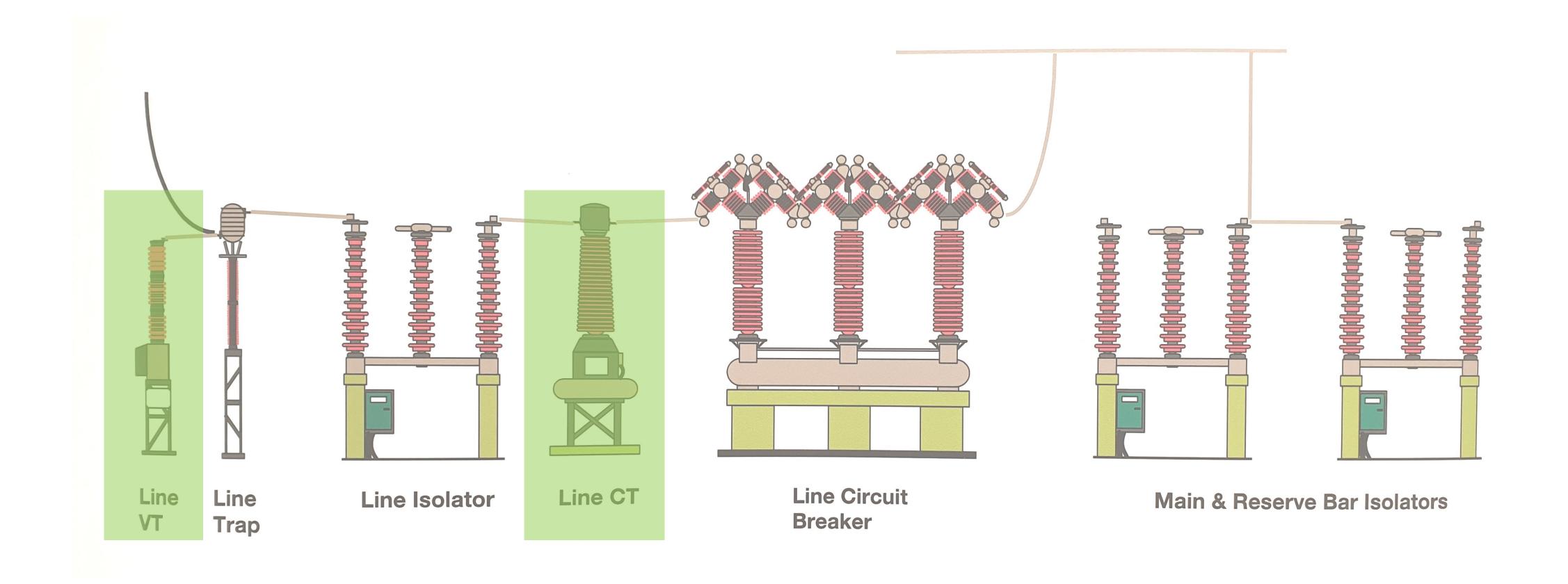
## Instrument Transformers





environment

Instrument Transformers (ITs) are typically used on the Electricity Transmission System for fault detection & protection operation, but also for accurate metering purposes

National Grid has circa 20,000 Instrument transformers installed on the electricity transmission system

Current Transformer (CTs)

Voltage Transformers, either a Wound Voltage Transformer (WVT) or a Capacitor Voltage Transformer

Types of insulation include:

SF<sub>6</sub>

Oil



Detect a fault and trip a Circuit

**Impact on Reliability** 

Consequential—Risk Management Hazard Zones prevent work near to ITs deemed to be at risk

Catastrophic failure of Instrument
Transformers