Efficient Facilities

EcoStruxure™ manage safer, more available and greener resources
for Food & Beverage, Household and Personal Care production environments

Life Is On | **Schneider** Electric

**Our mission is to be
your digital partner for Sustainability and Efficiency**

Life Is On | Schneider Electric

Rethinking next generation industries:
business resilience and sustainability performance for lifecycle integrated management

We help on every step of the value chain

Efficient facilities
Safer, more available, and greener resources

Resilient supply chain
Manage complexity and improve visibility

Agile manufacturing
Boost manufacturing flexibility & efficiency

Life Is On | Schneider Electric

… leveraging transversal digital transformation capabilities

Food Safety & Traceability
Ensure compliance and increase trust across the whole value chain

Energy & Sustainability
Reduce environmental footprint and meet sustainability goals

Asset Performance
Maximize return on asset investment

Workforce Empowerment
Take teams efficiency to the next level

Digital Engineering
Cut time, cost and risks of capital project engineering

Life Is On | Schneider Electric

Efficient Facilities

Safer, more available and greener resources

Power Safety & Availability
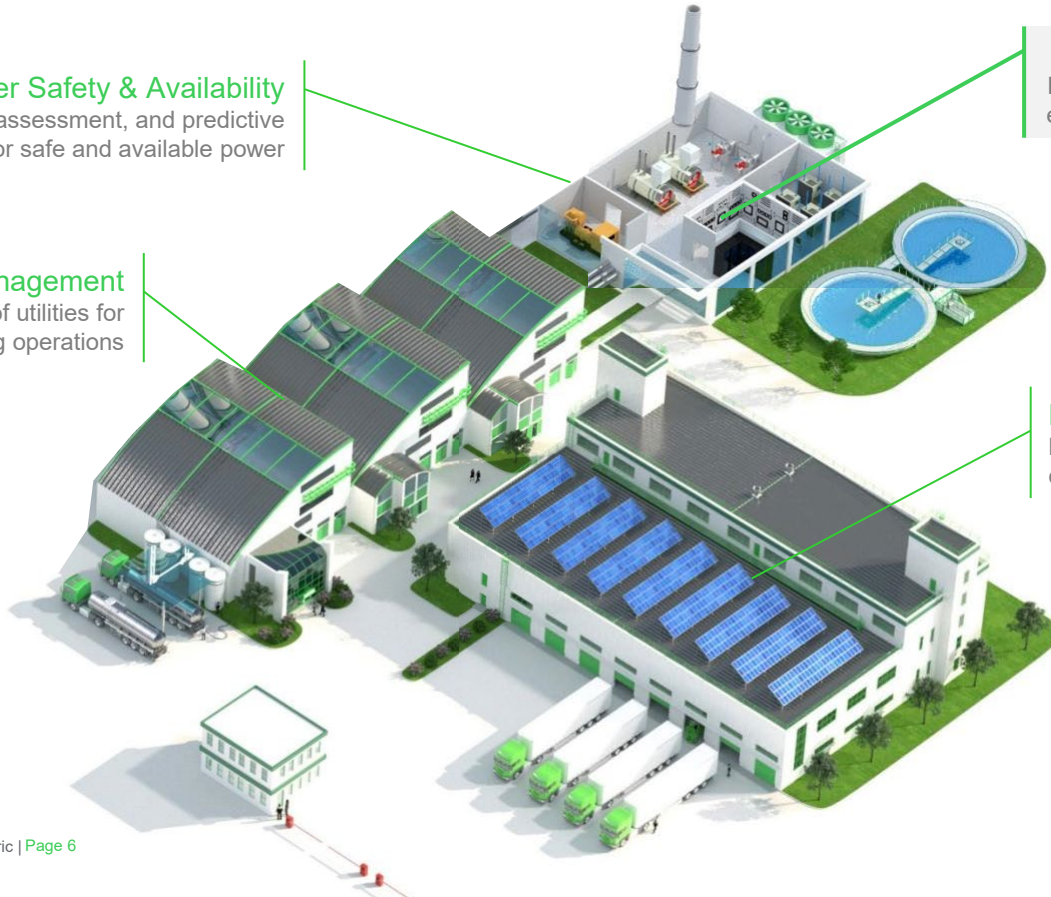Standardization, site assessment, and predictive maintenance for safe and available power

Server Rooms management
Provide self contained and secure computing environment for your on-premise applications

Building management
Effective and efficient use of utilities for your manufacturing operations

Renewable Energies & Microgrid
Manage complex energy mix to optimize cost and carbon footprint.

