EFFICIENCY

Implementing a green clean-in-place process

Nestlé Waters – Vergèze, France

How EcoStruxure™ for Food & Beverage improves
the traceability of cleaning and production processes.

Preserving the natural purity

Nestlé Waters is the world leader in bottled water. One of the company's iconic sparkling water brands is Perrier, manufactured at the Vergèze factory in the south of France. The region with the famous, naturally carbonated source springs is also known for its biodiversity and well-preserved environment.

The Vergèze plant has 13 production lines and an installation comprising several hundred meters of pipes. To ensure the high quality of Perrier water, Nestlé Waters needed a clean-in-place (CIP) process that meets best-in-class standards. Traditional cleaning performed during a period of machine shutdown represented 20% of the working time of the facility and impacted operational efficiency.

Nestlé Waters was looking for a solution that would help them win back some time for production while maintaining product quality and compliance with food safety regulations.

Goal

Optimize the cleaning process at Nestlé's Perrier factory to improve traceability, ensure compliance with regulations, and reduce operating costs.

Story

Nestlé Waters was looking for a sustainable, all-in-one solution to reduce downtime needed for a clean-in-place process.

Solution

EcoStruxure Clean-In-Place Advisor

Results

- Enhanced traceability of the clean-in-place process with easy access to entire cleaning data and documentation

- Simplified diagnostics of cleaning cycles and production

- Facilitated commissioning of new production lines

- Higher productivity, reduced cleaning time

- Improved maintenance with dedicated custom features

- Trimmed operating costs

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Sustainability in place

"**Cleaning is one of the biggest challenges in our industry. Schneider Electric worked closely with us on the continuous improvement of clean-in-place processes**," said Bernard Florès, Manager of the Industrial Process Department, Nestlé Waters Vergèze plant.

Schneider's EcoStruxure Clean-In-Place Advisor enabled comprehensive monitoring of cleaning operations at the Vergèze facility. Tracking and fine-tuning of cleaning cycles significantly reduced water losses, the use of chemicals, and energy consumption. Detecting and fixing valve issues helped to save 340 t of CO_2, i.e. 50% less than average, on some production lines in the first year.

The flexibility of EcoStruxure CIP Advisor allowed integration and synergies with features of WonderWare, a software already used by Nestlé Waters. This resulted in a transparent view of CIP process data and analytics. **"With our machines running on this software, we can check if cleaning is done correctly, simplify diagnostics, generate detailed information on cleaning cycles, and create operational reports,"** explained Bernard Florès.

