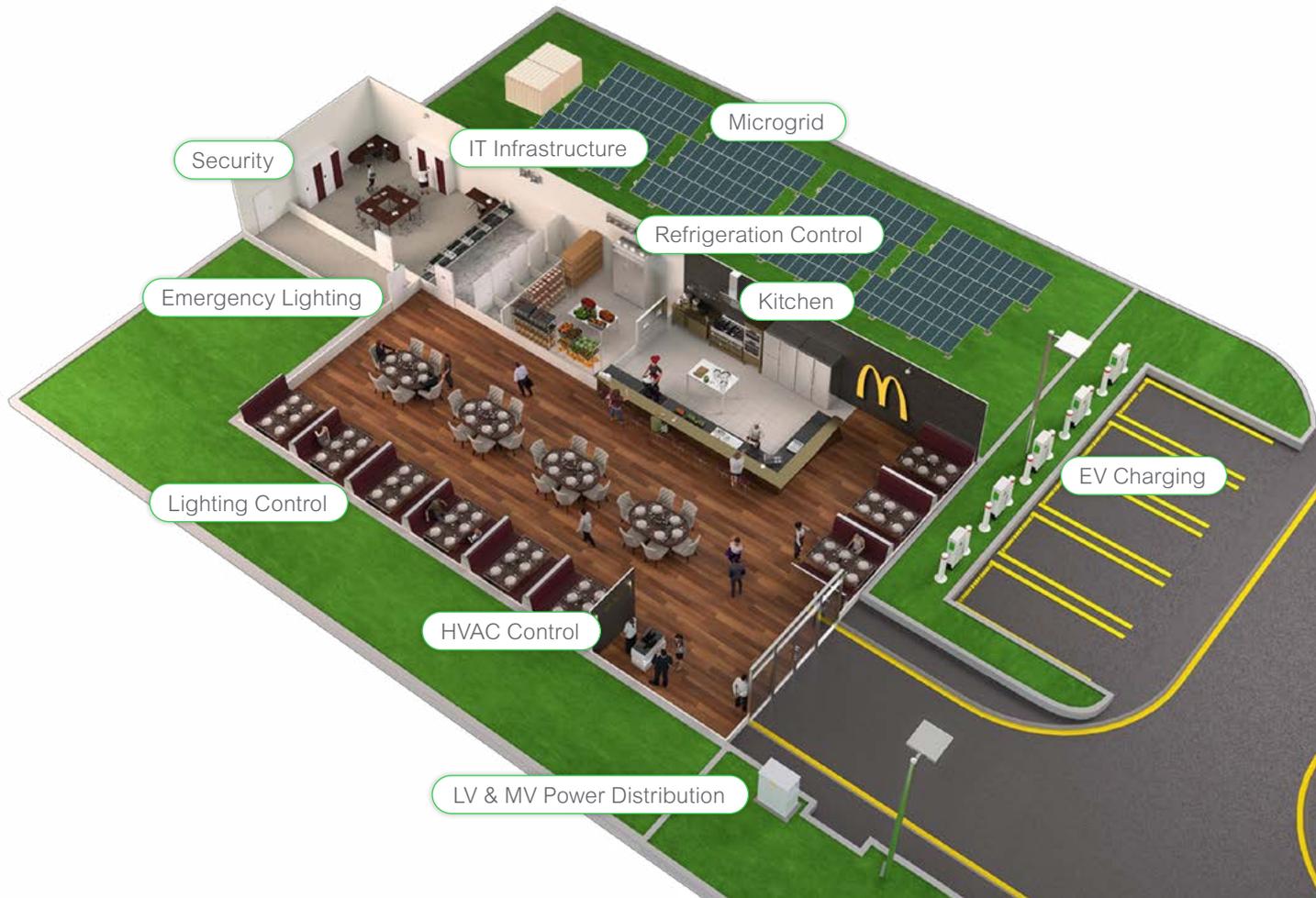
### Early Results

- Approximately 20% reduction on energy consumption of the building
- EcoStruxure Microgrids solution is able to cover 60% of the energy consumption of the restaurant and 40% reduction on CO<sub>2</sub> emissions



# Schneider Electric offers a complete portfolio

We are reshaping the restaurant experience with IoT solutions that deliver a unique advantage and unleash value across the lifecycle.



## Contact an expert

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For more information about  
solutions for future-proof  
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