

Solutions for the Power Generation Industry

India | USA | Italy | Japan | UK | Germany | France | Spain



QuEST Global provides product support & engineering solutions for turbomachinery equipment such as turbines (gas, steam & hydro), generators, compressors (centrifugal, reciprocating & screw) and related accessories for hydro, nuclear, fossil fuel & wind based power generation plants. The range of services supported include conceptual design, detailed design support, customer application order fulfillment, manufacturing & commissioning.

QuEST Global's infrastructure projects help customers meet their renewable energy engineering requirements. Our renewable energy solutions help our clients improve operational efficiency, manage energy price risk and increase security and reliability, through our globally located engineering work force, we maximize revenue generation and reduce the cost of product development.

QuEST Capabilities

Power Generation, Transmission & Distribution Products			
Conventional	Renewable	Balance of Plant & Auxiliary Systems	Transmission & Distribution
Coal / Oil & Gas / Nuclear	Hydro / Wind / Solar / Biomass		
<ul style="list-style-type: none"> • Aero Derivative Gas Turbines • Heavy Duty Gas Turbines • Steam Turbines • Generators 	<ul style="list-style-type: none"> • Hydro Turbine • Gas Engines • Photovoltaic Cells • Hydro Generators • Low BTU Gas Turbines • Wind Turbines 	<ul style="list-style-type: none"> • Condensor • Enclosures • Lube Oil Console • Inlet & Exhaust System • HRSG • Heat Exchanger • Wind Towers • Pumps • Skids & Baseplates • Control Valve • PV Farm BoS Equipments 	<ul style="list-style-type: none"> • Substation • Switch Gear • HV / LV / DC equipment • Earthing System • Transformers

Our Service Offerings

PRODUCT DEVELOPMENT			NEW PROJECTS			FOLLOW ON SERVICES	
Marketing and Concept	New Products	Standardization	Inquiry to Order	Order to Remittance	Manufacturing and Testing	Site Activities	After-Market
<ul style="list-style-type: none"> Staffing Market Research Life Cycle Simulation 	<ul style="list-style-type: none"> Concept Design CFD Analysis FEA Structural Analysis Electrical Analysis: Load Flow / Short Circuit / Voltage Dip Analysis Design Validation Design Optimization Mechanical, I&C, Electrical and Civil Detail Design 3D Modeling and Assembling with 2D associative Drafting 	<ul style="list-style-type: none"> Design Automation Product Structuring Technical Publications Illustrated Part Catalogues 	<ul style="list-style-type: none"> Front End Engineering Design for Bid Bid and Proposal Automation 	<ul style="list-style-type: none"> Mechanical, I&C, Electrical and Civil Detail Design 3D Modeling and Assembling with 2D Associative Drafting Project Engineering Support Plot Plans and General Layouts Assembly Drawings with detail BOM Fabrication Drawings with detail BOM Design Localization O&M Manuals 	<ul style="list-style-type: none"> Development of Suppliers in Low Cost regions Global Vendor Management Technical evaluation of Vendor's Proposals Vendor's QA Inspection Support In-house Part Machining - India Sheet Metal Fabrication - China Casting Procurement - India 	<ul style="list-style-type: none"> Site Management Support Installation Procedures and Manuals Commissioning & Start-Up Procedures Performance Test and Troubleshooting Support 	<ul style="list-style-type: none"> Customization, Modifications and Upgrades Engineering As Built Documentation Legacy Documentation Conversions and Technical Translations Reverse Engineering

Typical case study-Setting up a global engineering center to leverage capacity and cost advantages

"QuEST rates highly in terms of their technical capabilities. They also come closet amongst all, in being able to deliver an end product from a functional spec." - **Customer General Manager**

Customer

- Customer is part of well known diversified group and is one of the world's leading suppliers of power generation and energy delivery technologies
- The division employs ~ 50,000 people, with annual sales above \$50 billion, and provides a broad array of solutions and services worldwide
- It has its own India based engineering and development facility

Requirements

Develop global engineering capability to

- reduce the overall cost of design and engineering
- improve productivity and profitability
- have easy access to a pool of well trained engineers
- leverage productivity gains and shorten product design cycle time by working across time zones
- ensure internal resource focus on core product development activities

QuEST Global Approach

- Develop a do buy matrix with customer
- Roadmap to progressively migrate the non-core activities offshore
- Developed & implemented a number of processes with respect to man power deployment, technical trainings, infrastructure development and quality initiatives
- Build competence offshore inline with the requirements that can be fully integrated in to customer's product development cycle

Results

- >400 member local global team supporting multiple customer sites and products
- Competencies at the global development center covers wide variety of engineering disciplines
- Over 3.5 million hours of engineering support

Impact

- The relationship has accounted for a cost savings of 28% year on year to the customer over a span of 6 years

About QuEST Global

QuEST Global is a leading provider of diversified engineering services and manufacturing. The company helps customers in the Aerospace, Consumer Electronics, Healthcare, Industrial Products, Marine, Nuclear, Oil & Gas, Power Generation and Transportation verticals, to cut product development costs, shorten lead times, extend capacity and maximize engineering resources. We do this by providing support across the complete product life-cycle from design and modelling through analysis, prototyping, automation, data documentation, instrumentation and controls, embedded systems development, manufacturing support, vendor management and in-house precision machining.



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