20%
shorter cleaning time

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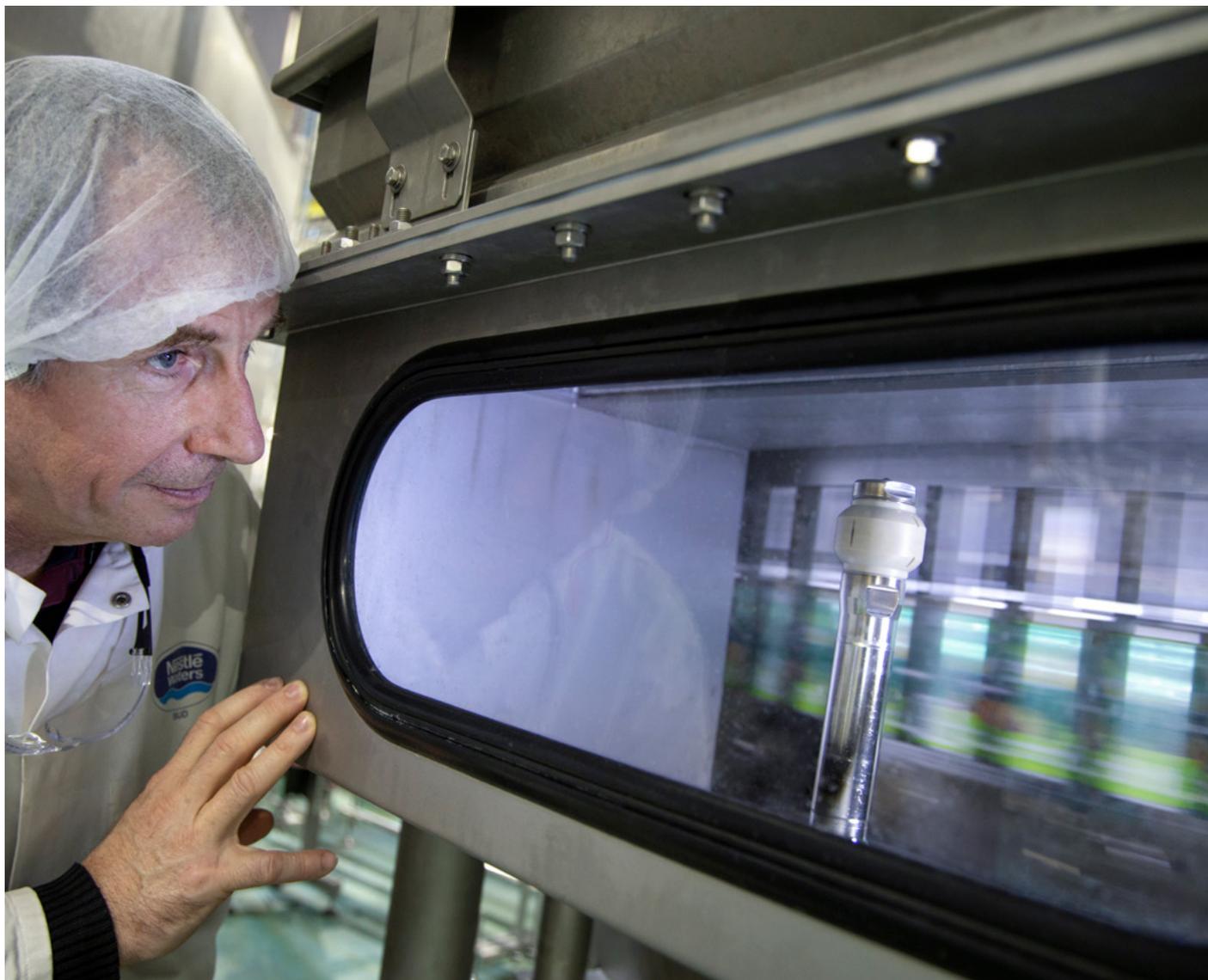
Towards an eco-responsible future

Implementing EcoStruxure Clean-In-Place Advisor at the Vergèze plant brought impressive results. **"Thanks to EcoStruxure, the time needed for analysis, and therefore repairs, is considerably reduced. We're now able to save up to 20% downtime on our production lines,"** said Bernard Florès.

Other benefits include energy savings and lowered operating costs. The traceability of the clean-in-place process is now simplified, compliance with food safety regulations ensured, and ecological standards respected. **"Our excellent collaboration with Schneider Electric enabled us to introduce eco-responsible solutions. And prepared us to implement the standards of tomorrow,"** summarized Florès.

Encouraged by the results achieved so far, Nestlé Waters aims to replicate the same clean-in-place process at other sites with similar challenges.

"With EcoStruxure Clean-In-Place Advisor, we reduced production line downtime in CIP cycles by 20%."

—Bernard Florès, Nestlé Waters Vergèze plant

EcoStruxure™ for Food & Beverage
Innovation At Every Level
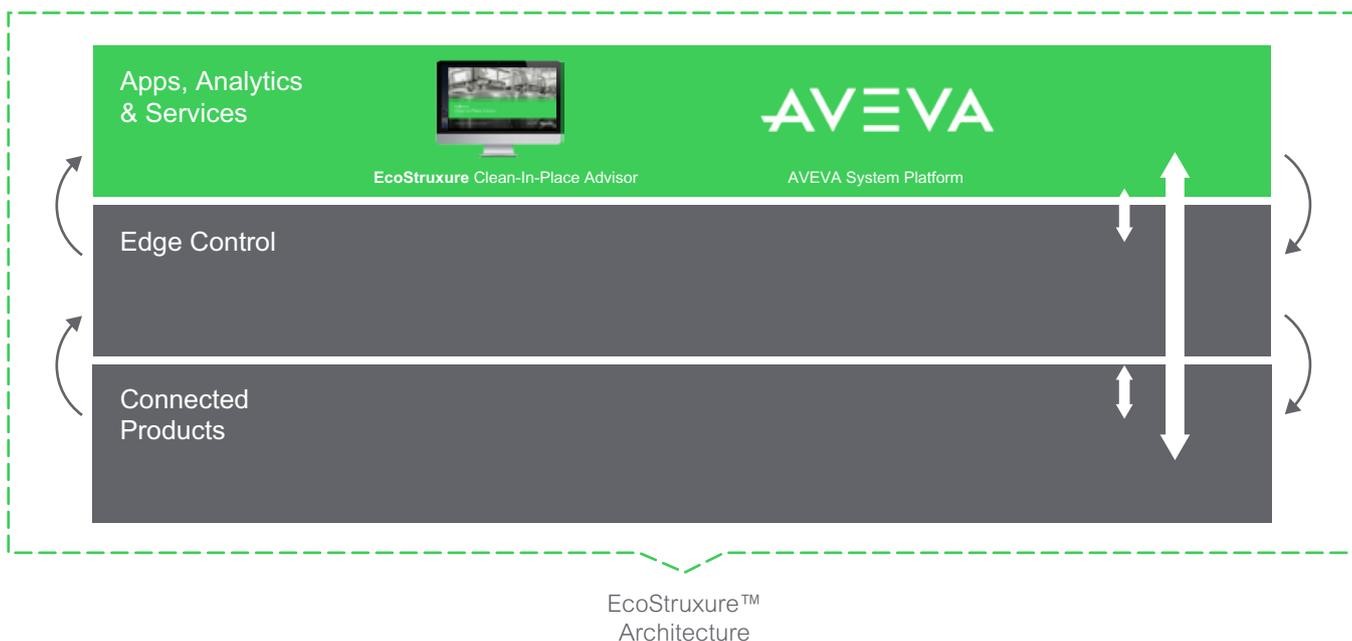
Apps, Analytics & Services

