



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**



**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

Agile manufacturing
Boost manufacturing
flexibility & efficiency

Resilient supply chain
Manage complexity and
improve visibility

... 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

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

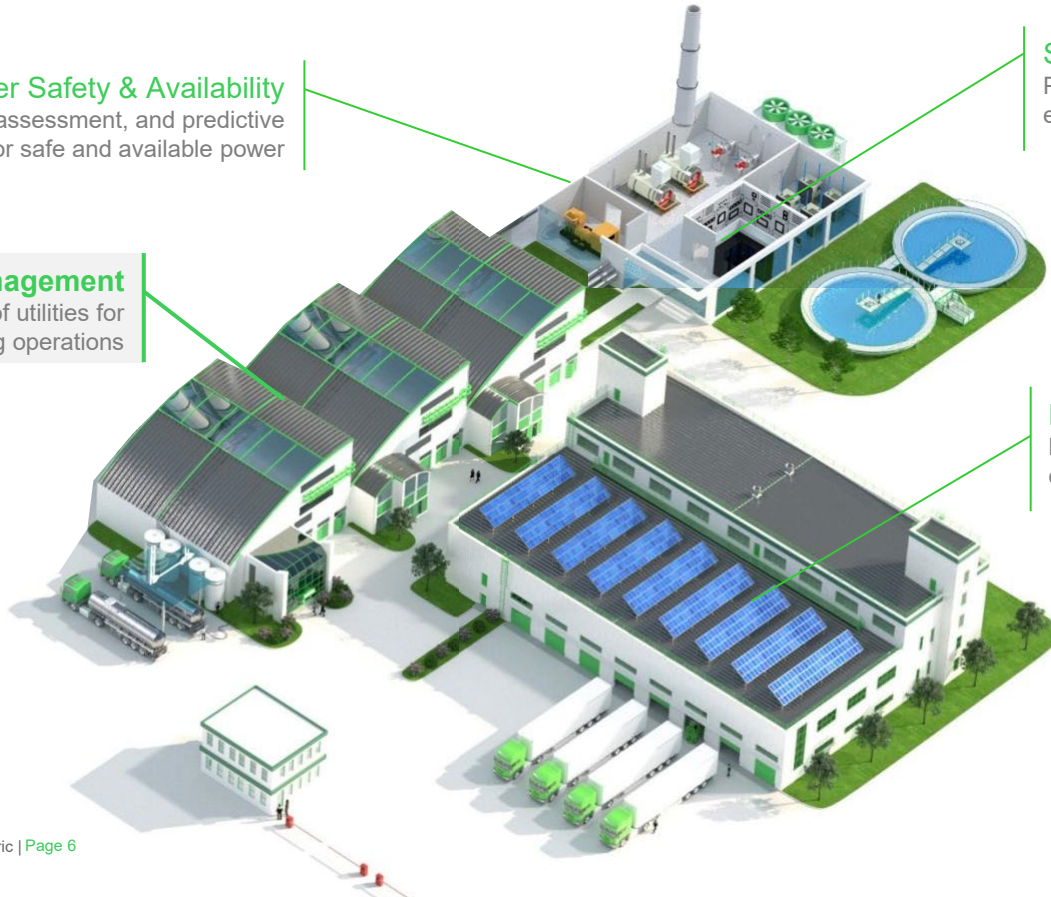
Provide self contained and secure computing environment for your on-premise applications

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.



Smart Building Management

Improved building management, operational efficiency, and energy savings

Multiple Siloed Systems



- Difficulty to integrate complex systems from multiple vendors?
- Poor visibility of your building performance?
- Adaptability to changing production requirement?

Cost of Operations and Maintenance



- High cost of Energy?
- High cost of maintenance and operations?

Safe, Secure and Productive Spaces



- Enhance safety and productivity of your workforce?
- Secure plant against threat?

Smart Building Management

Improved building management, operational efficiency, and energy savings

A unique view to your facility: the heart of building management system

An **open platform** that:

- integrates multiple systems and devices
- monitors, manages, and controls building operations on one network to increase efficiency
- 3rd party integration
- turn system data into actionable intelligence to optimize building performance and create productive environments



Synutra, France

Building Management Solution



Customer Challenge

- Building management solution for a new connected plant to ensure:
- Sustainability, economical, safety and quality goals
- Better management of the fluids spending (energy, compressed air, water, power) and reduction of carbon emissions to comply with European Directive.

