

# 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

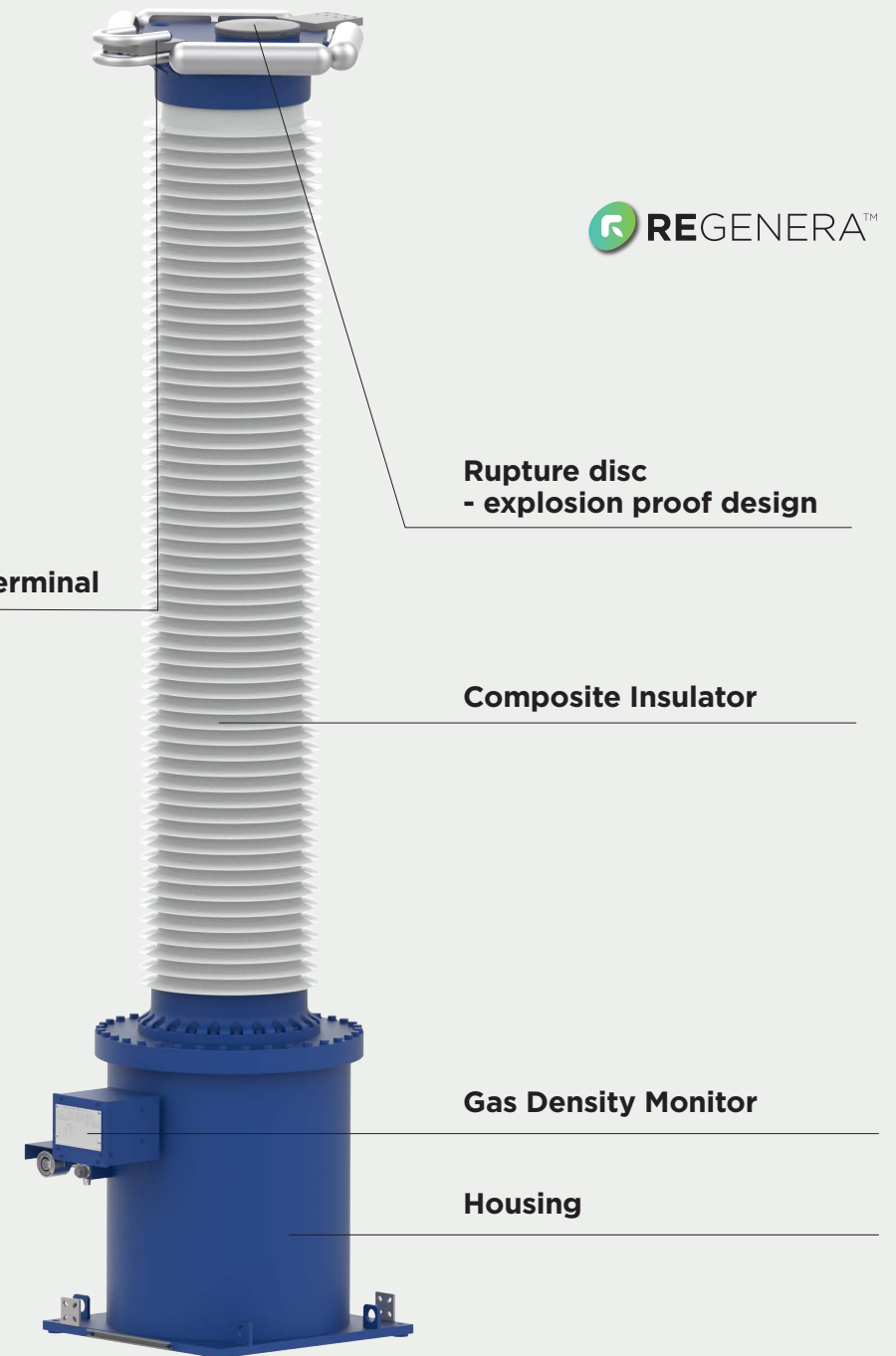
- For voltage levels up to 420 kV
- Clean air as insulation medium
- Fully type tested according to International Standards

## 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 our holistic approach to protecting ecosystems, fostering environmental harmony and promoting a circular economy.



# 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 CO<sub>2</sub> 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.



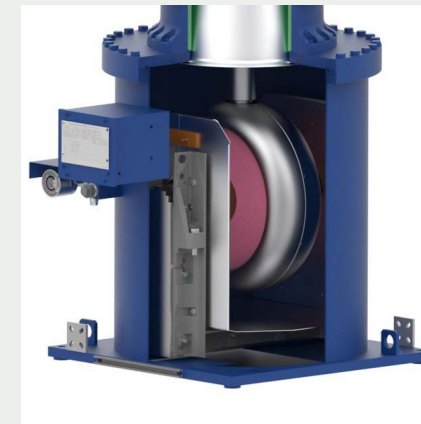
### RUPTURE DISK

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.



### 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.



### WINDING

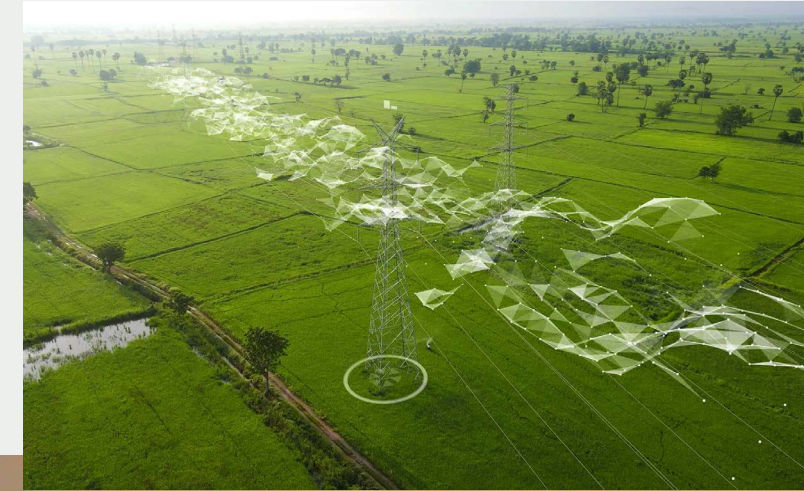
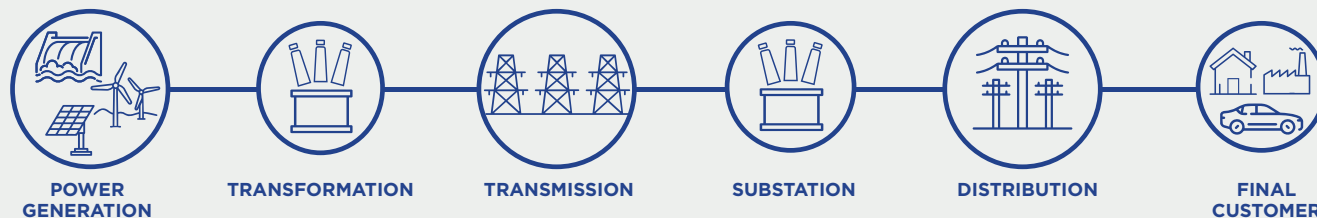
Optimized high voltage coil assures identical electric stresses, under both transient and steady state conditions.

# 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](mailto:sales@trench-group.com)



**Trench Group**  
[www.trench-group.com](http://www.trench-group.com)

©Trench Group 2024. All right reserved.  
Specifications are subject to change without notice

VISIT OUR WEBSITE

SCAN ME OR  
[CLICK HERE](#)

