



Predictive

IMPACT

through AI-driven
Condition-Based Maintenance

With improved uptime and safety with the EcoCare Service Plan, Zilia is unlocking greater process efficiency and sustainability with expertise in electrical distribution.



Zilia Technologies — Atibaia, Brazil

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Reliability: the key to growth

With a new brand name (earlier known as SMART Modular Technologies), with the quality, reliability, and a history of over 20 years manufacturing in the Brazil, Zilia Technologies is a pioneer and absolute leader in the production of DRAM and Flash memory integrated circuits and memory modules in the country. Additionally, they manufacture memory models for computers and servers as well as IoT connectivity models for the Internet of Things, enabling the interconnection of digital devices and distributed systems. Zilia has industrial parks located in Atibaia and Manaus, with clean rooms and assembly lines at the highest levels of automation and robotization, based on M2M (machine-to-machine) communication and the latest engineering and process management concepts.

Research and development of new technologies, products and production processes are also differentials of Zilia, which has highly sophisticated laboratory structure for failure analysis and technical compliance testing for each new product developed, in addition to a prototyping and testing laboratory of unprecedented semiconductor components in Latin America, implemented in partnership with the Instituto Eldorado, in Campinas.

“Our components and solutions offer high reliability, assured quality, and up-to-date technology at competitive prices. This has helped us be empaneled by all major Original Equipment Manufacturer (OEMs) and Contract Manufacturer (CMs) around the world,” said Adilson Piras, Engineering Supervisor at the site.

A digital modernization journey

Despite having state-of-the-art equipment, the facility met with challenges in process efficiency and maintenance costs. To overcome these hurdles, Zilia decided to modernize its electrical equipment and processes, while improving safety at its facilities.

“We’ve already installed reliable equipment but quickly realized that if we wanted to improve the reliability of the most critical assets further, we needed to invest in cutting-edge technology,” Piras said.

Since downtime affects the production process and service continuity, the project had to be completed swiftly. With proper planning and the support of Schneider Electric experts, the installation and configuration were accomplished in a day.

Goal

Modernize equipment and processes to improve process efficiency and safety, as well as optimize maintenance with condition-based maintenance.

Story

A semiconductor packaging fab modernized its systems and adopted an AI-driven condition-based maintenance approach without disrupting its operations.

Solution

- Installation of SM6 switchgear equipped with smart sensors for thermal monitoring
- Site connection in June 2022
- 7 medium voltage circuit breakers, 4 dry transformers, 4 medium voltage panels and 9 medium voltage cubicles are connected to digital platform
- Adoption of EcoCare for exclusive access to expertise and 24/7 remote monitoring of electrical equipment with faster response time to onsite support
- Access to installed base from anywhere at any time from MySchneider Portal
- Standardization of preventive maintenance
- Augmented reality-based safety training with EcoStruxure XR Operator Advisor

Results

The partnership resulted in improvements in uptime, efficiency, and performance. It also brought the facility closer to its sustainability goals.



From reactive to proactive maintenance

Zilia required support in gaining visibility of equipment’s health, optimization of its operations, and improving the safety of the facility. The project involved the installation of SM6 switchgear that is equipped with sensors for thermal monitoring. This, along with the EcoCare next-generation service plan, gave them exclusive access to experts and digital capabilities that enabled them to unlock the full potential of the connected products. EcoCare offered faster response time in remote and onsite support with 24/7 health remote monitoring of electrical equipment by Schneider Electric’s Connected Services Hub experts. Furthermore, all the data and maintenance reports are available in real time on the mySchneider portal.

In addition, the augmented reality-based Safety training with EcoStruxure XR Operator Advisor empowered the workforce to improve safety.

“This solution gives us entry to places that are inaccessible due to physical security—high voltage, for example. We can remotely monitor our equipment continuously and accurately, keeping our maintenance team safe. It also gives us access to instantaneous information and records that can help us identify future failures,” Piras explained.

