

CLEAN AIR INDUCTIVE VOLTAGE TRANSFORMER

420 kV

Inductive Voltage Transformers utilizing **Clean Air** provide accurate and reliable voltage transformation, measurement, merging proven safety with eco-friendliness.



← SCAN ME OR
CLICK HERE



CLEAN AIR INDUCTIVE VOLTAGE TRANSFORMER

CHARACTERISTICS

- For voltage levels up to 420 kV
- Clean air as insulation medium
- Fully type tested according to International Standards

BENEFITS

- It uses environmentally friendly air instead of mineral oil or SF6
- Explosion-proof design in accordance with IEC 61869-1 Class II, verified in tests
- Clean Air does not cause or spread fire under any circumstances

SUSTAINABILITY

REGENERA® is Trench Group's **Quality Label**, awarded to offerings that combine technical excellence with environmental responsibility.



Primary Terminal

Rupture disc
- explosion proof design

Composite Insulator

Gas Density Monitor

Housing

MAIN FEATURES

Sustainable and maintenance free



Clean Air

Like breathing air, the insulator consists of 20% oxygen and 80% nitrogen. The purity is higher and the water content is lower - the most sustainable insulating material for high-voltage devices.



Environmental

The Clean Air Voltage Transformer has a global warming potential, GWP, and an ozone depletion potential, ODP, of 0 and ensures CO₂ savings over its entire service life.



Proven Design

The design is based on the reliable conventional gas devices, that have been in use for 50 years and of which over 100.000 have been in service.



Enhanced Operational Safety

Superior internal arc behaviour, absolutely explosion-proof, in accordance with IEC 61869-1 Class II and proven in tests. The safest isolator technology on the market, as Clean Air neither triggers nor spreads fire.



Maintenance

Maintenance-free and therefore cost- and time-saving over a service life of more than 30 years.



Technical/Finance Advantages

There is no need to document or report leaks, as Clean Air is not subject to the F-Gas Regulation. It does not require specialised personnel and does not cost extra to dispose of.

PRODUCT APPLICATIONS

INSIDE THE PRODUCT

Main components of the Clean Air Inductive Voltage Transformer

Clean Air Voltage Transformers are the only sustainable and cost-saving alternative to SF6 insulation with no GWP or ODP. They are maintenance-free, designed to last for more than 30 years with no emission, operating or recycling costs.

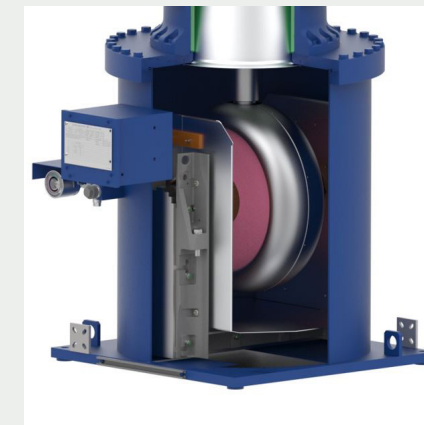
PROVEN DESIGN

Our portfolio of Clean Air Voltage Transformers is available up to 420 kV. The modular design is optimised for reliability and maintenance free for more than 30 years.



RUPTURE DISK

The rupture disc of a Clean Air Voltage Transformer, in this case with Dead Tank, acts as a safety system that is triggered in the event of overpressure and effectively prevents an imminent explosion.

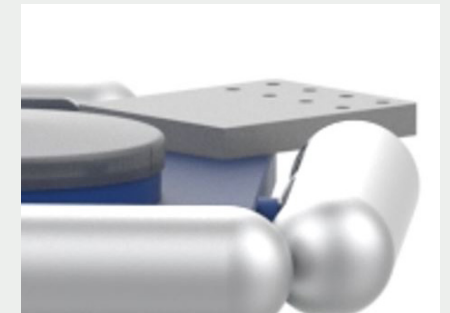


WINDING

Optimized high voltage coil assures identical electric stresses, under both transient and steady state conditions.

PRIMARY TERMINAL

Depending on the application and requirements, Clean Air Voltage Transformers can be fitted with customised high voltage connections, HV, designed to IEC and NEMA specifications and others.

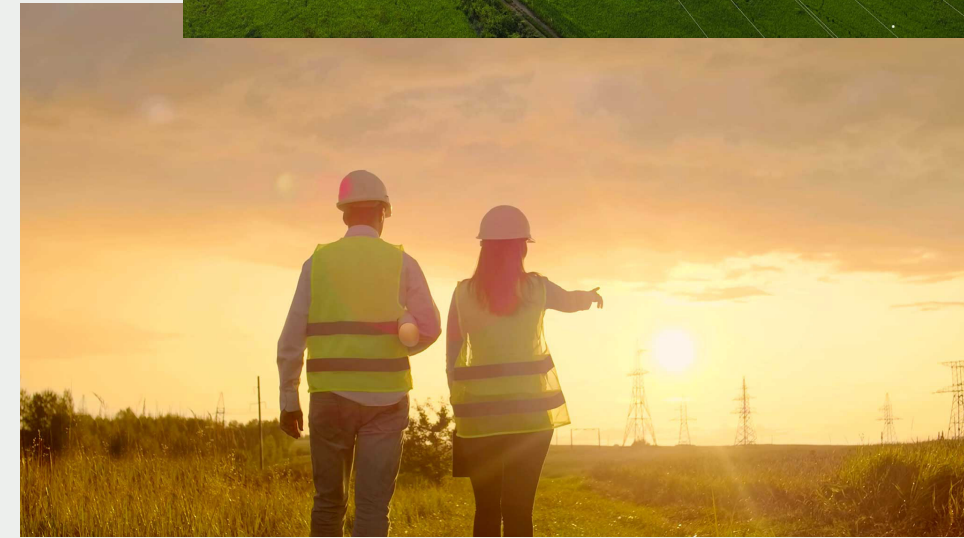
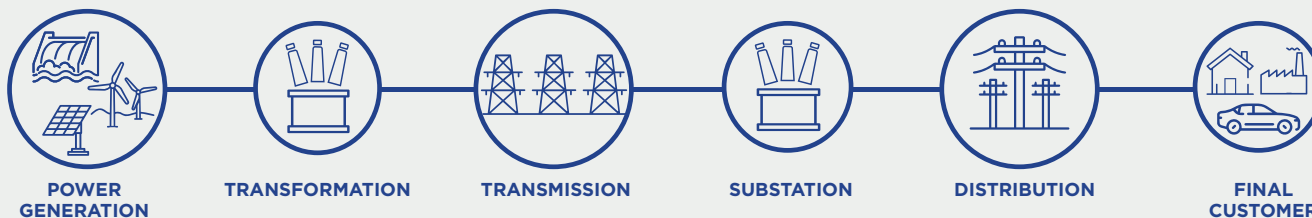


THE **FUTURE** OF ENERGY IS **NOW** AND IT'S **EXTRAORDINARY**

THE CRUCIAL ROLE OF POWER TRANSMISSION

Our vision of a sustainable future starts with an eco-friendly portfolio of high voltage products and systems, brought to you by our dedicated team of global innomakers.

Our mission is to support our customers, from power generation through transmission and distribution to the electricity consumers, in their transition to clean energy and a greener world.





Get in touch:

Contact our experts via email
sales@trench-group.com



Trench Group
www.trench-group.com

©Trench Group 2026. All right reserved.
Specifications are subject to change without notice

VISIT OUR WEBSITE

SCAN ME OR
[CLICK HERE](#)

