

8DAB 24 – blue GIS

Siemens EcoTech Profile

F-gas free gas-insulated medium-voltage switchgear



Low carbon material

20% PCF reduction by using Clean Air as insulating medium and by keeping the same product footprint.



Packaging

100% foam material is replaced by introducing a new packaging method reusing cardboard packaging waste.



Maintenance possible / Updatability

No maintenance is necessary during the expected lifetime since the switchgear housings are designed as sealed pressure systems.



Durability / Longevity

The expected lifetime is extended to 40 years for the current models.



Ease of disassembling / Circularity instructions

Clean Air as insulating gas can be released to the atmosphere at the end-of-life considerably increasing the ease of disassembly.



Recyclability

Up to 91% of the switchgear is recyclable due to high metal content.



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.



Range of application

This Siemens EcoTech Profile is valid for all products in the range of 8DAB 24 – blue GIS Circuit-Breaker Panel.

Further information on the product

Sustainable materials:



Low carbon material

- Use of Clean Air instead of SF₆ and keeping the same product dimensions leads to a **20%** PCF (cradle to gate) reduction vs. predecessor product.



Packaging

- By reusing cardboard from inbound deliveries as packing material we have replaced all the foam and chemicals in our packaging.
- The cover foil today has **50%** recycled material.

Optimal use:



Durability / Longevity

- Expected product lifetime under normal operation has been extended from **35 to 40 years** based on field research and R&D testing.



Maintenance possible / Updatability

- Due to maintenance free design, no additional site visits are necessary during the use phase of the switchgear reducing the need for travel and related CO₂ emissions.
- Additional activities like bookkeeping of SF₆ inventories and emissions are no longer needed.

Value recovery & circularity:



Ease of disassembling / Circularity instructions

- Due to the use of Clean Air as an insulating gas there is no need for certified personnel or specialized tools (needed for SF₆) to dismantle the product at its end-of-life.
- In addition, due to eliminating SF₆ gas from the product approx. **25%** PCF (end of life) reduction vs. predecessor product.



Recyclability

- Recyclability rate of up to **91%** is possible due to the high metal content of the switchgear.

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.



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