The Solution

- AVEVA System Platform
- AVEVA InTouch
- AVEVA Historian

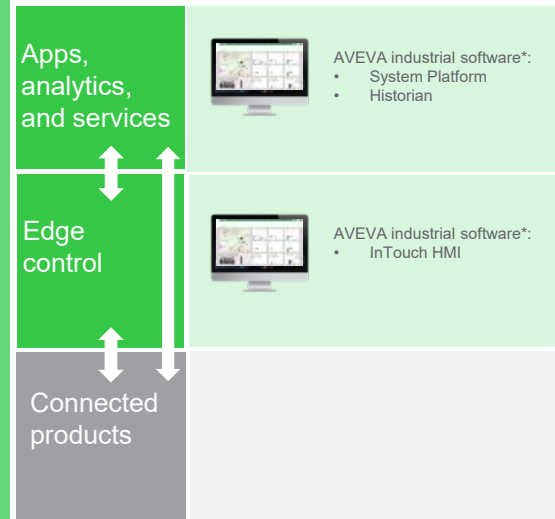
Customer Benefits

- Reports & analytics on each fluid, per shop floor and per line
- Increased energy efficiency and energy savings
- Reduction of the total running costs on the new plant
- Optimization of maintenance costs
- Connection to fire control and intrusion to increase safety of people & equipment

The Results: Life is On with...Compliance to ISO50001

3,000 cans infant formula produced per minute. 100,000 tons of milk powder per year. 3 evaporators, 4 air compressors, 2 dryers (6 tons/h), 2 steam generators (24 tons/h), Plant opened in September 2016

Ecostruxure for Food & Beverage
Innovation At Every Level



Lidl Finland Logistics Center

First Commercial Industrial Microgrid solution in Finland (in collaboration with Ramboll, Sweco, Fortum and Fingrid)



Customer Challenge

- To build a flexible, future-proof, environmentally friendly and energy-efficient new logistics center in Finland
- Ability to optimize heating and cooling and to participate in demand response markets for energy with a microgrid solution for solar energy
- BREEAM excellence award for the building

Solutions

- EcoStruxure Microgrid Advisor and PPC
- EcoStruxure Building Operation
- eValvomo (cloud service for remote monitoring)

Customer Benefits

- 100% renewable energy sources.
- CO₂ emissions cut by 40%
- A lifecycle optimized solution for future expansion

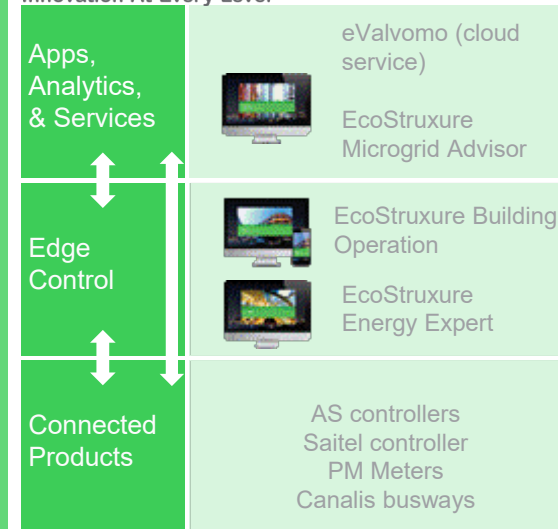
The Results: Life is On with... 50% less energy than current two operational centers

“We value the fact that Schneider Electric can offer an energy efficient and flexible solution that integrates our many facilities into one integrated system that serves us throughout the lifecycle of the buildings”

Simo Siitonen,
Lidl Energy Sourcing

Lidl is one of the **biggest grocery store chains** in Europe. In Finland Lidl has currently over **170 stores** and more than **5200 employees**.

EcoStruxure™ For Retail
Innovation At Every Level



Global Dairy player

Evolution of systems and comfort for the occupant



Customer Challenge

- Improve the running of their headquarters using new functionalities such as the management of work spaces
- Renovate the Building Management System
- Facilitate the maintenance for the operator
- Ensure more comfort for the occupants

