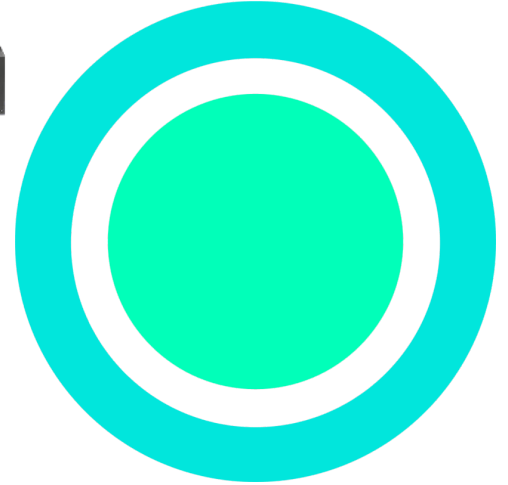


NXAIR

Siemens EcoTech Profile

NXAIR with LPITs (Low-Power Instrument Transformers)



Minimum material use

Overall product weight reduced by replacing conventional block type instrument transformers with LPITs.



Energy efficiency

Reduced energy consumption during the operation phase by minimizing Joule losses compared to the reference product with block-type current transformers.



Repairability

Easy accessibility from all directions throughout product lifetime, and ensured supply of spares and service globally.



Recyclability

Integrating LPITs in medium voltage switchgear increases recyclability by reducing resin-filled parts and using more recyclable materials.



Ease of disassembly / Circularity instructions

End of life instructions guide the user in proper practices and material fractions for recycling.



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 NXAIR with LPITs in the range of $U_r \leq 17.5kV$, $I_k \leq 40kA$, $I_r \leq 4000A$.

Further information on the product

Sustainable materials:



Minimum material use

- Elimination of epoxy, iron core, and windings results in an **8%** total weight reduction of the reference product with block-type current transformers.
- LPTs eliminate the need for transformer upgrades, as a single design meets all requirements by adapting to network changes and evolving needs without replacements, reducing material use, and enabling long-term flexibility.

Optimal use:



Energy efficiency

- In the operating phase, with the elimination of block-type transformers, Joule losses on the main current path are substantially reduced by **19%**.

Value recovery & circularity:



Repairability

- Busbar accessible from front or top, and cable from front or rear.
- Global spares/service support available.



Recyclability

- LPTs are lighter, use less epoxy, and increase recyclability to **86%** while cutting disposal to **10%**.



Ease of disassembly / Circularity instructions

- End of life instructions are provided with the product guide.

NXAIR: A Sustainable Investment for Today and Tomorrow!
<https://sie.ag/32WJJA>

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.

