



COMPREHENSIVE OPERATIONS AND MAINTENANCE SUPPORT

OPERATION & MAINTENANCE (O&M) SERVICES

Operational challenges in power generation facilities, including thermal power plants, geothermal plants, and wind turbine generator (WTG) plants, demand comprehensive solutions. The need for high operational standards, efficiency, and adherence to environmental compliance poses significant challenges in the management and maintenance of these facilities.

Prismecs leverages over 30 years of global experience to address these challenges through our Operations and Maintenance (O&M) Services. Our expertise covers a diverse range of power generation facilities, ensuring that operational standards and efficiency remain at their peak.

DECADES OF EXPERIENCE

Encompass a wide range of activities aimed at ensuring the efficient and effective functioning of facilities, equipment, and infrastructure



Efficient & effective functioning



Wide range of O & M services



Creating asset-specific strategies



Dedicated O & M Support

PLANT OPERATIONS



24/7 Operation: Dedicated team on site (22 on Phase1 and 30 on Phase2).



Load Management: Optimizing power generation based on grid demand and fuel availability.



Startup & Shutdown Procedures :Standardized sequences to minimize wear and tear for equipment performance.



SOP: Site tailored Standard Operation Procedure.

MAINTENANCE STRATEGY



Preventive Maintenance (PM): Scheduled inspections and servicing to prevent failures.



Predictive Maintenance (PdM): Using data analytics, vibration analysis, and thermography to predict failures before they occur.



Corrective Maintenance: Early detection and rapid response to avoid equipment breakdowns and failures.



Spare Parts Management: Stocking critical components and consumables on site to reduce downtime.



Hot Section, Engine Exchange & Major Inspections: Onsite experienced team for engine removal and support for major inspections.



SAI: Dedicated team on site to perform Semi-Annual Inspections.

PERFORMANCE OPTIMIZATION



Heat Rate Optimization: Reducing fuel consumption per MW output.



Emissions Control: Meeting environmental regulations through optimized combustion and SCR systems emission testing.



Efficiency Improvement Programs: Upgrading outdated systems, improving insulation, and optimizing cooling.

TECHNOLOGY



CMMS: Computerized Maintenance Management System for parts management and preventative maintenance. It can also be used for PTW and LOTO.



Remote Monitoring & Diagnostics: Work closely with OEM for RM&D implementation and management.

A successful O&M plan balances reliability, efficiency, safety, and cost control that we will ensure the plant operates at its maximum potential throughout its lifecycle.

A comprehensive Operations & Maintenance (O&M) plan for your project should focus on ensuring high availability, efficiency, safety & cost-effectiveness while minimizing unplanned outages.



SAFETY & COMPLIANCE

EHS Management: Strict adherence to safety protocols and PPE use.

Regulatory Compliance: Meeting emissions, noise, and workplace safety regulations.

Emergency Preparedness: Fire suppression, blackout recovery, and hazardous material handling.

Safety Awareness: Constant training to enhance team awareness of hazardous at workplace.



WORKFORCE & TRAINING

Skilled Personnel: Engineers, operators, technicians, and EHS professionals.

Continuous Training: Regular updates on technology, troubleshooting, and best practices.

Knowledge Retention: Documentation of procedures, troubleshooting guides, and best practices.

OJT: On the Job Training for hands-on training as continues improvement training and skills.



COST MANAGEMENT & BUDGETING

O&M Budget Planning: Forecasting maintenance and operational costs.

Lifecycle Cost Analysis: Evaluating long-term cost benefits of upgrades vs. replacements.

LTSA (Long-Term Service Agreements): work closely with OEMs for LTSA implementation and maintenance support.



SOP

EHS SOP: Implement tailored EHS SOPs site specific.

OPS SOP: Implement operations SOPs that's tailored and site specific.



COMPLETE CARE, CUSTODY AND CONTROL

Our subject-matter experts bring decades of experience in addressing O&M challenges. Prismecs provides clients with guidance on start-up and commissioning, transition services, training, human resources, engineering, and project management

GENERAL MAINTENANCE SERVICES

- Routine Maintenance
- Predictive Maintenance
- Asset Management
- Corrective Maintenance
- Operations Facilitation
- Labor Links
- O&M Ownership
- Managing Relationships

COMPLIANCE AND REGULATORY SUPPORT

Our team handles all aspects of environmental, health, and safety (EHS) and regulatory compliance. Whether it's a start-up, a project in transition, or an existing Prismecs-managed facility, we deliver value to asset owners and minimize compliance risks by identifying improvement opportunities

FACILITY MANAGEMENT

- Routine Maintenance
- Predictive Maintenance
- Asset Management
- Corrective Maintenance
- Risk Assessment
- Regulatory Management
- Compliance Strategies
- Regulatory Oversight

OPERATIONS AND MAINTENANCE (O&M) SERVICES

Operations and Maintenance (O&M) services encompass a wide range of activities aimed at ensuring the efficient and effective functioning of facilities, equipment, and infrastructure. Here is a comprehensive list of O&M services

DOCUMENTATION & REPORTING

- IT Systems Maintenance
- Technical Support
- Substation
- Plant Turnaround
- Reporting and Analytics
- Maintenance Planning and Scheduling

ENGINEERING, FIELD SERVICES, AND REPAIR

Prismecs engineers and operations personnel are skilled in creating asset-specific strategies to address routine, predictive, preventive, planned, and unplanned needs. These tailored approaches ensure optimal results without compromising performance

EQUIPMENT AND MACHINERY MAINTENANCE

- Mechanical Maintenance
- Electrical Maintenance
- Instrumentation & Control
- Calibration Services
- Strategic Asset Management
- Expense Management
- Operational Improvement
- Value Relationships

CONSTRUCTION MANAGEMENT SERVICES

Prismecs' construction management services begin with acquisition and extend through to commercial operations. We collaborate with clients and their partners to develop and track budgets, report on performance, and address issues. Acting as an extension of the client team, we work side-by-side to ensure your interests are represented

INDUSTRIAL MAINTENANCE

- Plant Maintenance
- Utility Systems Maintenance
- Energy Management
- Field Services
- Opportunities Identification
- Project Management
- Resolution Management
- Stakeholder Relationships Management



GLOBAL EXPERIENCE AND RELIABILITY



Proven Track Record: Globally recognized for our meticulous and reliable approach, Prismecs has successfully managed projects with a total capacity of over 1500 MW. With projects spanning more than 15 countries, we consistently deliver superior outcomes across a wide range of international projects.



Continuous Collaboration: Prismecs global cooperation with technical institutions enriches our service quality.

HQ & REGIONAL OFFICES

COMPLETED PROJECTS

ACTIVE PROJECTS

PROCUREMENT



HQ & REGIONAL OFFICES	COUNTRIES	PROJECTS DELIVERED
04	15+	1,500 MW & Growing

THE PRISMECS PHILOSOPHY



People by leveraging the potential of human capital, refracting it through the lens of advanced technology to enhance performance.



Products with tangible embodiment of Prismecs' ability to refract potential into performance ensuring high-quality with innovation and forward-thinking.



Processes by effectively utilizing its resources and strategies as dynamic components that evolve with technological advancements, resulting in high-performance outputs for clients.

THINK PRISMECS

With strategic locations and partners around the globe, PRISMECS is ready to deliver the supply chain and engineered solutions services you need — no matter your operating environment.

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