

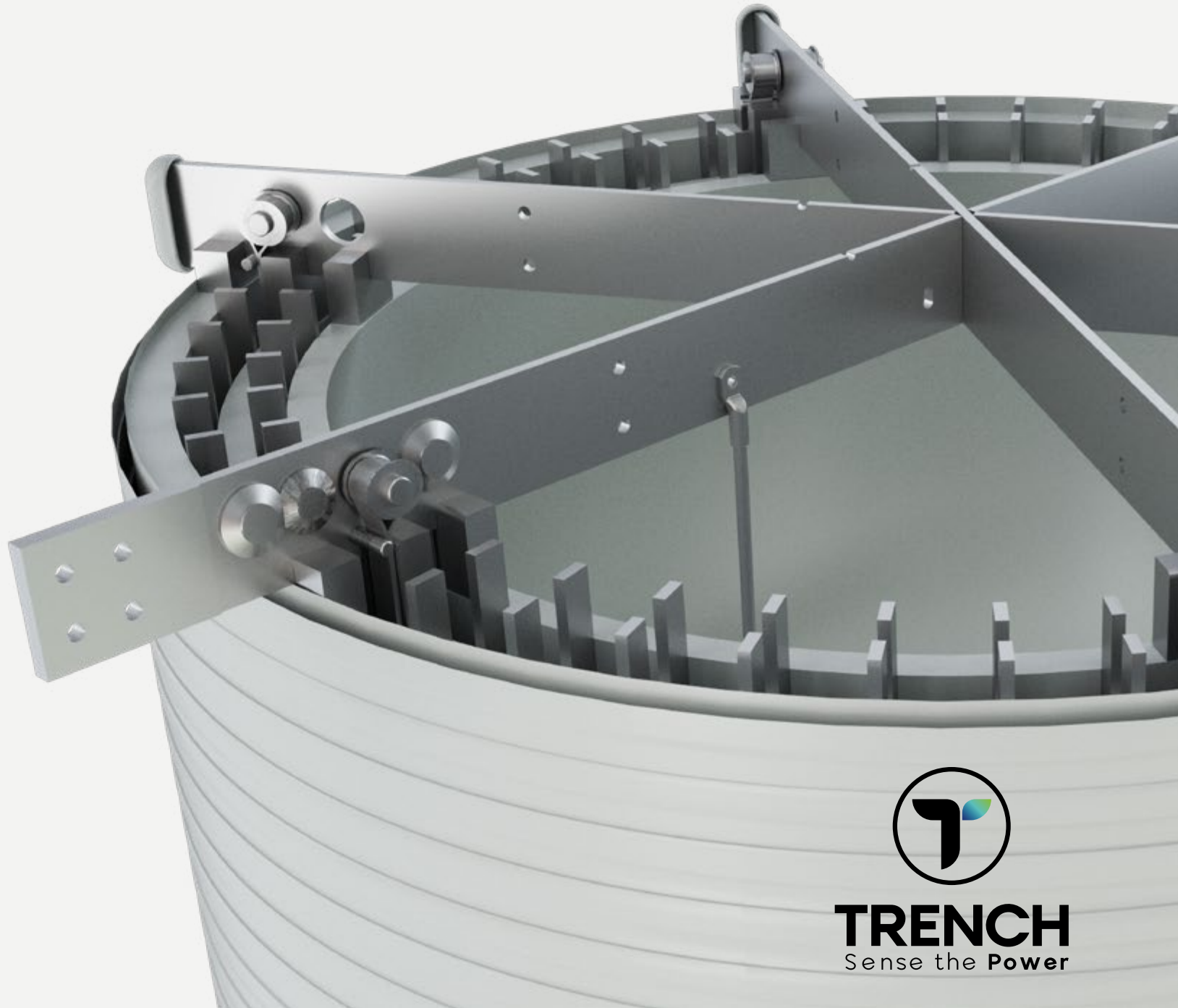
# COILS

Discover our  
complete portfolio



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TRENCH GROUP | COILS COMPLETE PORTFOLIO



**TRENCH**  
Sense the Power

# COILS

Discover our life-changing products where innovation meets sustainability.

