



ACOUSTISCAN

Continuous acoustic monitoring for early detection of partial discharges

24/7 MONITORING

CONTINUOUS
SURVEILLANCE

EARLY PD DETECTION

PREVENTS
FAILURES

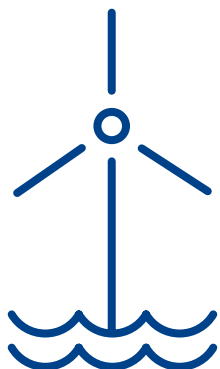
PATENT PENDING

EUROPEAN APPLICATION
SUBMITTED

VALIDATED TECHNOLOGY

UNIVERSITY
TESTED

RENEWABLES SOLUTION



ACOUSTISCAN is Omexom's continuous acoustic monitoring solution for medium and high-voltage assets, built on its proven SoundScanning technology. Permanently installed sensors detect partial discharges at electrical components of switchgears such as cable joints and insulation of busbars or b-links, before they escalate into arc flashes, equipment failures, or outages. Developed with SevenBel and validated at the University of Applied Science in Kiel (GER), it pairs 24/7 monitoring with expert analysis and maintenance recommendations, helping operators shift from reactive to predictive, condition-based maintenance.



THE CHALLENGE

- Partial discharges are invisible but can cause insulation failure and arc flashes
- Unplanned failures result in costly outages, repair work and production losses
- Periodic inspections only offer a snapshot and can miss developing faults
- Offshore wind farms and substations need reliable, cost-effective condition monitoring



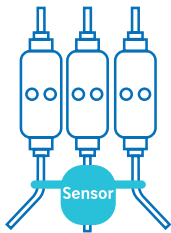
KEY BENEFITS

- Early detection of partial discharges before failure occurs
- Reduces unplanned downtime, repair costs and production losses
- Improves operational reliability and asset performance
- Provides actionable insights and maintenance recommendations
- Supports predictive maintenance and extends equipment lifespan
- Reduces environmental impact

THE SOLUTION THE ACOUSTISCAN APPROACH

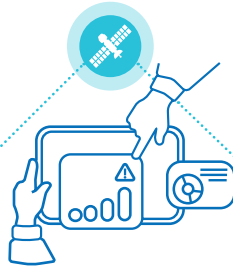
Monitor → Detect → Analyze → Prevent

Continuous Acoustic Monitoring



Sensors are installed near high-risk insulation components to continuously capture acoustic signatures associated with partial discharge activity.

Intelligent Data Transmission



Monitoring data is transmitted to Omexom specialists for analysis and condition assessment.

Expert Evaluation



Electrical engineering experts evaluate anomalies and provide recommendations before failures occur.



TYPICAL USE CASE: Offshore and onshore wind farm cable joint monitoring
| Offshore and onshore substations | High-voltage cable systems | Critical electrical infrastructure | Renewable energy assets requiring predictive maintenance

OMEXOM

For any questions regarding this solution, please contact:

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