

Hydrocarbons and Chemicals

Transforming Energy and Materials

About us

Founded in 1962, Tata Consulting Engineers is a global engineering consultancy delivering integrated solutions across **Hydrocarbons and Chemicals, Power, Infrastructure, Mining and Metallurgy, and Advanced Facilities**. With more than six decades of experience and the legacy of the Tata Group, we support clients in designing, modernising and operating safe, efficient and sustainable assets.

Our multidisciplinary capabilities span Design and Engineering, Sustainability and Energy Transition Solutions, **Digital and Advanced Technology, Project Management and Safety, and Architecture & Planning**, covering the full lifecycle from concept to execution and operation.

Headquartered in India, we operate through offices in the **United States, Europe, Australia, the Middle East and the Philippines**, and have delivered over **12,000 projects** in more than **65 countries**.

Guided by our purpose of Engineering a Better Tomorrow, we enable responsible growth and future-ready transformation for industries worldwide.

Engineering safe, efficient and future-ready assets

For over 40 years, Tata Consulting Engineers has delivered end-to-end solutions for the hydrocarbons and chemicals sector from concept and design to commissioning, modernisation and digital transformation.

We support the full value chain including refineries and petrochemicals, speciality chemicals, advanced materials and fertilisers. Our teams design and modernise greenfield and brownfield facilities, with solutions aligned to operational efficiency, reliability, sustainability and regulatory requirements.

Our value-engineering approach optimises capital and operating costs, while digital tools such as 3D and 5D models, IIoT and analytics improve precision and reduce rework. Proven global delivery and engineering-centre models strengthen collaboration with major industry players and EPC partners.

Segments We Serve



Oil & Gas and Chemicals

- Midstream facilities including pipelines, tanks and terminals engineered for safety and reliability.
- Downstream refining, derivatives and petrochemicals supported by advanced process engineering.
- LNG facilities designed for resilience and efficiency.
- Chemicals, speciality chemicals, polymers, coatings, paints and agrochemicals including fertilisers.



Sustainable and Low Carbon Alternatives

- Biofuels engineered to support cleaner energy pathways.
- Blue ammonia and carbon capture solutions enabling global decarbonisation.



Project Development Pathways

- **Greenfield:** Pre FEED to FEED to detail engineering to plant digitisation with reverse engineering when needed.
- **Brownfield:** Reverse engineering to baseline plant digitisation to Pre FEED to FEED to detail engineering followed by as built digitisation.

Global Reach, Local Expertise

TCE blends global engineering capability with deep regional insight. Our teams collaborate through advanced digital platforms and global engineering centres.

- **United States:** More than 700 engineers supporting international and domestic projects.
- Projects executed across India, the Middle East, Europe, South East Asia and Australia.



The TCE Advantage

Global Engineering Partner

Long term partnerships with refineries, petrochemicals, speciality chemicals and semiconductor industries ensure integrated engineering and dependable delivery.



Diversified Expertise

Our capabilities span semiconductors, battery systems, PVC, chlor alkali and speciality chemical plants internationally.



Proven Alliances

More than 20+ yrs of experience with global petrochemical & chemical majors; 30+ yrs with specialty chemicals leader strengthen outcomes through shared expertise and advanced practices.



Global EPC Support

We provide FEED and detailed engineering services that strengthen the delivery capabilities of EPC partners.



Hydrogen and Sustainability

We deliver carbon capture, blue and green ammonia and clean energy solutions that support global sustainability goals.



Multi-Energy Focus

We support LNG, biofuels and transitional energy solutions that help clients move towards low carbon operations.



Dedicated Engineering Centre

Our dedicated centres support major petrochemical manufacturers with consistent quality, long-term collaboration and efficient engineering.



Contact us

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