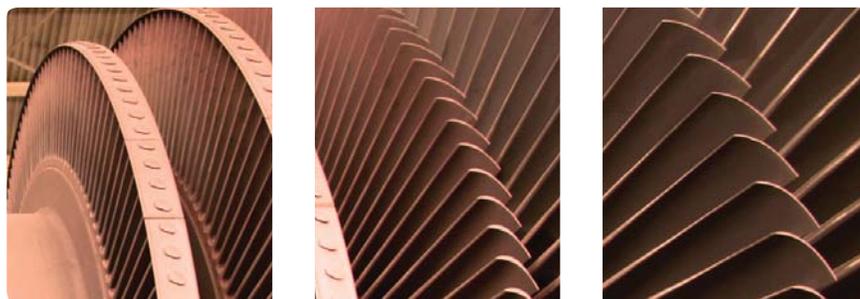


Solutions for Fossil Generation



World-Class Engineering and Consulting Services

Fossil Generation

Turning Challenges into Opportunities

Electricity generation companies face growing demands to produce reliable power, comply with environmental regulations, and meet corporate financial objectives. Aging plant assets, budgetary constraints, uncertain fuel costs, and the loss of key personnel to retirement complicate these challenges. But savvy power producers will turn these challenges into opportunities. Optimizing the management of corporate assets—both human and physical—can achieve exceptional returns on investment.

Solutions for Fossil Generation

Offering a broad suite of engineering and consulting services, the EPRI Solutions team of internationally recognized generation experts focuses on four key areas:

Optimizing Reliability and Maintenance

EPRI Solutions helps its clients address the dual goals of improving equipment and system reliability, while reducing operation and maintenance (O&M) costs. EPRI Solutions experts employ a range of methods to meet specific client needs. They are skilled in using state-of-the-art preventive maintenance, predictive maintenance, and plant maintenance optimization approaches, accompanied by sound business and engineering judgment. The results include reduced forced outage rates, decreased O&M costs, increased personnel utilization, improved equipment availability, enhanced productivity, and high return on investment.



Facilitating Timely Environmental Compliance

Compliance with environmental regulations can entail high costs and potentially huge financial risk. Given the complexity of these regulations and the range of ways to comply with them, the knowledge of how to reduce these risks and minimize compliance costs is beyond the expertise of most power producers. The EPRI Solutions team thoroughly understands the diverse set of regulations impacting power generators—and knows how to implement measures to achieve compliance, and quantify results to demonstrate high returns on investment.

Optimizing Plant Operations

Recognizing the uniqueness of each power generation facility, EPRI Solutions tailors its engineering services and offers customized process consulting to help clients optimize plant operations. Working closely with client personnel, EPRI Solutions addresses specific areas such as cycle chemistry and flow accelerated corrosion, as well as plant-wide programs of monitoring and diagnostics, and work planning and scheduling. While each plant is different, they share common financial realities—they are a high-cost fixed asset, their operation is expensive, and they wear as they age. The EPRI Solutions team is skilled in optimizing the day-to-day and month-to-month operation of these assets to improve overall financial performance.

Solving Problems and Analyzing Failures

The senior staff at EPRI Solutions leverages decades of utility and consulting experience to help power producers troubleshoot critical problems. Within hours of an incident, the EPRI Solutions team can assess the situation and provide recommendations for rapid, safe, and effective resolution. These services help power producers reduce or prevent equipment failures and outages, expedite recovery time to avoid lost revenue, and comply with applicable regulatory requirements. EPRI Solutions also offers root cause analysis services to help power producers avoid failure recurrence and improve reliability.

Success Story

EPRI Solutions helped a major U.S. utility implement a plant reliability optimization program. This program included development of an effective maintenance basis, as well as implementation of a work-week management program and corrective action process. This effort reduced equivalent forced outage rate by 30 percent, improved availability by 8 percent, and reduced O&M costs by 25 percent.

Success Story

EPRI Solutions has helped many utilities develop cost effective compliance strategies to respond to Clean Water Act 316(b) fish protection requirements. These efforts include defining strategic plans that are best suited to each power plant site, defining measurement and monitoring requirements, performing economic analyses, and assessing environmental impacts.

EPRI Solutions' world-class engineering services and business consulting provide *immediate benefits* and *lasting value* to power producers through improved reliability, optimized equipment and systems performance, enhanced asset utilization, improved financial performance, and ensured regulatory compliance.

Why EPRI Solutions?

EPRI Solutions brings a unique combination of resources to each client engagement, including sophisticated software tools, state-of-the-art testing facilities, and access to technology developed by EPRI and others. Our in-house team of power generation experts draws upon its extensive knowledge of industry issues, regulatory requirements, and technology solutions to provide unparalleled business value to power producers.

For More Information

The EPRI Solutions staff can address a broad spectrum of challenges for power producers.

To find out more, please contact us at info@epriolutions.com for a free consultation and tailored proposal.

www.epriolutions.com



Selected Service and Product Offerings

(please visit www.epriolutions.com for full details)

- 316(b) Support
- Asset Management Program Assessment
- Eco-Asset Management Services
- Eco-Assets Strategic Service
- Equipment Life Estimation
- Equipment Monitoring & Inspection
- Forensic & Root Cause Investigation & Analysis
- Generator Testing & Model Validation
- Greenhouse Gas Risk Assessment
- Grid Reliability Analysis
- Maintenance Basis Development
- Mercury Emissions Characterization & Monitoring
- Outage Management
- Plant Flow Accelerated Corrosion Evaluation
- Plant Monitoring & Diagnostics
- PlantView Software & Applications
- Predictive Maintenance Implementation Support
- Reliability Optimization & Plant Maintenance Optimization
- Risk Management
- State-of-the-Art Power Plant Software & Applications
- Substation/Switchyard Equipment Condition Inspection & Assessment
- Work Management—Planning & Scheduling