Life Is On | Schneider Electric

Server Rooms management

Provide self contained and secure computing environment for your on-premise applications

Data Management

- Increasing need for data collection at the edge?
- Data availability and consistency?
- Cybersecurity risks?

Operational Constraint

- Limited space?
- Scalability issues?
- Maintenance cost

Life Is On | Schneider Electric

Schneider Electric's micro data center portfolio allows replacement of large server rooms

A comprehensive portfolio available in few weeks

SmartBunker™ SX, CX, &FX

Smart Shelter™   Industrial racks

All manufactured, assembled & tested in a Schneider Electric facility

Life Is On | **Schneider**
Electric

EcoStruxure Micro Data Center

The Solution

- Protect against physical and environmental threats with camera monitoring, keylock doors, intrusion detection, and more.

- Complete offer of enclosures with different features to host the necessary IT equipment in any environment.

- Pre-integration Capability. Shock packaging allows equipment to be pre-integrated into the enclosure before it arrives on-site, speeding up deployment

- Reduce service visits and downtime. Reliable power and security offers coupled with pro-active services and analytics

+ Remote monitoring & services

Alliance
Partner Program

Certified in:
Edge Computing

Business Value

Plug&Play, Cost Effective, Standardized
EcoStruxure Micro Data Centers provide the reliability, resiliency, and security of a datacenter in a single enclosure that can be distributed in any edge environment.

✓ Reduce time to market

✓ Prevent equipment failures

✓ Reduce maintenance costs

✓ Extend equipment useful life

✓ Improve security

Pre-approved reference designs*

Hewlett Packard Enterprise · Lenovo · Stratus · DELL EMC · NetApp · AVEVA

Pre-configured solutions increase deployment speed and reduce field engineering costs by 25-40%, increase order processing speed by 20% and reduce maintenance costs by 7%. WWT.

Life Is On | Schneider Electric

IT Infrastructure Management

We have built a strong leading position in all applications...

Data Center
IT inside the data center

Racks & enclosures

IT Racks & Cabinets

Cooling

Room A/C & chillers

Prefab

Prefabricated modules

3-phase UPS

Switchgear & busways (cross-selling)

Software

DCIM

Software & services

Schneider Electric

#1 market share

Industrial
Heavy and light industrial applications

3-phase UPS

IT 3ph modular UPS

Industrial 3ph

Inverters

Industrial inverters

Micro Datacenters

Schneider Electric

#2 market share

Life Is On | Schneider Electric

Server Rooms management

Provide self contained and secure computing environment for your on-premise applications

Data Management

- Up to 25 less downtime risks
- Cost effective redundancy
- Faster incident resolution
- Cyber Risks mitigation

Operational Constraint

- Up to 60% reduction in footprint
- Reduction of cost of design
- Very fast deployment
- Optimized performance (up to 30% in power and maintenance costs)

Life Is On | Schneider Electric

Global Fast-Food Player

Micro data center infrastructure anywhere, anytime, Brazil

Customer Challenge
• Deploy secure, computing infrastructure to manage supply chain and other business operations at every location.
• Faster update of sales and marketing activities
• Minimize capital and operating costs e.g. maintenance and persona