EcoStruxure Clean-In-Place Advisor

AVEVA

AVEVA System Platform

Edge Control

Connected Products

EcoStruxure™ Architecture

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Eco S truxure™
## 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

| EcoStruxure Architecture | Building | Data Center | Industry | Infrastructure |

End-to-end Cybersecurity | Cloud and / or on Premise

Apps, Analytics & Services

Edge Control

Connected Products

EcoStruxure **Building**   EcoStruxure **Power**   EcoStruxure **IT**   EcoStruxure **Machine**   EcoStruxure **Plant**   EcoStruxure **Grid**
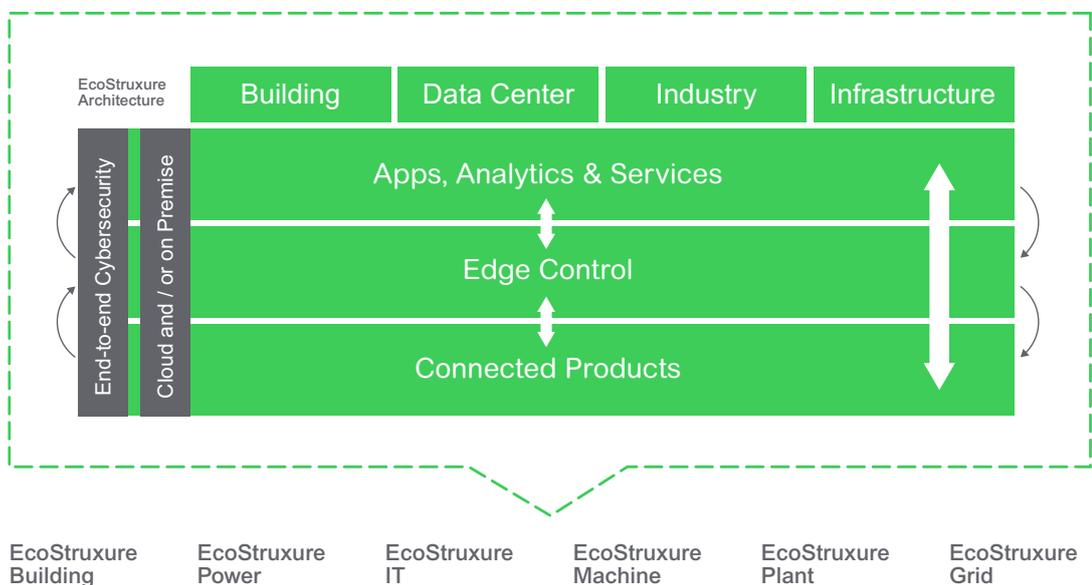
Connected Products

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.

Find out more about EcoStruxure

se.com/ecostruxure

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Learn More

See how Nestlé Waters improved traceability

Find out the full capabilities of EcoStruxure CIP Advisor

Learn more about optimizing CIP operations

Discover EcoStruxure for Food & Beverage

Drive your digital transformation with EcoStruxure Plant & Machine

Explore our other customer stories

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