

# ECO FLUID COMBINED TRANSFORMER

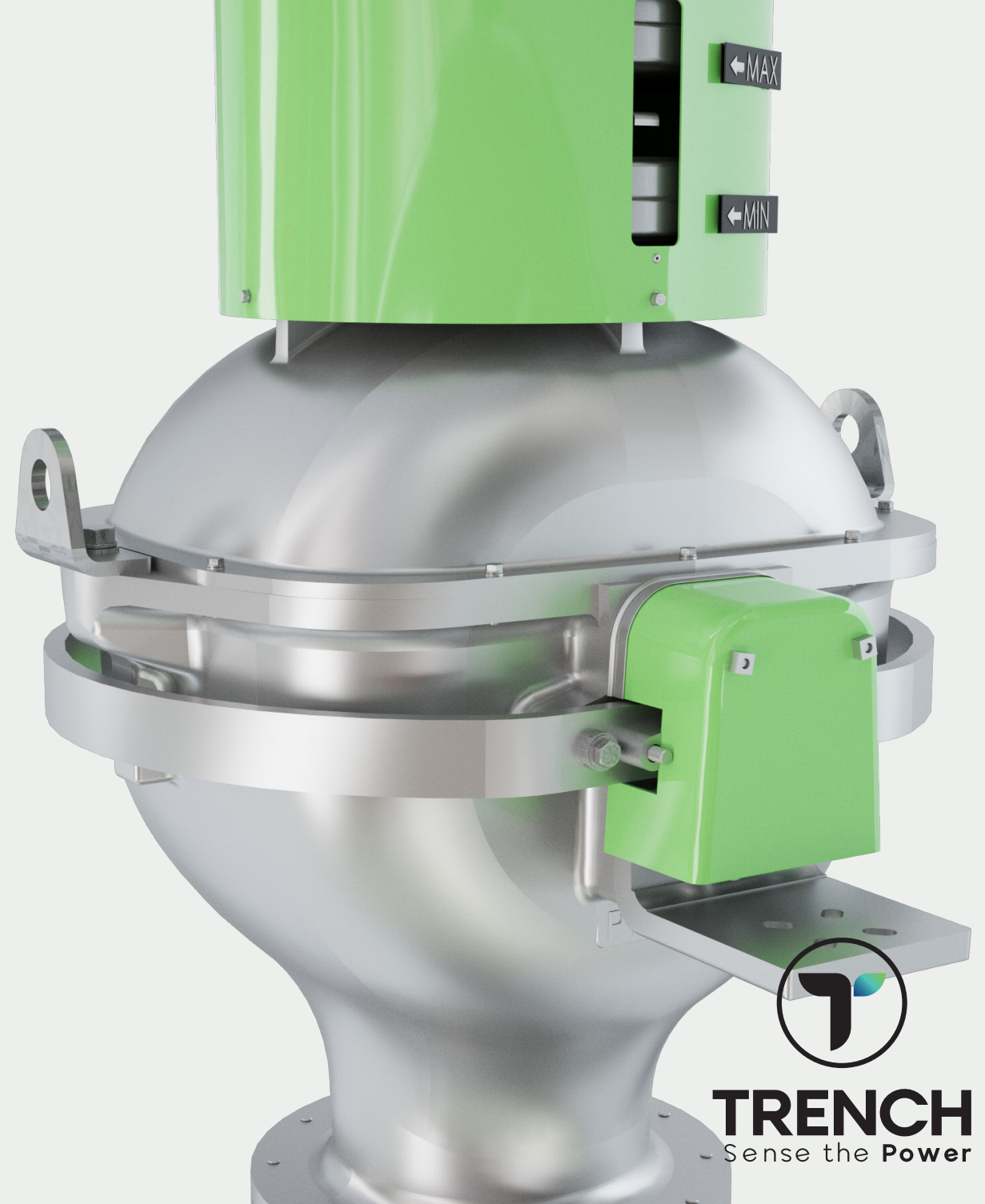
145 KV / 5000 A

Trench's Eco Fluid Insulated Combined Transformers are used to **convert high-line currents** into standardized lower values that are safer and much easier to measure.



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TRENCH GROUP INSTRUMENT TRANSFORMER | ECO FLUID COMBINED TRANSFORMER



