



SCOPIOUS

SOLUTION PAPER

Sustainable Energy Management Enabled by Scopious IoT Environmental Monitoring

Overview

Energy networks and facilities demand near real-time oversight of performance, safety, and resource efficiency. Scopious provides live monitoring across substations, generation sites, and industrial systems—helping operators reduce energy waste, detect faults, and optimise load management.

Needs:

Operators must balance efficiency, safety, and system uptime while managing distributed assets, energy loss, and reporting across corporate and regulatory levels.

Solution:

Scopious delivers environmental and infrastructure data to support energy operations—whether optimising usage, managing distributed systems, or improving resilience.

Key Benefits:

- Improves system performance and uptime
- Enables proactive maintenance and fault detection
- Supports energy audits and ESG reporting
- Reduces operational and energy costs
- Enhances resilience through environmental oversight

Scopious for Energy Production

- Temperature and air flow monitoring in substations and switchgear
- Vibration and pressure sensing for generators or turbines
- Environmental alerts for overheating, condensation, or flood risks
- Load event and usage trend visualisation
- Integration with SCADA and asset management platforms
- Custom alerts and reports for maintenance, efficiency, or ESG goals

**Smarter
infrastructure.
Safer
operations.
Near real-time
visibility.**