

SUSTAINABLE

Delivering safety and reliability
with a climate-smart solution

Wilo Pumps Indonesia - Jakarta, Indonesia

A remote monitoring and control solution
with EcoStruxure™ Machine

se.com/machine

Life Is On

Schneider
Electric



Adapting to nature

Wilo is one of the world's leading providers of pumps and pump systems for the building services, water management, and industrial sectors. For over 150 years, Wilo has consistently set the standards for pump development, from the creation of the first circulation accelerator in 1928 to the current generation of intelligent, high-efficiency pumps.

The multinational company entered the Indonesian market in 2008, when PT Wilo Pumps Indonesia was established as a subsidiary of the Wilo Group. In Indonesia, Wilo Pumps partners with several mining companies, delivering intelligent, efficient, and sustainable pump solutions to meet their needs. Most of the mining companies require Wilo's services for building dewatering systems at their sites.

Dewatering is crucial for every mining operation. It ensures resources can be mined efficiently and effectively, while also protecting against unwanted excess water. However, due to extreme weather, a severe flood damaged the dewatering system of one of Indonesia's largest mining companies. They turned to Wilo Pumps Indonesia to design and deliver a full dewatering system that would help prevent future flooding.



Goal

Provide a highly reliable dewatering pump system that allows for remote monitoring, reporting, and control of the pump skid to prevent flooding, while lowering operating costs and enhancing safety.

Story

Wilo Pumps Indonesia together with Arsindo, a pumping control panel builder, worked with Schneider Electric to design and deliver a full dewatering system to help prevent future flooding events for a mining company.

Solution

A fully integrated dewatering pump system using a combination of EcoStruxure™ Machine Advisor and AVEVA Edge, which operates on AVEVA Connect.

Results

- 20% reduction in energy consumption
- 25% less downtime through faster fault detection and resolution
- 40% reduction in labor costs: Only one operator per site/shift is now needed instead of four



Taking control of the waters

One of the main challenges that Wilo needed to tackle was the lack of access to the site. Its remote location makes inspecting, repairing, and maintaining the pump system extremely time consuming so the ability to monitor and control it remotely was vital.

A smart pump and water management system with remote monitoring capabilities would be the answer to the customer's requirements as it would also reduce operating costs while improving the reliability and security of the mining operation.

With this need in mind, Wilo decided to collaborate with Schneider Electric.

Building a premium digital automation solutions

The combination of EcoStruxure Machine Advisor and AVEVA Edge, which operates on AVEVA Connect, enables the mine's engineering team to monitor machine location, usage, and condition remotely with cloud-based control.

EcoStruxure Machine Advisor offers robust functionalities that allow real-time control of the pump system so it can run immediately and precisely in case of a flooding event.

25%

less downtime through faster fault detection and resolution

EcoStruxure Machine



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“With the support of EcoStruxure, we believe that Wilo Indonesia can consistently provide maximum reliability, flexibility, and sustainability for our customers.”

— Rizky Rachmadi,
Project Manager, Wilo
Indonesia

Additionally, EcoStruxure Machine Advisor increases visibility by allowing the maintenance team to monitor machine performance with individual dashboards, predicting machine maintenance, and sending notifications when necessary.

It also provides functionalities for troubleshooting and fixing the machines with cloud-based software tools. These features also help to improve machine consistency and performance.

This project was implemented by Wilo Pumps Indonesia as the strategic OEM, together with Arsindo as the pumping control panel builder, and Schneider Electric as the solution provider.

Delivering confidence and peace of mind

The results speak for themselves: The solution has reduced the mining operation's

energy consumption by up to 20% and reduced downtime by 25%.

It has also cut labor costs by 40% as only one operator is now needed instead of four.

Using EcoStruxure Machine, Wilo Pumps Indonesia can now provide its customer with maximum reliability, flexibility, and sustainability.

40%

reduction in labor cost



EcoStruxure™

Innovation At Every Level

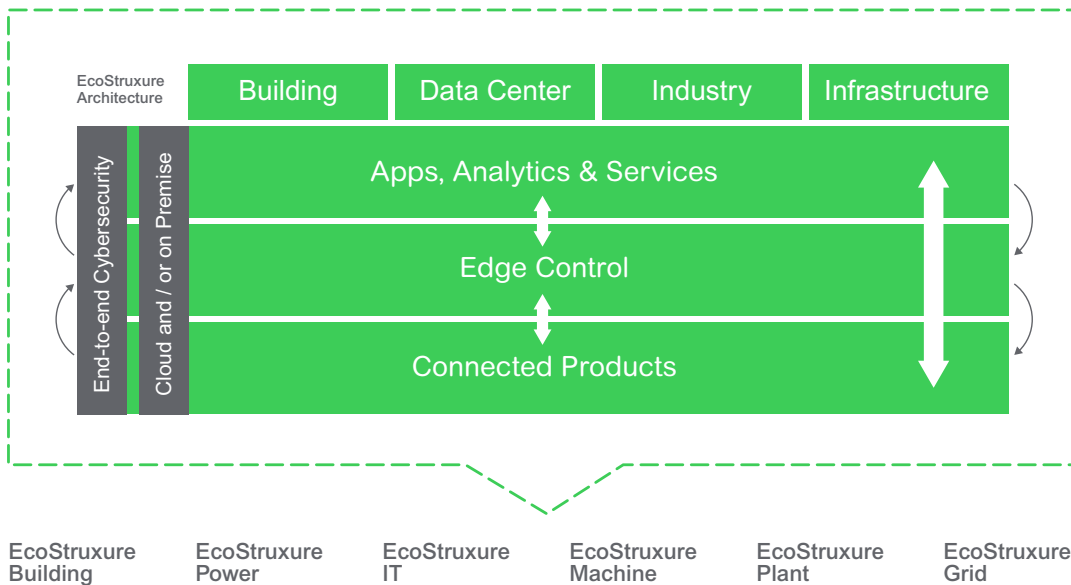
IoT-enabled solutions that drive operational and energy efficiency

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 450,000+ installations, with the support of 9,000 system integrators, connecting over 1 billion devices.

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.

Find out more about EcoStruxure

se.com/ecostruxure

Learn More



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Experience the Industries of the Future



Learn more about EcoStruxure Machine



Digital services for industrial automation



Leading-edge industrial software from AVEVA



Explore our other customer stories

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