

# Flexible and scalable power plant assessments

Optimize your energy operation for long-term plant performance using our tested and proven O&M processes



EthosEnergy, a leading operations and maintenance service provider with over 40 GW of O&M experience across 99 facilities in North and South America, Africa, Asia and Australia, offers a number of flexible assessment packages designed around the following drivers:

- Plant Performance and Efficiency
- Reliability, Availability, and Flexibility
- Risk/Operating Cost
- Safety, Environmental, and NERC Compliance

EthosEnergy uses a structured assessment process to benchmark new and existing facilities against EthosEnergy's standards and weights each process against a final percent score.

The focus of these assessments is to gauge where the facility or asset is with respect to the implementation and execution of fundamental plant processes.

## KEY BENEFITS



Compare and benchmark as-is processes against proven industry best practices



Identify gaps and opportunities for improvement that can substantially improve O&M metrics



A proactive approach to maintenance yields improved reliability and reduced annual cost

# EthosEnergy Assessment Packages

	Plant Performance (Output / Heat Rate / Efficiency)	Plant Reliability Availability Flexibility	Risk/Operating Cost	Compliance
Thermal Performance Assessment	✓	✓		
Capacity Testing	✓	✓		
Steam Path Audit	✓	✓		
Borescope Inspection	✓	✓		
Vibration Survey	✓	✓		
Electrical/Excitation System Assessment	✓	✓		
Generator Assessment Programs (Options #1 & #2)	✓	✓		
Instrument Calibration Assessment	✓	✓		
ECOMAX® - Turn Down	✓	✓		
Plant Operations Assessment [Site Operations Audit Review (SOAR)]	✓	✓	✓	
Steam Walkdown	✓	✓	✓	
Protection Audit		✓	✓	
Maintenance Planning and Program Assessment		✓	✓	
Computerized Maintenance Management System (CMMS) System Assessment		✓	✓	
Quality Management System Assessment		✓	✓	
Risk & Reliability Assessment		✓	✓	
Administration Assessment		✓	✓	
Controls Health Audit/Assessment		✓	✓	
Historian Audit		✓	✓	
Cyber Security Assessment			✓	
Organizational Assessment (People/Structure)			✓	
Health & Safety Assessment			✓	
Employee Training & Development Assessment (People)	✓		✓	✓
NERC Compliance Assessment			✓	✓
Environmental Assessment			✓	✓
Continuous Emissions Monitoring System (CEMS) Assessment			✓	✓
Environmental Permit Assessment			✓	✓
ESG (Environmental, Social, and Governance) Assessment				✓

## ABOUT OUR ASSESSMENTS

The focus of these assessments is to gauge where the facility is with respect to implementation and execution of fundamental O&M processes/standards in three stages:

1. Site-specific data collection: home office personnel support for documentation gathering. Comprehensive analysis of P&IDs, processes, and O&M procedures.
2. On-site assessment: Comprehensive evaluations of performance and process health through the completion of interviews, walk-arounds and other non-invasive inspections.
3. A formal report detailing the assessment, findings, GAP analysis and recommendations will be issued. These variances are documented and can be tracked for assignment and implementation of corrective actions or countermeasures.

