

EFFICIENCY

Innovating at the source

Danone evian – Évian-les-Bains, France

How Schneider modernization services enabled a facility upgrade for more efficient and environmentally friendly operations

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Schneider
Electric



Goal

Monitor, visualize, and manage energy use in real time; increase energy efficiency; achieve sustainability goals.

Story

Danone evian wanted to upgrade its bottling facility to deliver natural mineral water more sustainably by reducing energy consumption at every stage of production.

Solution

Service and Modernization Plan, consulting services, EcoFit™ Circularity solutions.

Results

- Improved uptime and services continuity
- Energy consumption reduced by 34%
- Savings estimated at 8 tons of material avoiding the equivalent of 70 tons of CO₂, and 700 m³ of water

Sourcing natural goodness

The internationally renowned brand of evian natural mineral water belongs to French food group Danone. The brand's history reaches back to 1789 when the Marquis de Lessert discovered a spring in the town of Evian-les-Bains.

The unique crisp taste of evian water is the result of its 15-year journey through glacial rocks, where it gets filtered and enriched with minerals and electrolytes. Upon arriving at its destination in Évian-les-Bains, it gets bottled at the evian factory, which has 14 production lines delivering 33 product types, from 75 centiliters glass bottles to the 6-liter carboys.

But as Gilles Meunier, Electrical Distribution Manager at evian, explains “Our business as mineral water producers is not only bottling this resource, but above all preserving and protecting it.”

This is one of the reasons why the company decided to modernize its facility, aiming to deliver its mineral water more sustainably. The key challenge of the project was maintaining the continuity of operations, which meant all modernization work had to be synchronized with just two annual maintenance shutdowns at the site.

A natural fit for the challenge

Danone evian has had a long-lasting partnership with Schneider Electric dating back to 1994 when the factory's distribution network was built with Schneider hardware.

For the modernization project, Danone evian decided to go with Schneider's Service and Modernization Plan. The companies signed a 7-year contract with a fixed annual fee for both modernization and maintenance of the electrical installation. This way, Danone evian gained better control of its operating budget while achieving the highest possible uptime.

The project kicked off with an EcoConsult audit to comprehensively evaluate the condition of the existing equipment. Schneider experts worked to identify and document possible safety risks and regulatory issues, assess current capabilities, identify required upgrades, and create a complete overview of installed assets.

In the next step, the old MV switchgear were replaced with the new Schneider's SM6 switchgear. Schneider also took care of the end-of-life processing of old equipment, including the environmentally friendly disposal of SF₆ gas.

The LV switchgear were modernized within Schneider's EcoFit™ solutions. The old MasterPact type M circuit breakers got exchanged for the latest MasterPact MTZ 2 circuit breakers. This upgrade helped shorten modernization downtime, reduced costs, and lowered the environmental impact of the project.

Since 1994

Danone evian has had a long-lasting partnership with Schneider Electric



Win-win for business and nature

After the facility upgrade, Danone evian can now visualize, monitor, manage, and analyze its power quality and energy use in real time via its local platform. With actionable insights from its data, the company has reduced energy consumption and improved power continuity.

What's more, by choosing equipment modernization with EcoFit™ instead of immediate replacement, Danone evian saved the manufacturing of 8 tons of material avoiding the equivalent of 70 tons of CO₂, and 700 m³ of water**.