The Solution
• Smart Bunker - Micro Data Center Xpress SX
• 1.5 KVA Uninterruptible Power Supply
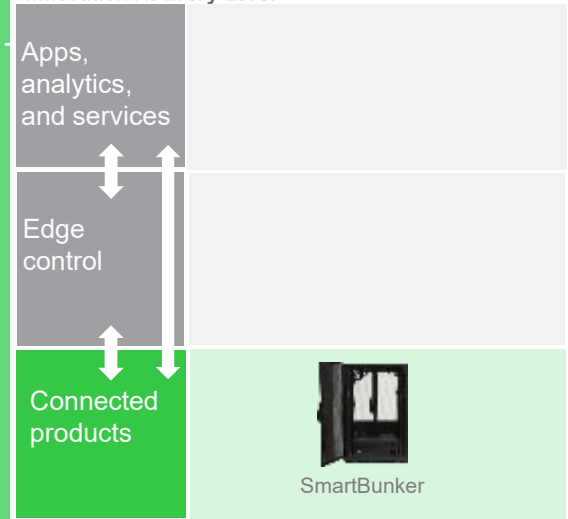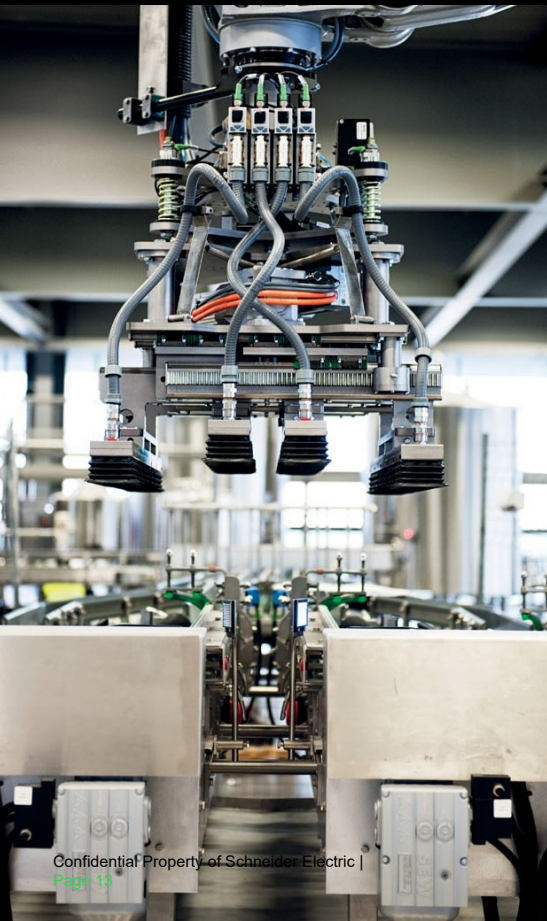• Power Cord and Basic rackmount Power Distribution Unit

Customer Benefits
• Pre-validated and standardized solution across multiple stores and regions
• Delivery process simplification
• Simplified single-vendor service support

The Results: Life is On with... 20% reduction in lead time with convenient delivery process and operational maintenance.

Add Data Center capacity anywhere and anytime – in both IT room and industrial environments

EcoStruxure™ for Retail
Innovation At Every Level

Apps, analytics, and services

Edge control

Connected products

SmartBunker

Life Is On | Schneider Electric

Customer Application
- Digital control of Champagne filling and labelling: Inspection systems that leverage HD high speed camera for real time quality controls.

Customer Challenges
- **Factory:** M&C believes that quality control is essential when you strive to deliver a consistent premium product. This means that quality control must be best-in-class and always on.
- **IT division:** No server room available, need of high bandwidth & speed infra for image mining / analysis real time, need resilient & secure IT equipment.

The Solution
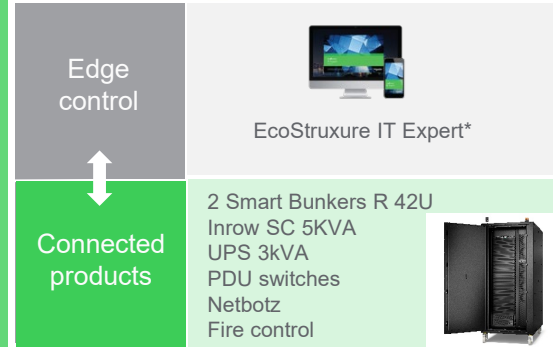- Pre-integrated end-to-end Edge solution deployed by Actemium, France Industrial System Integrator

Key success factors
- Internal collaboration btw Industry & Secure Power
- Strong relationships with customer's IT & Quality
- Strong relationships with Actemium, the trusted advisor of our customer

Driven by its pioneering spirit, **Moët & Chandon** has always produced a Champagne with an inimitable identity. The new factory reflects this mission: Factory 4.0 that combines innovation, efficiency and aesthetics.

