Efficient Facilities

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

Resilient supply chain
Manage complexity and improve visibility

Agile manufacturing
Boost manufacturing flexibility & efficiency
... 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

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

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

Renewable Energies & Microgrid
Manage complex energy mix to optimize cost and carbon footprint.
Improved building management, operational efficiency, and energy savings

**Smart Building Management**

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

**Multiple Siloed Systems**

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

**Cost of Operations and Maintenance**

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

**Safe, Secure and Productive Spaces**
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
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

Synutra, France
Building Management Solution

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
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.
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
Efficient Facilities:
Safer, more available and greener resources

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

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Effective and efficient use of utilities for your manufacturing operations

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

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

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### 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
Let’s talk about it.