

CYIENT

TRUSTED ENGINEERING PARTNER FOR POWER GENERATION EQUIPMENT AND PLANT ENGINEERING

How we work with our clients to help overcome challenges
for a better tomorrow

CELEBRATING
25
YEARS

Overview

We provide engineering solutions to diverse sectors including fossil, renewable, and nuclear power.

We currently serve the world's leading power generation equipment manufacturers, EPCs, and power plant owners across the energy conversion value chain. With years of experience in product and process engineering, we are uniquely positioned to serve our clients right from energy generation to transmission and distribution.

We leverage our multifunctional engineering expertise, advanced plant design and simulation tools, and various plant diagnostics and systems technologies, and also provide comprehensive services for complete power plants and power generation equipment.

We also provide project management, procurement assistance, and vendor evaluation services.

How We Help Our Clients

- Significant contribution in gas turbine upgradation program as an extended design arm of the client. It involved redesign of compressor section, maximizing the commonality of the parts, and redesign of power turbine components
- Reduced gas turbine design cycle time by modularizing the package design
- Minimized wind turbine downtime through optimization of Nacelle ventilation design by conducting thermal analysis and providing alternate design concepts
- Designed a unique transportation cage which allows 3 blades to be transported in one go via road and 9 via sea, thereby minimizing the transportation cost substantially
- Reduced maintenance cost by designing lattice and tubular towers with minimal bending and vibration failure

ENSURING AVAILABILITY, RELIABILITY, AND SUSTAINABILITY IN POWER GENERATION

Focus Area

Wind

- Main plant equipment - Wind turbine
- Electrical and control engineering - Wind farm

Fossil

- Main plant equipment - Gas turbines, steam turbines, compressors, and generators
- Auxiliary equipment - Heat exchangers, pressure valves, compressors, and valves
- Plant engineering

Nuclear

- Plant engineering

Our engineering solutions have helped our clients improve equipment efficiency while keeping the product cost competitive

Our strong knowledge of various markets, standards, and regulations enables us to provide localized engineering solutions for global markets

Service Offerings

Power Generation

Gas and Steam Turbines

- Engineering solutions across the product life cycle: new product development, retrofit and refurbishment, and manufacturing support services for industrial and utility turbines
- Expertise in all system, subsystem, and components

Wind Turbines

- Product engineering
- Manufacturing, transportation, and field engineering
- Expertise across all subsystems—blade, nacelle, tower
- Experience in coordinating with various certifying authorities such as GL, DNV, TUV, and C-WET

Plant Engineering

- Engineering solutions for power plants from FEED till commissioning
- Services for data migration, data validation, and as-built engineering
- Expertise in plant design standards for nuclear and thermal power plants

Auxiliary Equipment

- Design and analysis solutions for pressure vessels, heat exchangers, and valves

Transmission and Distribution

- Network design of transmission and distribution lines
- GIS solutions
- Smart grid solutions
- SCADA and DMS solutions support

KEY HIGHLIGHTS

Multidisciplinary team to support all facets of plant engineering

Expertise in plant design standards for nuclear and thermal power plants

Expertise across all subsystems for onshore and offshore wind turbine

Track record of providing design upgrades to enhance efficiency and residual life of gas turbines

Experience in new product design of gas turbines from 15 to 55 MW

To capture opportunities in emerging markets through localized solutions

Liaison with industry specific regulatory and certifying authorities

About Cyient

Cyient is a global provider of engineering, manufacturing, data analytics, networks and operations solutions. We collaborate with our clients to achieve more and shape a better tomorrow.

With decades of experience, Cyient is well positioned to solve problems. Our solutions include product development and life cycle support, process and network engineering, and data transformation and analytics. We provide expertise in the aerospace, consumer, energy, medical, oil and gas, mining, heavy equipment, semiconductor, rail transportation, telecom and utilities industries.

Strong capabilities combined with a network of more than 13,100 associates across 38 global locations enable us to deliver measurable and substantial benefits to major organizations worldwide.

For more information about Cyient, visit our website.

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