EcoStruxure™ for Data Center
Innovation At Every Level

Edge control	EcoStruxure IT Expert*
Connected products	2 Smart Bunkers R 42U Inrow SC 5KVA UPS 3kVA PDU switches Netbotz Fire control

Life Is On | Schneider Electric

* under discussion

Nestlé Brazil
Sustainable Data Center provided by EcoStruxure IT

Customer Challenge
- New HQ for Nestlé Brazil en Sao Paulo, centered on innovative sustainable solutions for which a new Data Center infrastructure was needed

The Solution
- EcoStruxure IT including:
- EcoStruxure IT Expert
- NetBotz, PDU racks
- UPS

Customer Benefits
- Optimized solution vs what was originally planned (space & footprint)
- Redundant solution enabling energy efficiency and reliability
- Quick and flexible implementation thanks to a standard solution
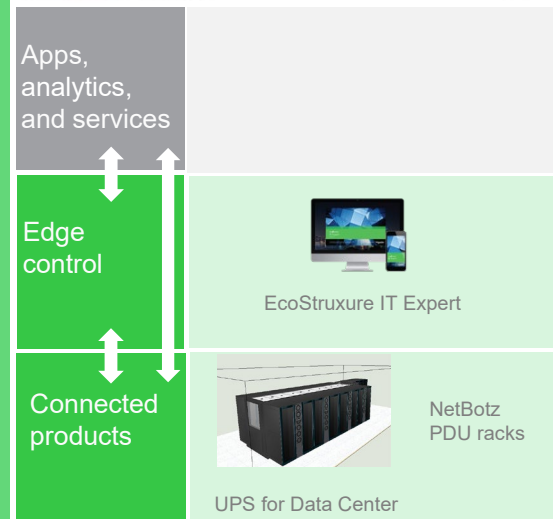- Modular solution enabling the expansión of the data center depending on demand

The Results: Life is On with... Sustainable solution aligned with the LEED certification of the building

"Nestlé is moving forward with the implementation of technologies from Industry 4.0 and accelerating the expansión plan, always focusing on solutions that bring operational and finacial results to the company. Fernando Molina, IT Manager Nestlé Brasil.

Link to Paper (Spanish)

The new Nestlé Brasil HQ is installed in a complex that is LEED Gold certified, one of the highest standards for building sustainability worldwide, implying efficiency for water, energy and waste management among other parameters.

EcoStruxure Innovation At Every Level **for Food & Beverage**

Apps, analytics, and services

Edge control — EcoStruxure IT Expert

Connected products — NetBotz PDU racks

UPS for Data Center

Life Is On | Schneider Electric

Efficient Facilities:

Safer, more available and greener resources

Power Safety & Availability
Standardization, site assessment, and predictive maintenance for safe and available power

Server Rooms management
Provide self contained and secure computing environment for your on-premise applications

Building management
Effective and efficient use of utilities for your manufacturing operations

Renewable Energies & Microgrid
Manage complex energy mix to optimize cost and carbon footprint.

