

# Power Generation

Leverage Asset Intellect to support reliable, efficient, and sustainable energy production from your thermal, hydro, geothermal, wind, solar, and nuclear sources.

## Visualize, manage, and optimize your operations in a single pane of glass.

- ✓ Drillable and actionable insights
- ✓ Enhanced data quality and governance
- ✓ Improved safety and compliance
- ✓ Enterprise-wide visibility



## Solutions with you in mind

### Alarm Management

Gather, analyze & manage your DCS and/or SCADA alarms against a Master Alarm Database, while aligning to ISA TR 18.2 alarm management standards.

### Visualization

Combine time-series, historian, SAP, and maintenance data to visualize generation sources. Use heatmaps to analyze and drill into assets, alarms, and emissions.

### Process Safety

Gain visibility into the status of safety-critical equipment status. Integrate data to gain insights into the layers of protection to prevent and mitigate process-related hazards.

### Shift Management

Manage shift handovers with logbooks, task management, reporting, and more. Automate data capture and use flexible forms for tracking and assigning tasks.

### Operator Rounds

Eliminate paper-based errors with flexible forms, schedule maintenance, and perform inspections easily. Asset Intellect supports resource allocation and tasks.

### Condition Monitoring

Calculate asset health and risk scores in real-time from SAP, Maximo, and more. Monitor vibration data, and view asset condition & performance in a single view.

## What sets us apart

### Configuration not coding

- » Access via mobile devices or tablets for easy on-site data entry and real-time dashboard viewing.
- » Automatically capture frequency events, add real-time comments and information, and overlay high & low resolution historian data with event and IED data.
- » Layered spatial mapping through ArcGIS. Interconnect data from the map to data sources such as SQL databases, APIs, and documents in real-time.

### Enterprise scale

- » Executives: Executive dashboards combine market data, with a concise view of operations, revenue and downtime.
- » Reliability Managers: Optimize workflow with work permits, daily operating instructions, and process safety.
- » Performance Engineers: Access performance monitoring tools to analyze KPIs such as efficiency, output, and demand.
- » Field Operators: Gain real-time monitoring, remote control, and alerts for equipment performance.

### Your operations in one place

- » Aggregate your CMMS, historian data, Maximo, IoT, and SAP data in one view to improve predictive maintenance, optimize asset management, and predict failures.
- » Analyze market trading data. Monitor real-time data from CMMS, plant historians, and Asset Management systems. Drill into generation forecasts, demand, and capacity.
- » Calculate and automate downtime and OEE via your data historian. Use flexible and configurable web-based entry and reporting.

### Highly flexible solution

- » Ensure asset reliability with advanced condition monitoring and production analysis. Proactively schedule preventative maintenance and inspections.
- » Wind turbine analysis: view alarms, and combine with plant historian data, Power BI, and SharePoint. Add maintenance notes, and identify and remediate poor performing assets.
- » Monitor environmental consent: receive automated potential breach warnings, and case management for out-of-consent generation.

## Some of Asset Intellect's Power Generation customers



"How to bring it all together was a challenge AGL had for many years...our logical choice when we were searching was Asset Intellect"

**Mark Faith**  
**Manager Operations Diagnostic Centre & Technology**  
**AGL**