## OUR SIGNATURE PRODUCTS

They represent our most advanced and reliable solutions designed to **support our customers in their transition to a greener future.**

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

DISCOVER OUR COMPLETE LINE



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REGENERA™

ARCC WILDFIRE  
MITIGATION SYSTEM



REGENERA™

AIR CORE  
REACTORS



REGENERA™

ECO FLUID ARC  
SUPPRESSION COIL

# OUR UNIQUENESS

## DISCOVER OUR MOST ADVANCED PORTFOLIO OF TRENCH COILS

With over 100 years of experience manufacturing Coils, **we are at the forefront of transforming the industry**, with cutting-edge, eco-friendly technologies based on our proven Trench design.



### Innovation

Innovation at the core: we value the heritage over decades of design and manufacturing experience, and innovation drives us.



### Customized Solutions

Our reactors are designed with various technical and environmental benefits to meet our customers' specific requirements.



### Reliable Power Supply

Trench reactors ensure continuous power supply and increase the efficiency of the system.



### Testing

Our unique test facilities offer an optimal environment for precise measurements of sound levels and heat run tests, fully compliant with the latest standards.



# AIR CORE REACTORS SIGNATURE LINE

Your solution for efficient and reliable power transmission and distribution systems.

Our product range includes **Shunt Reactors** for reactive power compensation, **Series Reactors** for fault current reduction, and **specialized reactors for AC and DC** applications. We also offer **Line Traps** for seamless power line communications.

Experience unmatched reliability and safety with our **innovative, maintenance-free designs**.

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REGENERA™

AIR CORE REACTOR  
FOR HVDC



REGENERA™

LINE TRAPS



REGENERA™

AIR CORE SHUNT  
REACTORS

# MAIN FEATURES

Unleashing a new level of safety and reliability



## Enhanced Reliability

Our reactors offer superior reliability by maintaining a consistent, efficient power supply.



## Environment, Safety, and Maintenance

The air-core design eliminates the need for oil insulation, reducing the risk of fire, oil leakages, and maintenance requirements.



## Modular Design

Our Air Core Reactors are designed with various technical and environmental aspects in mind and are tailored to meet our customers' specific requirements.



## Innovation at the Core

We value the heritage over decades of design and manufacturing experience, and innovation drives us.



## Testing

A proven design and extensive manufacturing can only be verified through the most rigorous testing. Our unique test facilities offer an optimal environment for precise measurements of sound levels and heat run tests, among other types of routine tests, all fully compliant with the set standards.



## Global Presence

Our North American and European facilities make our Air Core Reactors accessible to our customers worldwide through our comprehensive sales network.

# ECO FLUID SIGNATURE LINE

Arc Suppression Coils (ASC) effectively compensate for capacitive earth fault currents, raising the bar for safety measures.

Trench's **Advanced Residual Current Compensation (ARCC)** system compensates for ground-fault currents, providing the stability and reliability that utilities require to operate electricity networks. Using eco-fluid, we take another step towards a more sustainable world.

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ECO FLUID ARC  
SUPPRESSION COIL

# MAIN FEATURES

Increased eco-performance during the whole product lifecycle.



## Eco-friendly Solutions

The insulating fluid is classified as “readily biodegradable”, according to OECD 301.



## Environmental Impact

No pollution hazard during manufacturing, testing, and service.



## Design

Trench Eco Fluid ASC and ARCC are based on our legacy of resilient and reliable design.



## Enhanced Safety

The high flashpoint and fire points of the fluid reduce the fire risks.



## Reduced Outage Costs

Trench Arc Suppression Coils provide effective compensation of the earth fault current, handling earth faults safely without any outage cost to our customer.



## Reliability with Sustainability

Our products using Eco Fluid provide the same reliability to the power networks in an environment-friendly avatar.



# CONVENTIONAL FLUID SIGNATURE LINE

Specifically designed to enhance the safety and efficiency of your power systems.

The **Arc Suppression Coils (ASC)** effectively compensate for capacitive earth fault currents, raising the bar for safety measures.