**TRENCH**  
Sense the Power

# ECO FLUID COMBINED TRANSFORMER

## CHARACTERISTICS

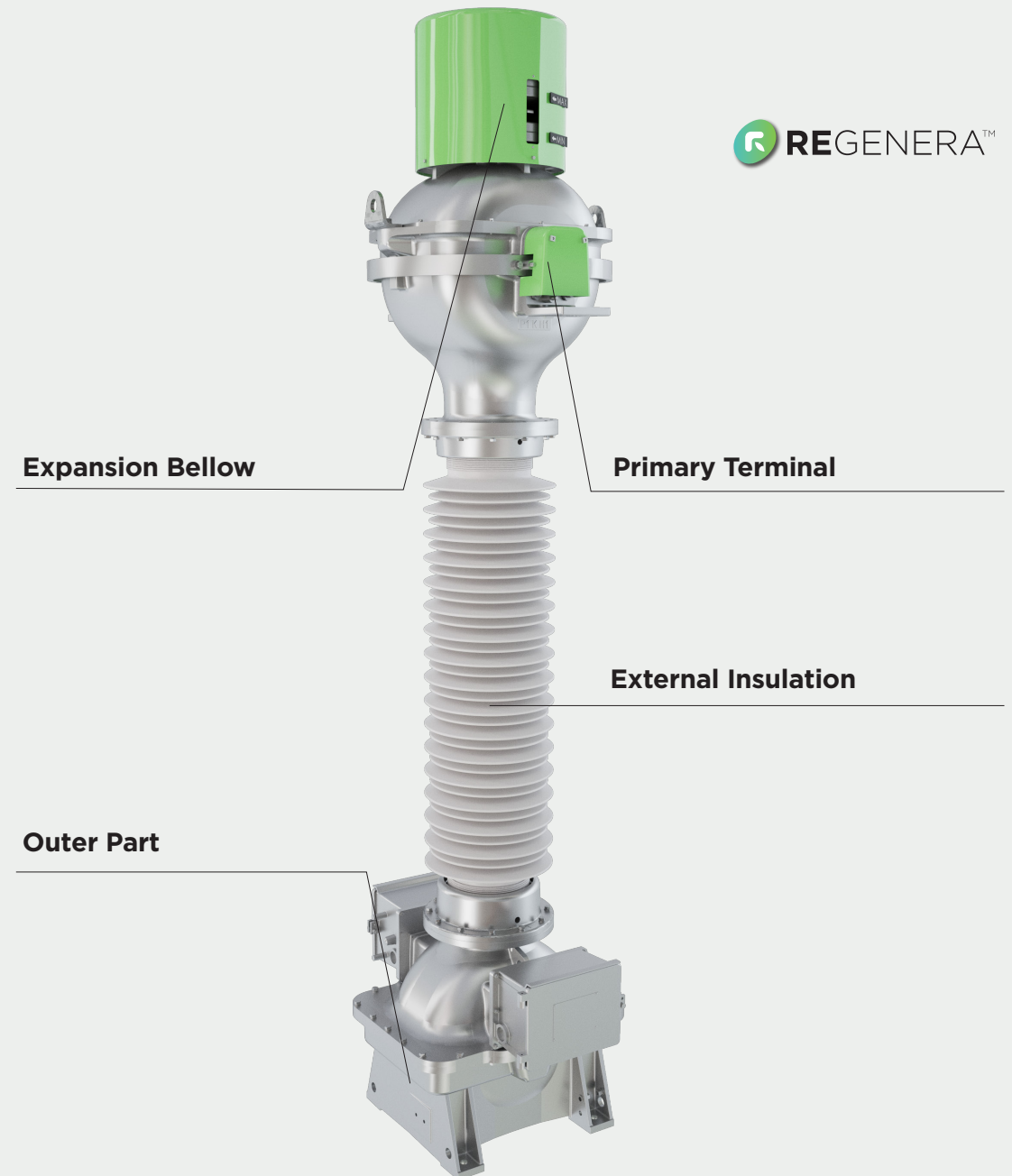
- For Voltage levels up to 145 kV
- For primary currents up to 5000A
- Paper – Ester internal insulation

## GENERAL

- Replacement for equivalent mineral oil – filled products – thanks to the same dimension
- Water protection areas
- Underground substations

## SUSTAINABILITY

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



# MAIN FEATURES

Eco Fluid CVTs: the perfect combination of sustainability, safety, and reliability



## Environmental

The use of ester as an insulator reduces the risk of environmental damage. The fluid is biodegradable according to OECD 301, improving the environmental balance throughout the product life cycle.



## Proven Design

Trench's Eco Fluid Combined Transformers are based on a globally established insulation medium with many years of proven performance.



## Improved Operational Safety

The higher flashpoint of the ester increases the fire safety of both the IT and the appliance as a whole.



## High Voltage Insulation

High-quality paper and an ester liquid are used to create high-voltage insulation, with fine graded bushings optimising the electric field inside and outside the product.



## Hermetically Sealed

In all operating conditions, a stainless steel base bellow allows the liquid volume to change and the internal pressure to remain the same as the ambient pressure.



## Modular Design

Modular design eliminates the need for a wide range of components.

## PRODUCT APPLICATIONS

# INSIDE THE PRODUCT

## Main components of the Eco Fluid Combined Transformer

Trench's Eco Fluid Combined Transformers are the safe solution to meet the increasing demand from power utilities for environmentally friendly, cost-effective and maintenance free high voltage systems.



### PRIMARY WINDING

To meet customer requirements, the primary winding can be configured in a number of different ways.



### INSULATOR

Depending on the application, the customer is free to choose between a porcelain or composite insulator.



### SECONDARY

The secondary signals for current and voltage are transmitted to the secondary boxes located on the underside of the Eco Fluid Combined Transformer.



### IMPREGNATION PROCESS

A specially developed and optimised drying and soaking process is used in the production of each Eco Fluid Combined Transformer.

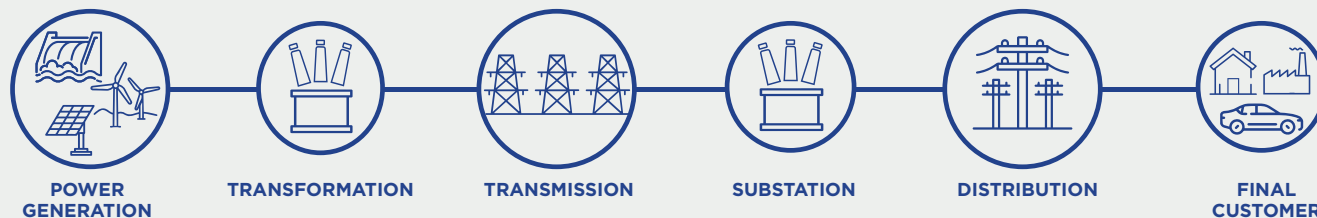


# THE **FUTURE** OF ENERGY IS **NOW** AND IT'S **EXTRAORDINARY**

## 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:**

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