

SIVACON 8MF1 GREEN STEEL CONTROL CABINETS

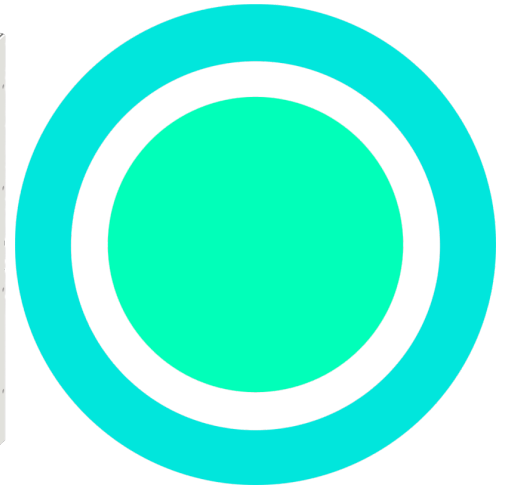
Siemens EcoTech Profile

SIVACON 8MF1



Low carbon materials

Steel made of 75 - 100% scrap metal and manufactured with renewable energy.



Minimum material use

Material savings optimization of panel layout resulting in weight saving of more than 10% in production process compared to previous solution.



Energy efficiency

Reduced use of energy through natural ventilation of cabinets diminishes reliance on active cooling systems.



Packaging

Thickness of stretch film used in packaging was reduced by 57% per cabinet compared to previous packaging solution.



Repairability

Modular system approach allows for parts replaceability and repairability.



Ease of disassembly / Circularity instructions

Easy to dismantle thanks to bolted instead of welded frame.



Compliant with substance regulations

Protect people and environment by avoiding substances of concern.



EPD Type II available

According to ISO 14021 including Life Cycle Impact Assessment (LCIA). The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle (e.g. Product Carbon Footprint (PCF) data).



Scan for [Environmental Product Declarations \(EPD\)](#) and further technical information.

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Range of application

This Siemens EcoTech Profile is valid for SIVACON 8MF1 Green Steel.

Further information on the product

Sustainable materials:



Low carbon materials

- The cabinet is made entirely from scrap metal sourced from reputable suppliers in Europe.
- Manufactured using energy from wind power only.
- Lower CO2 emissions compared to conventional steel.



Minimum material use

- CNC punching programs are optimized and optimized blanks are used. This makes it possible to punch more parts from one sheet with certain programs reducing punching waste.



Packaging

- Optimization of packaging leads to **15 t** less film per year.

Optimal use:



Energy efficiency

- Natural ventilation reduces energy consumption in good environmental conditions (typ. cooling fan power consumption: 2.4 kWh per day).
- Planning tool (SIMARIS therm) checks and evaluates the heating of switchgear and control gear assembly and selects the necessary form of ventilation to maintain optimum conditions.

Value recovery & circularity:



Repairability

- Doors, side panels, roof panels and corner stiffeners are replaceable.



Ease of disassembly / Circularity instructions

Can be completely dismantled before recycling.

Our production facilities

Our goal is clear: All Siemens production facilities and buildings worldwide are to achieve a net zero-carbon footprint by 2030. Today, all Siemens EcoTech products are manufactured in production facilities using **100% renewable electricity**.

And the ambitions go much further. The management systems implemented in our production facilities reduce the environmental impacts of our sites. Furthermore, we ensure fair treatment and respect for our people. More information about the 360° view on Siemens' sustainable transformation: [Learn more about our DEGREE framework](#)



Scan for more information on the [Siemens EcoTech framework](#)

Our Robust Eco Design process

The Siemens Robust Eco Design (RED) approach provides the foundation for integrating Ecodesign systematically into our product development and allows us to derive Ecodesign specifications that are advantageous from an environment point of view while meeting our own sustainability goals as well as those of our customers and suppliers. The RED approach involves three phases:

Application perspective

Definition of relevant product families, identification, and prioritization of Ecodesign requirements from stakeholder expectations.

Solid foundation

LCA-based assessment of environmental impacts for representative products along the entire life cycle, communicated via EPD.

Dematerialization

Evaluation of quantitative environmental impacts of Ecodesign and of further requirements, derivation of improved design specifications wherever reasonable.