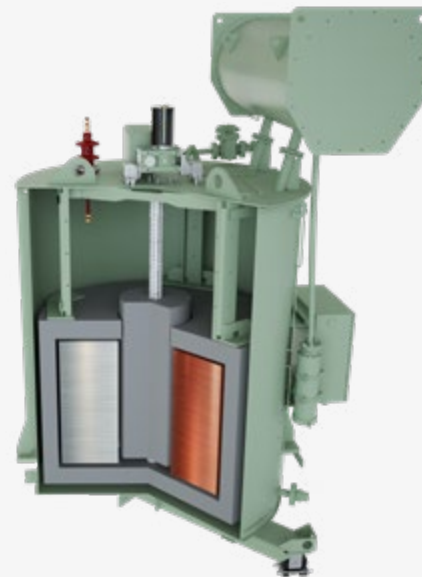
Trench's **Advanced Residual Current Compensation (ARCC)** system compensates for ground-fault currents, providing the stability and reliability that utilities require to operate electricity networks.

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ARC SUPPRESSION COIL



REGENERA™

ARCC WILDFIRE  
MITIGATION SYSTEM



# MAIN FEATURES

Unleashing a new level of safety and reliability



## Expertise

The resilience and reliability of Trench Conventional Fluid ASC have solidified over decades of design and manufacturing experience.



## Innovative Wildfire Protection System

The Trench ARCC system has proven its outstanding capabilities in preventing line-to-ground fault-initiated wildfires.



## Special Design

Trench Arc Suppression Coil has a built-in earthing transformer, the "Neutral Earthing Aggregate."



## Enhanced Safety

Trench Arc Suppression Coil provides enhanced equipment protection and people's safety.



## Engineering and Design

Trench Conventional Fluid ASC and ARCC fulfill project-specific or standardized solutions depending on customer specifications.



## Global Application

Available for 50Hz / 60Hz applications.

# ELECTRONICS SIGNATURE LINE

Trench offers **advanced Earth-Fault Compensation and Fault Detection equipment** designed to enhance safety and availability.

These systems adjust Arc Suppression Coils, locate faulty feeders, and protect capacitor banks, **ensuring reliability even under severe conditions.**

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REGENERA™

ARCC WILDFIRE  
MITIGATION SYSTEM



EARTH-FAULT  
DETECTION SYSTEM



CAPACITOR  
PROTECTION RELAY

# MAIN FEATURES

Trailblazing systems for a safer and greener world



## Reliability and Performance

These robust systems ensure exceptional reliability and performance, even in challenging conditions.



## Universal Devices

Both EFC and EFD devices can be used to control any make of Arc Suppression Coil.



## High Modularity

Trench Controller and detection devices are highly modular regarding mounting location and input-output device connections.



## Software Options

Our devices offer various software features providing efficient control of different equipment.



## Easy Operation

Our electronic devices with built-in displays are easy to handle and operate.



## One-Stop Shop

Trench offers a complete earth fault protection system, including Arc Suppression Coils, Detection, and Controller.

## TESTIMONIALS

# OUR REFERENCES

“ Empowering a greener future with air cooled reactors!

Embracing our holistic REGENERA™ concept, we say hello to a greener, cleaner energy network. By utilizing air for cooling and isolation we can boost product performance while reducing our carbon footprint at the same time!

Our latest 420 kV Air Core High Voltage Shunt Reactor Bank (HVSr) from Trench Austria has been implemented into Transmission Grids in Namibia. It is one of the first of its kind worldwide and the first ever installed in Africa.

”

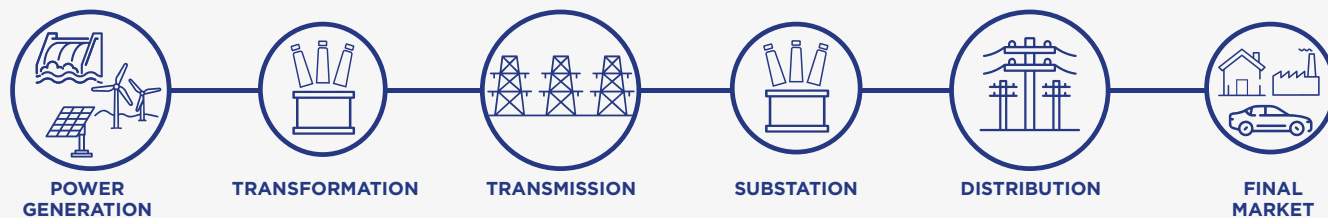


# THE **FUTURE** OF ENERGY IS **NOW** AND IT'S **EXTRAORDINARY**

## 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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**Trench Group**  
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