Future Requirements to Electrical Equipment
Enviromental Sustainability and Digitalization

Reliable Power Supply
- Network availability
- Sustainability
- Safety
- HVDC - Transmission

Environmental Protection
- Water protection (oil leakage)
- Climate protection (CO2 emissions)
- Alternative insulating gases to SF6 in order to reduce its deployment and emissions during manufacturing

Economic Efficiency
- Decentralized power supply
- Life cycle cost (investments, service, maintenance, recycling)
- Digital Substation

Trench is leading the shift to reduce the presence of SF6 in the instrument transformers by proposing totally SF6 free transformers up to 245 kV.
Long term sustainability and No environmental compromises.

Our portfolio of CLEAN AIR Instrument Transformers is now tested and available for worldwide applications.

PRODUCT DESIGN

Complete portfolio available from 72 to 245 kV:
current transformers, voltage transformers and combined current-voltage transformers

No environmental compromises and never subjected to gas taxation.

Internal insulation is made by clean air, thus:

F-gas free insulation with lowest requirements on training, transport, installation, operation, reporting and recycling

C-gas free with no risk of C-decomposition
No gas recycling required

CUSTOMER BENEFITS

ENVIRONMENTAL BENEFITS
- No Global Warming Potential: GWP = 0
- No Ozone Depletion Potential: ODP = 0

TECHNICAL BENEFITS
- Based on the proven SF6 instrument transformer designs
- Suitable for low temperature applications at -50°C and below
- Maintenance free during a long lifetime of more than 30 years
- No reporting or emission costs during operation and recycling:
  - No SF6- or F-gas tax or future risk
  - No CO2 emission compensation or future risk
  - No F-gas documentation or reporting costs
  - No risk of F-gas gas recycling costs
PRODUCT STRUCTURE

- Overpressure Safety device
- Voltage Transformer
- HV Terminal
- Current Transformer
- Composite Insulator
- Base Frame
- Secondary Terminal Box