



TATA CONSULTING ENGINEERS LIMITED



Engineering
Infinite Possibilities

Globally Trusted Engineering Consultancy



Engineering a Better Tomorrow

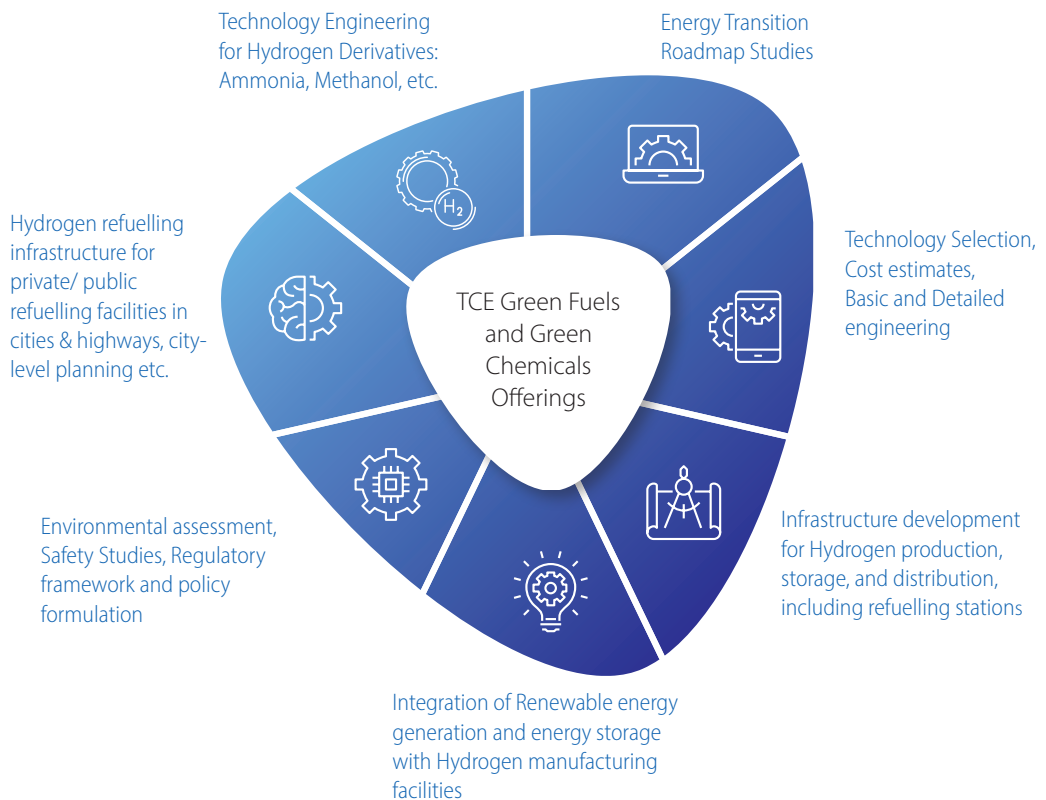
Since its inception in 1962, Tata Consulting Engineers (TCE) has delivered over 12,000 projects across 65+ countries, establishing itself as “Engineers to the Nation.” Guided by its vision of Engineering a Better Tomorrow, TCE has been instrumental in shaping India’s most iconic and complex projects while continuously evolving to meet global challenges.

TCE operates on the Owner’s Engineer and Project Consultant (OEPC) model, offering end-to-end engineering solutions that span feasibility, design, execution, and operational support. This approach allows TCE to seamlessly integrate with clients’ project goals, delivering innovative, efficient, and sustainable solutions tailored to diverse requirements.

Sustainability lies at the core of TCE’s strategy. The company actively contributes to the global energy transition by supporting the development of renewable energy projects, decarbonisation initiatives, and green infrastructure. Through its commitment to sustainability, TCE provides cutting-edge solutions that address the pressing need for clean energy and environmentally responsible practices across industries.

Digital transformation is another key focus of TCE’s operations. Leveraging advanced technologies like the Industrial Internet of Things (IIoT) and 3D-5D delivery models, TCE ensures precision, efficiency, and cost-effectiveness in its project execution. These digital capabilities enable the company to deliver bespoke solutions while maintaining its focus on quality and sustainability.

With a multidisciplinary team of highly skilled engineers and decades of experience, TCE is well-equipped to manage complex projects on a global scale. Its integrated service model, paired with a commitment to innovation and sustainability, makes TCE a trusted partner for engineering solutions worldwide.



