



Israel Electric

Machine Health and Smart Predictive Maintenance

for Maintaining Efficient Operational Continuity

In industrial plants, equipment integrity is a critical condition for operational continuity, maximum efficiency, and meeting production targets. Faults that develop in motors, pumps, compressors, and critical systems may lead to unplanned shutdowns, reduced output, and costs amounting to millions of dollars.

What is the problem we have learned to solve?

For decades, we have developed expertise in addressing the main causes of operational failures:

- Difficulty in identifying the development of faults before they erupt
- Maintenance based on generic schedules instead of focusing on the actual condition of the equipment

We close this gap through advanced monitoring, expert diagnostics, and condition-based maintenance.

What do we offer? End-to-end service »



Online Monitoring and Tracking

- Continuous monitoring of critical parameters using existing control systems
- Real-time data collection and analysis
- Detection of anomalies and delivery of targeted alerts



Expert Diagnostics

- Trend analysis of fault development in rotating equipment
- Integration of data from motors, pumps, compressors, and additional systems
- Detection of faults in instrumentation equipment

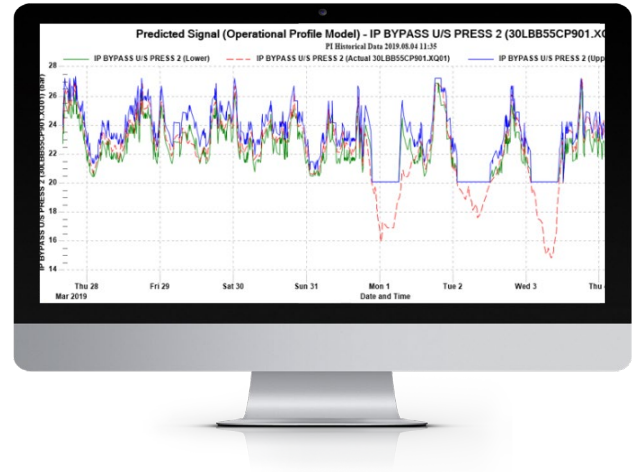


Performance Improvement and Maintenance Optimization

- Monitoring performance and efficiency
- Generation of periodic reports and professional discussion of findings
- Recommendations for preventive maintenance based on smart prediction

How do we do it?

- Professional support by subject-matter experts in areas such as vibration, performance, and thermodynamics
- Intelligent use of a wide range of parameters: current, flow rate, temperature, vibration, pressure, and more
- Operation of dedicated models and definition of dynamic alert thresholds
- Creation of a complete situational picture for decision-makers
- Use of existing systems and data without additional installations



Who is the service for?

Industrial plants operating continuous processes:

- Heavy industry and infrastructure: refineries, energy facilities, etc.
- Process industries: plastics, paper, concrete, etc.
- Water industry: pumping, desalination, wastewater treatment, etc.
- Food and beverage: food plants, beverage production

Monitored equipment:

Motors, pumps, compressors, fans, turbines and micro-turbines, cooling and pumping systems.

Why us?

We combine decades of experience, a diverse engineering team, and advanced monitoring systems that enable:



Extension of equipment lifetime



Reduction of unplanned shutdowns



Operational continuity



Reduction of maintenance and repair costs



Data-driven decision making



Smart, forecast-based management