



High Voltage Condition Monitoring

Sector(s): Electronics, Sensors and Photonics, Energy and Renewables, Engineering and Manufacturing

About Opportunity

Transformers play a key role in the transmission and distribution network, getting power from source to end-user, so any fault is critical and needs to be identified before any damage to the transformer or surrounding components leads to a power blackout or catastrophic failure.

Glasgow Caledonian University (GCU) has developed novel, patented technology that allows multiple parameters relating to the condition and performance of HV transformers to be measured simultaneously.

The technology provides real time information on the major faults and electrical conditions which will affect the reliability of a HV transformer. This information is critical to power companies who need to make informed business decisions about routine maintenance and infrastructure upgrades.

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The technology has been developed into a commercial system, 'Powertracker', which has been rigorously field tested.

Key Benefits

- Simultaneous measurement of multiple parameters
- Accurate, real-time information
- Ability to continuously monitor transformer performance with no impact on operation
- Remote monitoring and automatic configuration

Applications

- Condition monitoring diagnostic instrument manufacturers
- Condition monitoring service companies
- Utility companies
- Asset Managers

IP Status

The technology is protected by a family of patents in Europe, USA, Canada, India and China. The University welcomes contact from organisations interested in developing, licensing or exploiting this technology.



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