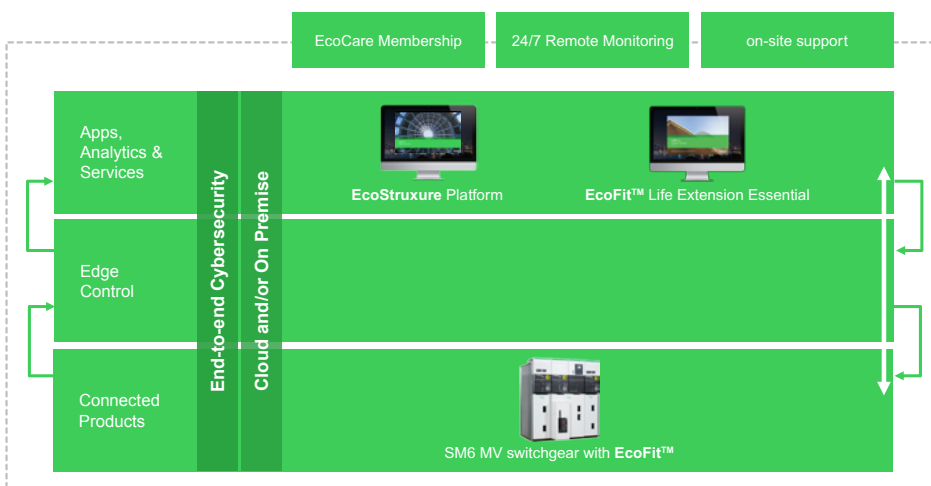
The partnership resulted in uptime, efficiency, and performance improvements in utilities, productivity, and safety. It also brought the facility closer to its sustainability goals.

Zilia at a glance:

20+ years of leadership in Brazil’s memory manufacturing industry.

- Absolute leader of producing DRAM and Flash memory chips locally.
- Two advanced facilities in Atibaia and Manaus with clean rooms and automated lines.
- Partnered with Instituto Eldorado, home to one of Latin America’s most advanced semiconductor testing labs.
- Products qualified by global tech giants, meeting international quality standards.

EcoStruxure™ for Semiconductor



“We can summarize this Zilia Technologies project with Schneider Electric in three words-partnership, predictability, and trust.”

— Adilson Piras,
Engineering Supervisor,
Zilia Technologies

EcoStruxure™

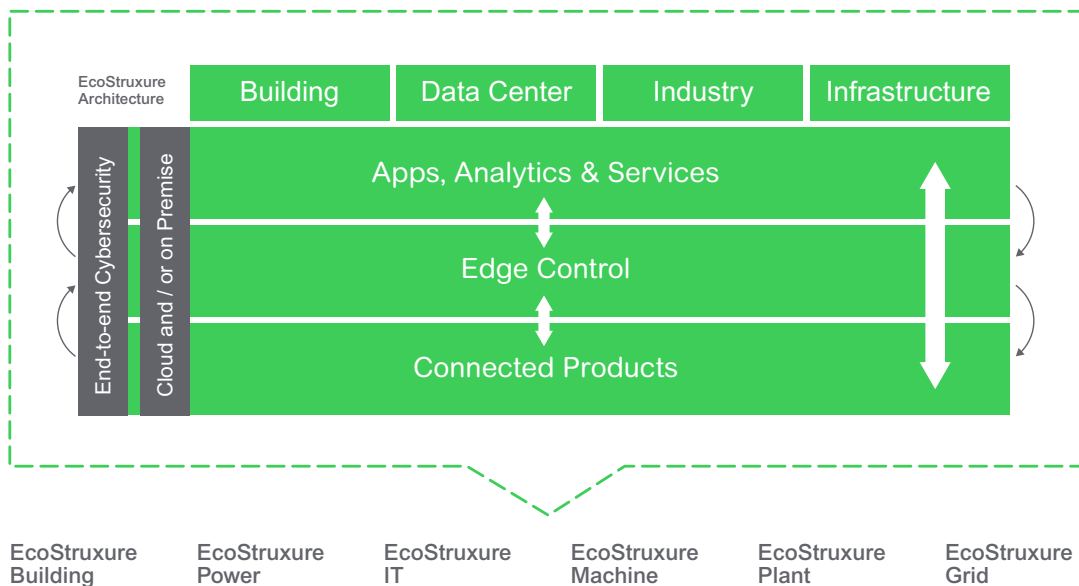
Innovation At Every Level

IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is our 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.

This includes Connected Products, Edge Control, and Apps, Analytics & Services which are supported by Customer Lifecycle Software. EcoStruxure has been deployed in almost 500,000 sites with the support of 20,000+ developers, 650,000 service providers and partners, 3,000 utilities and connects over 2 million assets under management.

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



Find more about EcoCare



Explore modernization
with EcoFit™



Discover EcoStruxure XR Operator
Advisor



Explore predictive and AI-driven
condition-based maintenance



Discover all our services



All solutions for Semiconductor

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