



PT. ALBANY ENGINEERING SERVICES

JL. RAYA PANYAWUNGAN KM.0,8

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FIELD AND SHOP REPAIR EXHAUST DEFFUSER AND EXHAUST FRAM E GE FR-9



Processes and Procedures

PT. ALBANY offers a detailed planning process included in our service. Beginning with your RFQ, PT. ALBANY engages the project team to begin the planning process. We have created a schedule and identified the relevant work packages that will be developed once the order is awarded. Our work packages do not control the outage but guide the quality aspects of the outage. We believe that everyone on the team wants to do a good job, but we also know that anyone can make a mistake. Therefore, our work package philosophy is one of identifying critical work activities and having those activities signed-off by multiple people.

Key Aspects of Engineering Support – Interim Project Phases

Continued due diligence is required from project inception to project completion to work within established budgetary and scheduling goals . A further listing of additional key aspects that must be controlled and planned following from the previous outlines is listed below.

- Facility Review and Inspection
- Schedule Optimization
- Contract Negotiation Assistance
- Construction Management and Monitoring
- Commissioning, Start-up, and Testing
- Operation and Maintenance Reviews
- Performance Testing
- Plant Performance Modeling
- Expert Witness
- Power Purchase Agreement
- Development of Requests for Proposal
- Development and Review of Financial Proformas
- Development of Design Alternatives and Options
- Cost Estimates
- Review of Major Equipment Design and Application
- Development and Review of O&M procedures, practices, and costs
- Review of Change Order Requests
- EPC Oversight
- Review of EPC Contractor's Detail
- Design, Drawings, Layouts, and Specifications
- Verification of EPC Invoices and Contract Milestones
- Plant performance and monitoring



Specialized Labor/Staffing

- Specialized provider of craft labor
- Workforce management
- Legal review and permitting personnel and services
- Employee contract review
- Staffing and Training Development



Operations and Maintenance/Repair and Refurbishment

- O&M Company Review and Bidding Selection
- O&M Performance Criteria and Review
- Inspection and advisement
- Component categorizing and disposition
- Engineering review
- Life assessment – metallurgical review
- Advanced repair technology
- Advanced coating technology
- Product modifications for life extension



Field Service

- Relocation services
- Turbine modifications and upgrades
- Process oversight and verification
- Inspection and quality services
- Plant performance monitoring

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REPAIR EXHAUST DEFFUSER AND EXHAUST FRAM E GE FR -9
PT. PJB MUARAKARANG



Operations and Maintenance/Repair
and Refurbishment

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- ▣ **Industry Trust**
- ▣ Our team thrives on being able to bring the entire breadth of their expertise to your projects, with a focus on techniques and advice that have been proven to extend the lifespan of your equipment. Our customers are leading voices in the industry that trust and rely on PT. ALBANY for their most time-sensitive projects.
- ▣ **Services**
- ▣ Our mission is to provide a true and complete independent alternative, strictly focused on services and advice designed to reduce operations & maintenance costs while maximizing the lifespan of your equipment. Our services include:
- ▣ Minor Inspections
- ▣ NDE Services
- ▣ Upgrades
- ▣ Repair Engineering
- ▣ Major Inspections
- ▣ Failure Investigations
- ▣ Coatings
- ▣ Owner's Representation
- ▣ Outage Planning
- ▣ Parts Procurement
- ▣ Training
- ▣ Controls Support
- ▣ Boroscopic Inspection
- ▣ Retrieval Services
- ▣ Labor
- ▣ Project Management



PT. ALBANY ENGINEERING SERVICES – Introduction

PT. Albany Engineering Services (PT. Albany) is an independent private service, and contracting firm to the industrial and power generation markets. PT. Albany acts as technical advisory for a wide range of projects ranging from fundamental turbine quality and engineering solutions to component and plant design, to O&M and turbine performance upgrades and monitoring. We consult for private investors as well as public utilities. We seek to optimize the efficiency of our client's component and turbine field service capabilities and capacities as well as power plant requirements. We can provide field repair and overhaul, as well as operations and maintenance. In addition, our service offerings range from initial and contract review to final commissioning and handover of small and large scale power projects . This overview aims to provide a detailed summary of the wide and varied range of technology and service offerings that PT. Albany provides to our customers / clients.



FIELD OVERHAUL STEAM TURBINE 110 mw, CHINA TURBINE (WUHAN) AT PLN SIBALANG LAMPUNG

PT. Albany retains a global network of specialists who are integrated into each unique project requirement giving the flexibility and speed to deliver competent solutions under time and budget pressures. With a firm understanding of the fundamentals of power generation we are able to leverage the strengths of the companies we work for as well as the team member companies we contract and the equipment suppliers and technologies we recommend. We have a global reach and call on the best companies and products to create solutions to meet current critical energy needs.



PT. ALBANY – Service Offerings

Trans World Power provides a wide range of support services for a diverse range of customer needs involving all aspects of small scale, industrial and derivative, and large scale power generation market and industry sectors. Our projects are as varied as the customers we serve and relate to power produced from fossil, renewable, biomass and the wide range of available fuel sources that are the best fit to the geographic limits and economic needs of the individual projects.

Major Technology, Support, and Service Categories:

- ▣ Engineering of Plant Services, and overhaul Contract Services
- ▣ Specialized Labor/Staffing
- ▣ Operations and Maintenance/Repair and Refurbishment

Engineering , and Contract Services

Oversight is required across the whole scope of construction and power generation projects to keep accountabilities, as well as schedule and cost performance target realization. Key aspects of projects, regardless of size, which must be controlled and planned are presented in next pages. By no means is this a comprehensive list, but it is provided to give an overview and some clarity to the complexity of power generation programs and the multi-faceted and inter-connected features which must be managed and balanced for successful outcomes and completion within budgetary and time constraints.

One of the major engineering services offered by PT. ALBANY is that of representative to the ultimate owner of the project who bears the burden of risk of non-completion and further risk by technical mishaps and quality control and assurance issues.

Key Aspects of Engineering Support – Initial Project Phases

- ▣ Owner's advisor, engineer and representative
- ▣ Site and equipment selection
- ▣ Conceptual plant design
- ▣ Supplier and contractor selection
- ▣ Technology validation
- ▣ Project scheduling
- ▣ Planning and Feasibility Studies
- ▣ Project Cost Estimates
- ▣ Due Diligence Studies for Asset Acquisitions
- ▣ Cost / Benefit Analysis



FIELD OVERHAUL FOR HYDRO TUEBINE



Overhaul / on site repair rotor (runner) of Hydro Turbine at Saguling of Indonesia Power