Services We Offer



Design & Engineering

- Project Concept Development
- Pre-feasibility & Feasibility Reports
- Detailed Project Reports
- Environmental Study Reports
- System Studies
- Basic Engineering
- Frontend Engineering Design (FEED)
- OE Services
- Detailed Engineering



Digital & Advanced Technologies

- Unified 3D Engineering, 4D, 5D Simulation
- Building Information Management
- Asset Digitisation & Asset Information Management
- Industry 4.0 & Asset Performance Management
- Product Engineering - Design and Analysis
- Turnkey Machine Development



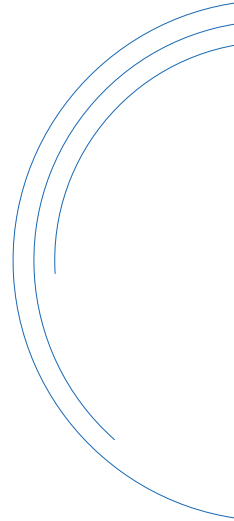
Project Management & Safety

- Project Management
- Engineering & Constructability Review
- Construction Management / Supervision
- Program Management
- Interface Management
- Quality & Safety Audits
- Outage & Opex Management
- Procurement Management



Sustainability and Energy Transition Solutions

- Clean and Renewable Energy
- Green Infrastructure
- Green Fuels and Chemicals
- Green Steel & Cement
- Energy Transition Technologies





Hydrocarbons & Chemicals

With a proven track record of providing comprehensive engineering services spanning over four decades, Tata Consulting Engineers' Hydrocarbon and Chemicals Business Unit delivers concept-to-commissioning solutions for the oil & gas, petrochemicals, fertilisers and speciality chemicals industries. TCE demonstrates core expertise in critical areas like Safety Instrumented Systems (SIS) and High Integrity Pressure Protection Systems (HIPPS) - integral for ensuring safe plant design and operations. Leveraging capabilities like value chain integration, schedule optimisation through 4D simulations, value engineering and in-house services across the project lifecycle, TCE provides hydrocarbon and chemicals sector clients with a competitive edge.

SECTORS



Green & Sustainable Chemicals



Chemicals & Speciality Chemicals



Refineries & Petrochemicals



Agrochemicals & Fertilisers

QUICK FACTS

- Engineered the largest fertiliser plant in Africa
- Engineered Ethiopia's first PVC plant
- Engineered Asia's largest paint manufacturing facility - 150,000 & 300,000 kLPA
- Engineered India's first bank currency rolling paper mill for the Reserve Bank of India
- Established dedicated engineering centres to serve major Petrochemical and Chemical companies across the globe
- Engineered India's largest PV glass manufacturing plant for clean energy generation
- Engineering India's expanding battery & semiconductor manufacturing facilities
- Engineered world's largest green ammonia project
- Engineered 2GWh lithium-ion battery manufacturing plant
- Engineered biomass gasification project to produce hydrogen





Infrastructure

Tata Consulting Engineers' Infrastructure Business Unit is dedicated to building the backbone that supports a nation's progress and enhances the quality of life for its citizens. As India's leading infrastructure consulting firm, TCE provides comprehensive services across water management, built environment development, and transportation sectors. The company's expertise encompasses master planning, design, engineering, procurement, and review for large-scale projects funded by major international agencies. TCE takes immense pride in delivering sustainable solutions that improve urban infrastructure, including water supply systems, sewage treatment plants, smart cities, industrial townships, ports, roads, metro rail, and airport infrastructure. With a strong focus on innovation and a collaborative approach, TCE partners with government bodies, private players, and international organisations to create a better tomorrow through its infrastructure development initiatives.

SECTORS



Water



Built Environment



Transportation



**Environmental Engineering,
Sustainable Infrastructure**

QUICK FACTS

- Engineered water resource solutions across 19 states in India and direct water supply systems for over 1 crore households in various cities
- Engineered 800+ km of sewer pipe network, including 60 km of underground transmission tunnels
- Engineered 33,000 MLD capacity for water treatment and wastewater treatment plants
- Designed 3,000 MLD desalination plant
- Engineered 50+ lakh sq. ft of manufacturing infrastructure
- Provided engineering for 400+ lakh sq. ft of residential infrastructure and 300+ lakh sq. ft built-up area for educational & IT facilities
- Master planning engineering for 50+ towns under the AMRUT and Smart Cities project
- Detailed design consultancy for India's first high-speed Bullet Train project



Power

The Power Business of TCE is amongst the top two players in the Indian market, providing value-added engineering services from concept to commissioning and life cycle management services. With decades of experience in Power Generation, Transmission and Distribution, the business is geared up to deliver emerging customer aspirations. Having made its mark in engineering and project management of various thermal power plants globally, TCE's Power Business has stayed relevant by adapting to the changing needs of energy transition towards greener and environmental-friendly power plants. The business unit offers innovative solutions to customer needs focusing on sustainability and environment.

