

ECO FLUID CURRENT TRANSFORMER

550 kV / 5000 A

Current Transformers utilizing **eco-friendly insulation fluid** provide accurate and reliable current transformation (measurement), merging proven safety with eco-friendliness.



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TRENCH GROUP INSTRUMENT TRANSFORMER | ECO FLUID CURRENT TRANSFORMERS



TRENCH
Sense the Power

ECO FLUID CURRENT TRANSFORMER

CHARACTERISTICS

- For Voltage levels up to 550 kV
- Rated primary current up to 5000 A
- Paper - ester internal insulation

APPLICATIONS AREAS

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

SUSTAINABILITY

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

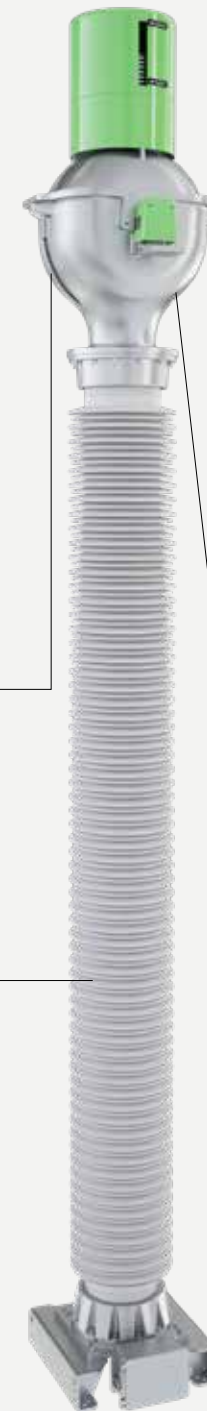


Cores/windings are located at the top of the current transformer [head type]

Bar-type primary conductor allows higher short-circuit currents and prevents a large voltage drop across the primary winding

The outer part is made of aluminum or another corrosion-resistant material, e.g., stainless steel

External insulation made of porcelain or composite insulator



MAIN FEATURES

Eco-sustainable and proven design



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 Current Transformers are based on a globally established insulation medium technology with many years of proven performance.



Improved operational safety

The higher flashpoint of the ester increases the fire safety of the CT.



High Voltage Insulation

High-quality paper and an ester liquid are used to create high-voltage insulation, with fine-graded bushings optimizing the electrical 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 Current Transformer

Secure, environmentally friendly and maintenance-free! Modular Ester CTs reduce time and cost by increasing reliability and simplifying the replacement of mineral oil-filled CTs.



PROVEN DESIGN

Eco fluid CTs are manufactured to our world renowned and tested design. Thousands of CTs are in use around the world often in harsh environments fully satisfying the requirements of our customers.



ROUTINE TESTS

The company's test laboratory carries out all standard tests in accordance with international standards.



INSULATOR

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



SEALED CONSTRUCTION

The use of metal bellows to regulate the liquid level prevents oxidation of the fluid.



EXTERNAL DIMENSIONS

Ester CTs are the same size and weight as the mineral oil-insulated CTs listed in our product catalog. Replacement with ester insulated transformers is therefore very quick and easy.

ECO FLUID LINE

Infusing green essence into innovative technology

OUR SIGNATURE ECO FLUID LINE

With our complete portfolio of Trench Eco Fluid Instrument Transformers up to 550kV we are offering a **high-performance solution** that meets the **highest safety standards** for the low-carbon power grid of the future.

DISCOVER OUR COMPLETE LINE



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ECO FLUID
COMBINE
TRANSFORMER



ECO FLUID INDUCTIVE
VOLTAGE TRANSFORMER



ECO FLUID CAPACITIVE
VOLTAGE TRANSFORMER

ECO FLUID LINE

KEY FEAUTERS

A pioneering, eco-friendly insulation medium composed of biodegradable fluid increases eco-performance during the product lifecycle.



NO POLLUTION HAZARD

No pollution Hazard during manufacturing, testing, and service.



ENHANCED SAFETY

The higher flashpoint of the fluid increases the fire safety of the Instrument Transformer.



REDUCED LIFECYCLE COSTS

30-year maintenance free design.



EASY REPLACEMENT

Eco Fluid Instrument Transformers are the same size and weight as the mineral oil-insulated ones in our product catalog. Replacement with Eco Fluid insulated transformers is, therefore, rapid and easy.



PROVEN DESIGN

Trench Eco Fluid Instrument Transformers are based on our conventional and proven insulation, which has been well-known worldwide for a long time.



ENVIRONMENTAL FRIENDLY SOLUTION

The insulating fluid is classified as "readily biodegradable" according to OECD 301, adding an increased eco-performance during the whole product lifecycle.

TESTIMONIALS

OUR REFERENCES

“ Empowering a greener future with eco-friendly Ester fluids!

Embracing our holistic REGENERA™ concept, we say hello to a greener, cleaner energy network. By switching to a biodegradable and low-toxicity insulation with Ester fluids, we can boost product performance while reducing our carbon footprint at the same time!

Just recently, our factory Trench Italia has accomplished the next milestone by winning the contract to supply a full bay of ester-insulated current and voltage transformers 170 kV for a windfarm located in Potenza province, South Italy.

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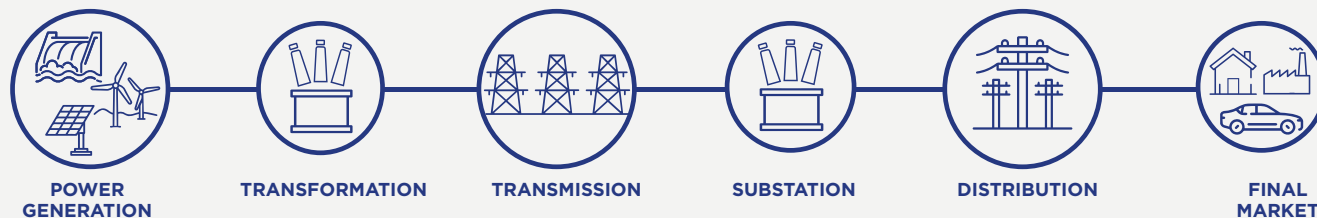


THE **FUTURE** OF ENERGY IS **NOW** AND IT'S **EXTRAORDINARY**

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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Talk with an expert

Book a free slot
for a one-to-one session
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