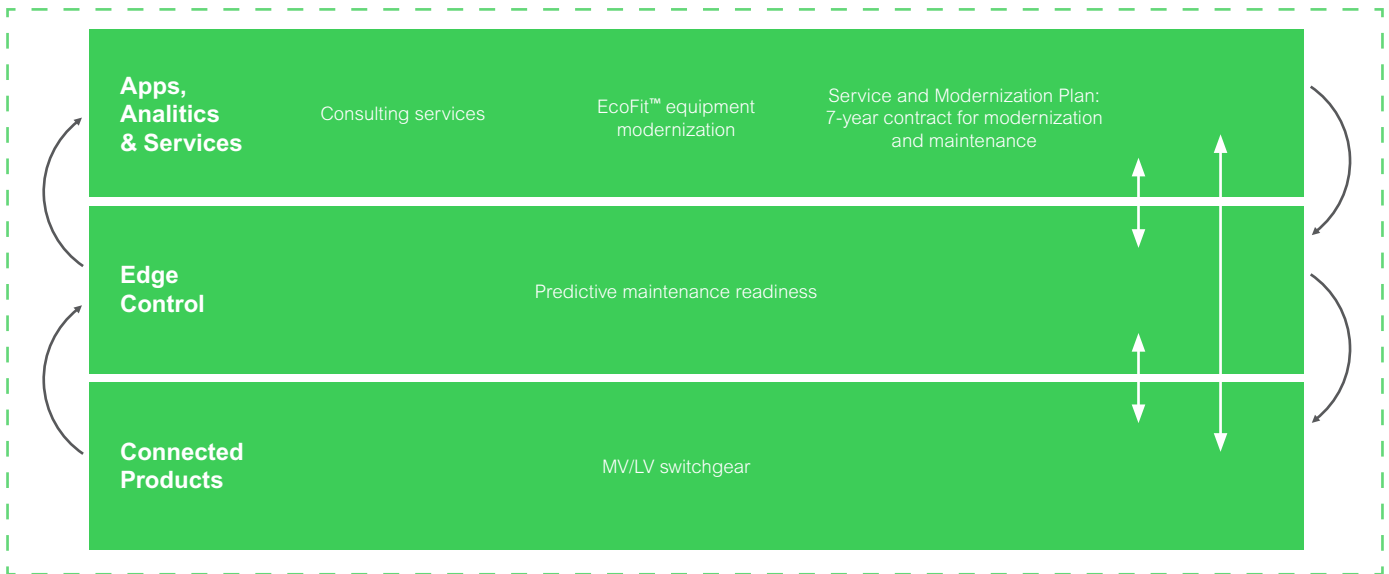
Today, the site operates 100% on renewable energy and the line manager can now measure the differences in consumption with his machines, and this approach has enabled Danone evian to reduce energy consumption by 34% in KWh/1000 bottles preforms.

Danone evian and Schneider Electric continue to work together on further projects, which include upgrading the bottling factory's automation system with the Modicon M580 PLC and modernizing the site's air-handling units.

“This modernization has enabled us to analyze the collected data in order to reduce our energy consumption at the industrial site.”

—Gilles Meunier,
Electrical Distribution
Manager at
Danone evian

EcoStruxure™ for Food & Beverage



EcoStruxure™ Architecture

*CO₂ savings based on SF₆ recovery, increased energy efficiency, and prolonged life of existing equipment (avoiding emissions from manufacture of new devices).

**Water savings based on estimated amount saved by avoiding manufacture of new devices and prolonging life of existing equipment.

EcoStruxure™

Innovation At Every Level

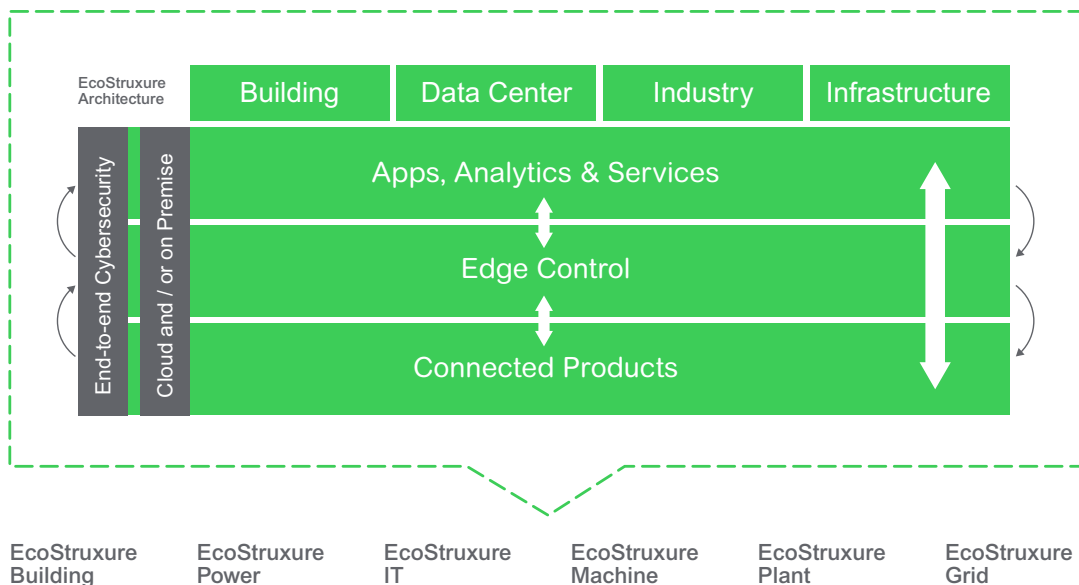
IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is Schneider Electric’s 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 & 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 & 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, & Services for seamless enterprise integration.

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Learn more



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Find out more about next generation service plan



Learn more about equipment audits



Improve your uptime with condition-based maintenance



Get our guide “400 on-site audits reveal: The 8 most common risks in your electrical and automation systems”



Discover EcoStruxure for Food & Beverage

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