SECTORS



Nuclear



Hydroelectric



Renewable



Thermal

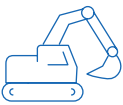


Transmission & Distribution

QUICK FACTS

- 60+ years of engineering expertise across the power sector value chain.
- Capable of delivering the full range of services across the project life cycle – from Concept to Commissioning and Opex Services for operating facilities.
- Engineered 160+ GW of Thermal Power (Coal, Gas, Captive/Cogen, Opex)
- Engineered 10+ GW of Nuclear Power (PHWR, FBR)
- Engineered 50+ GW of Hydro Power (Small, Medium, Large Hydro, PSPs)
- Engineered 40+ GW of Renewable Power (Solar, Wind, Hybrid, WtE)
- Engineered 10,000+ ckm and 200+ substations of T&D Infrastructure (Transmission Lines, Substation (AIS/GIS), Distribution systems, System Studies)
- Engineering Projects in Emerging Areas (Energy Transition, Energy Storage, Green Hydrogen, Small Modular Reactor (SMR), Nuclear Fusion, Digital solutions)





Mining & Metallurgy

Tata Consulting Engineers' Mining and Metals business unit provides comprehensive pit-to-port solutions for the ferrous and non-ferrous metals industry. Established in 2005 to cater to the sector's growing needs, TCE is now a leading player offering one-stop services from mineral exploration and mining to metal manufacturing and processing. With vast experience across open-cast and underground mining, TCE delivers world-class solutions covering mine planning, mineral beneficiation, material handling, and infrastructure development for steel, aluminium, zinc, copper, and other metal plants. The company's specialised mining and metallurgy expertise, combined with capabilities in ancillary services like raw material management, utilities, and brownfield modernisation, enable it to provide a closed-loop offering to marquee global clients spanning the entire mining and metals value chain.

SECTORS



Ferrous Metals



Non-Ferrous Metals



Mineral Beneficiation

QUICK FACTS

- Engineered 500+ Metal and Mining projects (150+ international)
- Pioneered 3D Engineering Platform for ISP execution (India first)
- Achieved 9 years of success with engineering for MSA project delivery
- Implemented an efficient Onsite-Offsite engineering model for OPEX & Annuity business
- Provided engineering services for Plant Performance, Sustainability (Circular Economy), & Large-Scale Engineering Projects (10 MTPA Steel Plant, 100+ MT Ore Handling)
- Accomplished 300,000 Ton of structural steel engineering and fabrication
- Carried out 1 Million m3 of concrete engineering for metal/mine infrastructure
- Executed engineering for one of the largest Zinc, Bauxite & Iron Projects



12000+ Projects

Delivered Globally



15+ Million Meters

Piping Engineering



60+ Years

of Technical Excellence



260+ GW Power

Engineered Globally



15+ Million Hours

3D Engineering Across
Businesses



**\$35+Bn Worth
Projects**

Under Management



**30000+ MLD Water &
Wastewater**

Treatment Done



**14 Smart & 55 Brownfield
Cities in India**

Detailed Engineering Design



250+ Million TPA

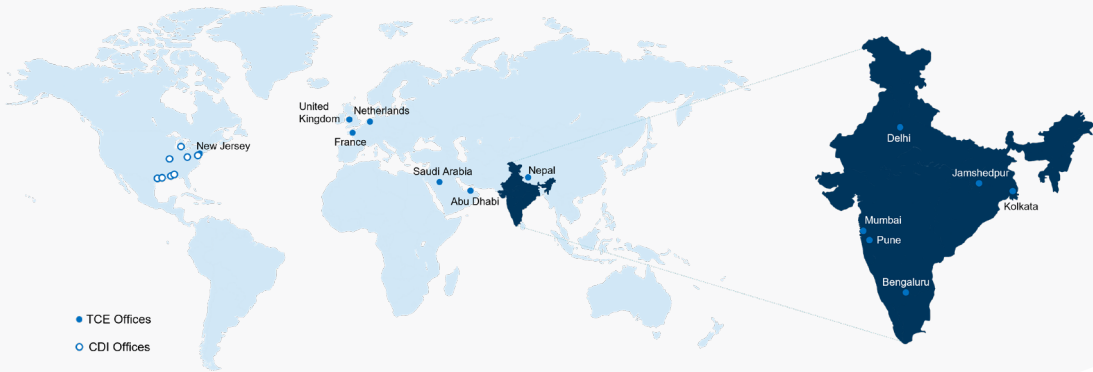
Material Handling



7000+ Engineers

Across All Domains

TCE Global Footprint



TATA CONSULTING ENGINEERS LIMITED

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