

# ADVANCED MONITORING & PREDICTIVE SOLUTIONS

## AMPS

## DRIVE PROFITABILITY WITH DATA INTELLIGENCE

Know what lies ahead and how to go forward. Our advanced monitoring and predictive solutions (AMPS) interprets data to deliver insights on improved plant availability, reliability, and profitability. Proven in both baseload and peaking applications, our AMPS service analyzes your operations across time to deliver data-driven action plans that make the best use of your resources.

Our AMPS technicians serve you from dual NERC-compliant remote operating centers (ROCs) with access to 24/7 engineering expertise. Here, we detect subtle anomalies before traditional alarms activate, so that you know about failures before they happen. Upon alert, your team receives a prescriptive advisory that covers event causation and fault diagnostics, which lets you procure repair parts and plan outages on your schedule.



## TOP ADVANTAGES

**ANTICIPATE EVENTS.  
TAKE ACTION.**

**DETECT EMERGING TRENDS**  
and pending faults

**ADDRESS FORECASTED ISSUES**  
based on prescriptive guidance

**SCHEDULE MAINTENANCE  
PROACTIVELY** for a planned outage

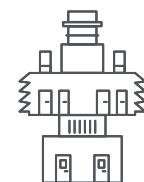
**REDUCE UNSCHEDULED DOWNTIME**  
and increase reliability

**VIGILANT****2**

REDUNDANT  
NERC-CERTIFIED  
ROCs

**SUPPORTIVE****24/7**

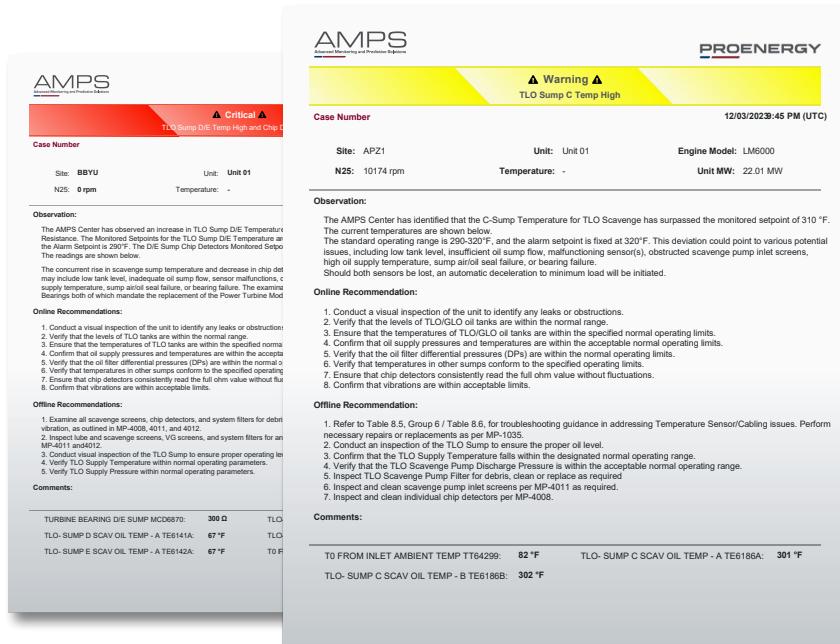
EXPERT  
ASSISTANCE

**EXPERIENCED****60+**

UNITS  
MONITORED

# ADVANCE OPERATIONAL PERFORMANCE WITH ANALYTICS

AMPS empowers your O&M teams with information on what issues may arise, how to prioritize activities, and when to allocate resources. We use machine learning and advanced pattern recognition technologies to create a trend analysis of your site's load, ambient, and operational profile. Combining a global record of facility performance and failures with real-time data from your site—including turbine, pump, compressor, and generator matched with speed, bearing temperature, vibration, and load—you receive an accurate and proactive roadmap to peak efficiency.



The screenshot shows a software interface for AMPS (Advanced Monitoring and Protection System). At the top, a yellow banner displays a critical warning: "Warning TLO Sump C Temp High". Below this, the "Case Number" is listed as "Case Number: APZ1". The "Site" is "BBYU", "Unit" is "Unit 01", "N2S" is "10174 rpm", "Temperature" is "-", and "Engine Model" is "LM6000". The date and time are "12/03/2023 4:45 PM (UTC)". The "Observation" section notes an increase in TLO Sump D/E Temperature Resistance. The "Online Recommendations" list 7 items for troubleshooting, including visual inspection and oil level checks. The "Offline Recommendations" list 6 items, including TLO Scavenge Pump Filter cleaning. The "Comments" section shows temperatures: TLO SUMP D SCAV OIL TEMP - A TE6141A: 67 °F, TLO SUMP E SCAV OIL TEMP - A TE6142A: 67 °F, TLO FROM INLET AMBIENT TEMP TT64299: 82 °F, TLO - SUMP C SCAV OIL TEMP - A TE6186A: 301 °F, and TLO - SUMP C SCAV OIL TEMP - B TE6186B: 302 °F.

## CONNECTION PROTECTION

### Cybersecurity

Keep your data protected and compliant with government and regulatory requirements. Our certified cybersecurity professionals provide endpoint detection and response (EDR) technology, security information and event management (SIEM) solutions, robust authentication and controls, and specialized firewall integration.

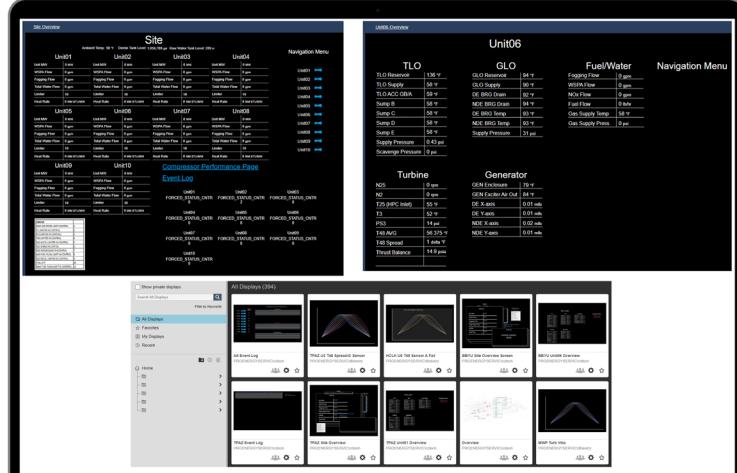
## ACTIONABLE INSIGHTS

### Prescriptive Advisories

Receive immediate notification of anomalies. AMPS operators dispatch either a Warning Advisory or Critical Advisory with detailed observations, as well as online and offline recommendations.

### Performance Reports

Stay at peak performance. Monthly meetings and reports provide a long-term view of asset performance and summarize plant operations, including key events, observed conditions, maintenance guidelines, and open cases.



The screenshot shows a computer monitor displaying operational data for Unit 06. The top left panel shows "Site Overview" with tables for Unit01, Unit02, Unit03, and Unit04. The top right panel shows "Unit06" with data for TLO (Turbine Oil), GLO (Generator Oil), Fuel/Water, and Generator. The bottom panel shows "All Displays (24x4)" with a grid of 24 smaller windows displaying various operational data and charts, including "All Event Log", "PHD Unit Overview", "DE Unit Overview", and "DE Turb Unit Overview".