

TurbineIQ (PowerGen) Solutions Ltd

Full Service List

- 1. Gas Turbine Installation and Commissioning**
 - Full installation of gas turbines at power plants or industrial sites.
 - Integration of turbines into existing systems and infrastructure.
 - Pre-commissioning and commissioning of new or repurposed turbine units.
 - Startup and Operational verification
 - Scheduled inspections to ensure turbines operate at peak performance.
 - Preventive maintenance to reduce unplanned downtime.
 - Instrumentation calibration, full train alignment and borescope inspections.
 - Performance monitoring and diagnostic checks.
- 2. Turbine Performance Optimisation**
 - Performance testing and troubleshooting to identify inefficiencies.
 - Modifications to improve turbine efficiency, reliability, and emissions.
 - Upgrade services to enhance turbine output for fuel efficiency.
 - Combustion tuning and calibration for optimised power output.
 - Restoration of turbine performance through repairs or component upgrades.
- 3. Diagnostic and Analytical Services**
 - Grid Code testing support to attain National Compliance.
 - Grid monitoring and analysis for operational deviations.
 - Detailed failure analysis and root cause investigations.
 - Diagnostics for turbine malfunctions, including control system and electrical testing.
- 4. Control Systems and Automation Support**
 - Installation and calibration of turbine control systems.
 - Integration with automation systems for optimized turbine operation.
 - Troubleshooting and repair of turbine control panels, sensors, and instrumentation.
 - Software updates and configuration adjustments for turbine control systems.
- 5. Upgrades and Modernisation (Using 3rd Party Vendor collaboration)**
 - Retrofit and upgrade advice to extend turbine life and improve performance.
 - Implementation of advanced technologies such as digital controls or condition-based monitoring.
 - Modernisation of older turbine systems to meet current efficiency, emissions, and reliability standards.
- 6. Emergency and Unscheduled Repair Support**
 - Rapid response for emergency support due to unexpected turbine failures or malfunctions.
 - Services for critical turbine failures affecting power generation.
 - Temporary repair solutions for quick restoration of turbine functionality.
- 7. Training and Technical Support**
 - On-site training for plant operators on turbine maintenance and operation.
 - Technical support for troubleshooting and resolving operational issues.
 - Scheduling support for Installation, Commissioning and Maintenance events.
- 8. Field Services**
 - On-site turbine maintenance and inspection services.
 - Remote and on-site troubleshooting and diagnostics.
 - Emergency response teams for urgent repair work.
- 9. Safety and Compliance**
 - Ensuring compliance with regulatory requirements and safety standards.
 - Conducting safety audits and risk assessments.
 - Ensuring adherence to health, safety, and environmental (EHS) protocols during maintenance and operations.
- 10. Decommissioning Services**
 - Safe decommissioning of turbine units at the end of their lifecycle.
 - Relocation, recycling and repurposing of turbine parts where applicable.