Life Is On | Schneider Electric
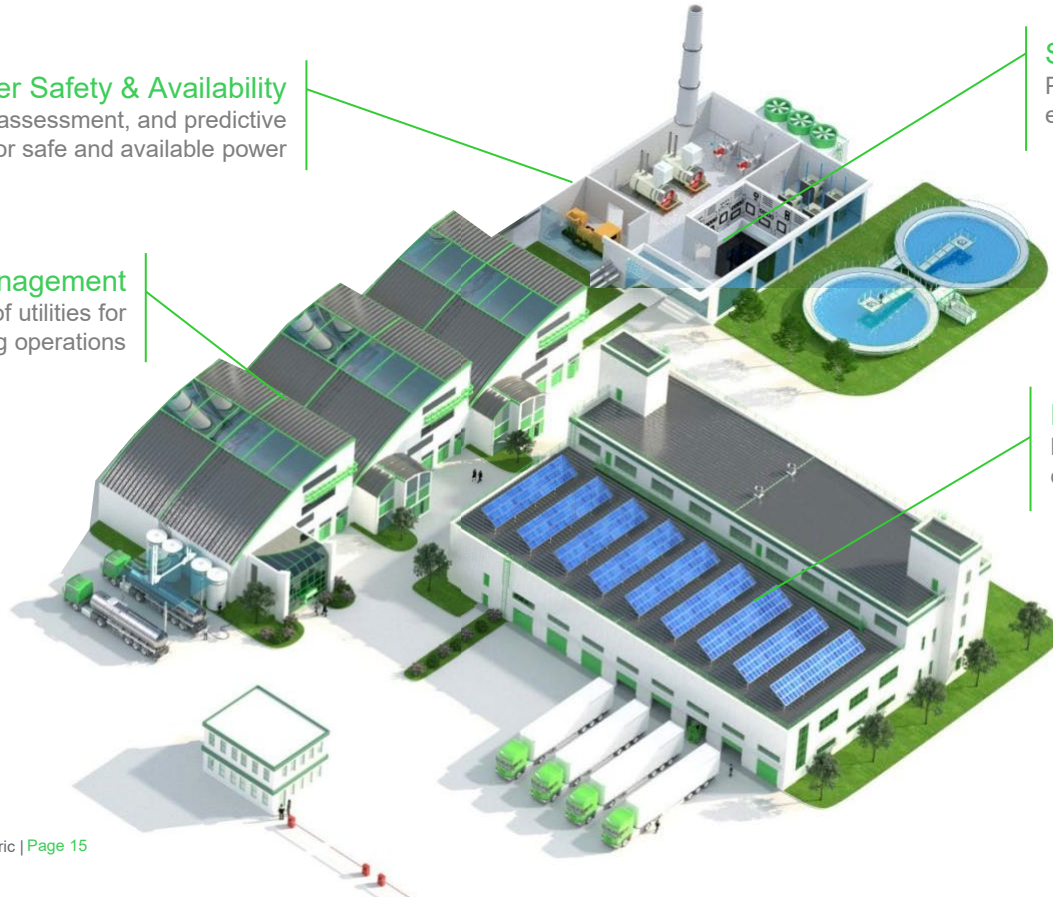
EcoStruxure for Food & Beverage / CPG

Agile manufacturing
Boost manufacturing flexibility and efficiency

- Manufacturing Operation Management
- Industrial Information Management
- Process Control System
- HMI and data Integration
- Process Automation
- Packaging Automation

Efficient facilities
Safer, more available, and greener resources

- Smart Building Management
- Power Safety & Availability
- Power Quality & efficiency
- Renewable Energy & Microgrids
- IT Infrastructure Management

Resilient supply chain
Manage complexity and reduce logistics costs

- Agriculture Efficiency & Sustainability
- Suppliers Management
- Supply Chain Optimization
- Cold Chain Monitoring
- Product Information Management

Food Safety & Traceability
Ensure compliance and trust across the product life cycle

- Food Defense
- Cybersecurity Services
- Digital Calibration
- Raw material traceability
- Production traceability
- Product Identification & Tracking

Energy & Sustainability
Reduce footprint and meet sustainability goals

- Sustainability Consulting
- Energy Demand Services
- Strategic Energy Sourcing
- Enterprise data management
- Energy as a Service

Asset Performance
Maximize return on capital expenditure

- Assessment and Consulting
- Enterprise Asset Management
- Condition Monitoring
- Predictive Analytics
- Line & Process Optimization
- Modernization services

Workforce Empowerment
Improve staff knowledge, productivity and collaboration

- Operator Training Simulator
- Augmented & Virtual Reality
- Workflow Management
- Staff Schedule Management
- Operator Knowledge Sharing

Digital Engineering
Cut time, cost and risks of capital project engineering

- Electrical CAD
- Building Information Modelling
- Integrated Engineering-Design
- Digital Asset Visualization

Life Is On | Schneider Electric

Let's talk about it.

Life Is On | Schneider Electric

Life Is On | Schneider Electric