

SF₆ Thermal Imaging



Commercial Engineering Services

National Grid has many years of experience working with and handling SF₆ gas (Sulfur Hexafluoride) where it is used as an electrical insulator in high voltage substation equipment.

SF₆ has approximately 23,900 times the global warming potential compared with CO₂. Therefore SF₆ leakages are closely monitored under the F Gas Regulations.

We have invested in equipment that allows us to pin-point SF₆ leaks using thermal imaging technology. This enables us to make strong recommendations as to where closer monitoring and repairs may be required.

Our fully trained engineers are able to attend your site to carry out leak detection surveys, either to detect a specific leak, or to survey entire Gas Insulated Switchgear (GIS)

substations. Bespoke reports are then created and tailored to your requirements. These reports identify the location of your leaks and offer recommendations for rectification.

We can also assist our customers in a number of other services relating to SF₆.

SF₆ Gas Handling

- Removal of SF₆ for maintenance using specialist gas handling equipment
- Temporary storage of SF₆ during maintenance works

SF₆ Top-ups

- Technology based automatic top-ups
- Regular site visits for manual top-ups

SF₆ Training and Consultancy

- Accredited SF₆ gas handling training for operators

High Voltage Engineering Specialists

A unique combination of experience and expertise

Asset Monitoring



Asset Maintenance





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