The Solution

- EcoStruxure Building Advisor (BMS) solution

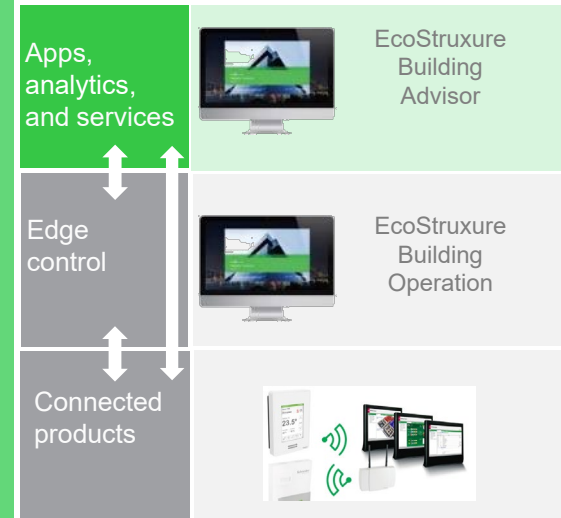
Customer Benefits

- Reduce OPEX
- Ease of use and simple to modify
- Connected to existing third party system
- Preventive maintenance facilitated
- Open system and non-proprietary

The Results: Life is On with... 100% scalable solution

Producer of dairy products and health food

EcoStruxure™ For Food & Beverage
Innovation At Every Level



Efficient Facilities:

Safer, more available and greener resources

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Standardization, site assessment, and predictive maintenance for safe and available power

Building management

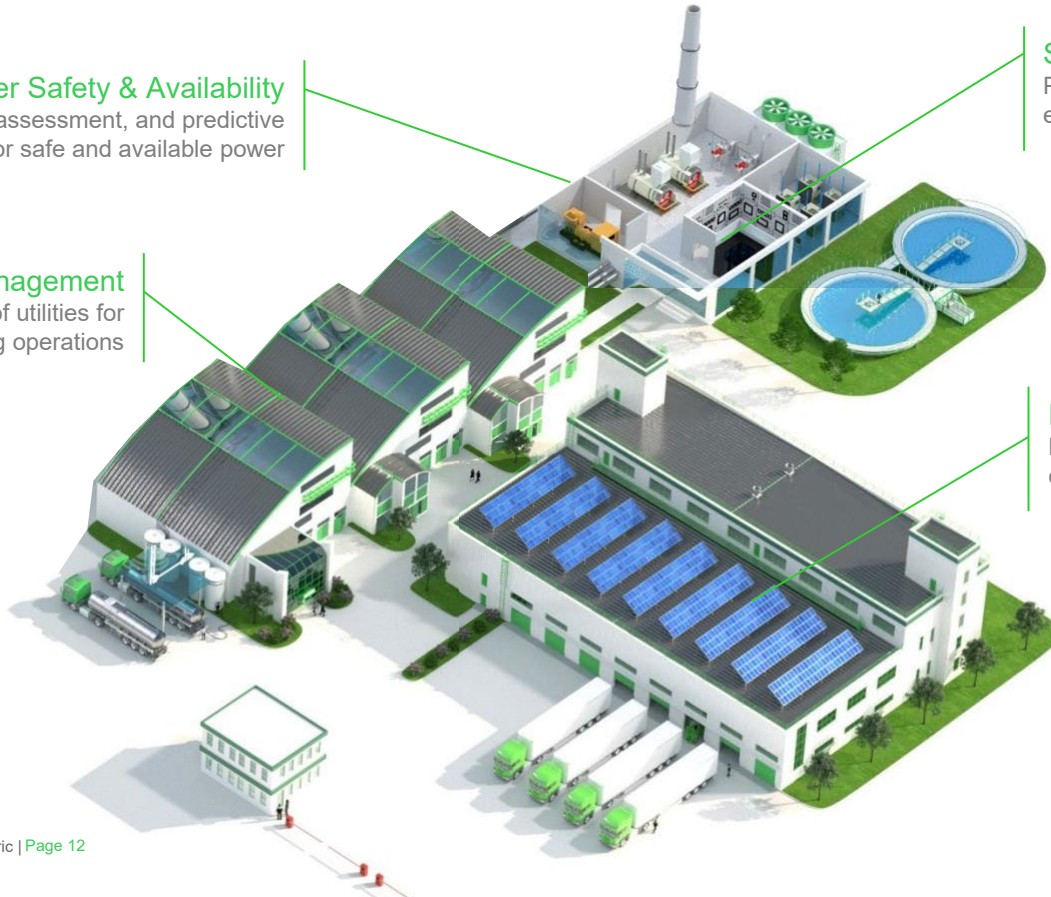
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Renewable Energies & Microgrid

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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

A photograph of two men in white lab coats and hairnets standing on a factory floor. They are leaning on a yellow and black railing and talking. The background shows a complex industrial facility with various pipes, structures, and equipment. The text "Let's talk about it." is overlaid in the center of the image.

Let's talk about it.

Life Is On



Schneider
Electric