



Power plant condition monitoring

Optimize your asset operations and maintenance strategy as our analytics solutions convert your data into actionable interventions which are proven to maximize availability, reduce maintenance costs and manage risk.

Our solutions

Our **SpheriCAL** software securely accesses your plant data via the **Uniper Cloud Connect** and uses asset analytics to convert it into actionable information to help prioritize, plan and execute an optimized asset O&M strategy.

Instead of reacting to failures, our **Virtual Analyst** and real-time **SMART-alerts** give you both the peace of mind and information you need to pro-actively plan maintenance, avoid failures and increase financial return.

Our O&M optimization services comprise:

- SpheriCAL ACM – Sphere Clustering Alarm Logic Advanced Condition Monitoring; online, real-time, anomaly detection, pattern recognition.
- Tiresias OLVMS – Online Vibration Monitoring Service.
- Production Support Portal – the home of actionable asset information.
- Machine learning – integrated systems providing specific recommendations.
- Dynamic operation – as owner operators we understand your business.

Benefits

Improve financial return:

- Avoid unplanned asset downtime caused by component failures. Improve the availability and reliability of your assets.
- Ensure a cost effective way to optimize asset maintenance strategies, engineering resource planning and spares planning – delivering a quick payback on your investment.

Optimize maintenance costs and risks:

- Prioritize the components that need maintenance and perform maintenance at the right time – and long before significant deterioration or failure occurs.
- Avoid the risk that maintenance activities don't finish on time, leading to unplanned asset unavailability.
- Avoid the risk of failing to deliver the contracted power output.

Manage risk:

- Avoid catastrophic failures and other failure events where repair is difficult and potentially dangerous.



References

Project	Scope of work	Location	Capacity
<p>Continuous monitoring of critical rotating plant</p> <p>50,000+ signals analyzed every 10 mins</p> <p>53 locations continuously screened across 10 countries</p> <p>Steam, CCGT, CHP, biomass, wind, hydro and industrial</p>	<p>Early fault detection, diagnosis, 24/7 call out provided by on-line vibration monitoring (OLVMS), remote vibration analysis.</p>	<p>Europe, Turkey, USA, Russia</p>	<p>25,000 MW</p>
<p>Continuous monitoring of process data</p> <p>50,000+ signals analyzed every 10 mins</p> <p>53 locations continuously screened across 10 countries</p> <p>Steam, CCGT, CHP, biomass, wind, hydro and industrial</p>	<p>Optimized asset maintenance strategies, early issue detection and diagnosis provided by Advanced Condition Monitoring (ACM), analyzing real-time data, extracting value from data using advanced algorithms.</p>	<p>Europe, Turkey, USA, Russia</p>	<p>25,000 MW</p>
<p>On site support services</p> <p>CCGT, gas, coal and industrial</p>	<p>Consultancy on optimization of maintenance strategies, in-situ trim balancing of critical rotating assets, data driven investigations, periodic auxiliary plant vibration analysis, fault finding and diagnostics.</p>	<p>Europe</p>	