

Tata Consulting Engineers: Engineering the next phase of India's growth with certainty and responsibility



By Mr Amit Sharma, Managing Director and CEO, Tata Consulting Engineers,

As the year draws to a close, it is timely to reflect on how Tata Consulting Engineers continues to prepare for the next phase of India's engineering and industrial growth.

The year witnessed sustained momentum across infrastructure, power, mining and metallurgy, hydrocarbons and chemicals, and advanced facilities. These sectors are being shaped by large-scale investments, regulatory developments, and rising expectations around delivery certainty, safety, and sustainability. Tata Consulting Engineers has remained focused on delivering integrated engineering and project consultancy services that combine technical depth with long-term value.

Within the power sector, nuclear energy is gaining renewed importance as a reliable and clean source of baseload capacity. Policy developments such as the Shanti Bill are expected to improve the investment environment by addressing risk and liability concerns, enabling broader participation in nuclear programmes. With decades of experience in nuclear engineering and project support, Tata Consulting Engineers is well-positioned to contribute to capacity expansion and technology advancement, with a strong emphasis on safety and governance.

Artificial intelligence and digital engineering are increasingly shaping how projects are conceived and delivered. Through data-led design, digital twins, automation, and advanced analytics, we are improving planning accuracy, strengthening decision-making, and enhancing predictability across complex programmes. These capabilities support safer execution, better coordination, and future-ready assets.

Alongside this, there is a growing focus on aligning capital and operational considerations at the design stage itself. The long-term value of infrastructure and industrial assets depends not only on efficient construction, but on reliable performance over their full lifecycle. By integrating CAPEX and OPEX thinking early, we help clients design assets that are easier to operate and maintain, more resilient, and better aligned to lifetime cost and performance objectives.

Looking ahead, emerging sectors such as semiconductors, advanced manufacturing, data centres, and high technology facilities will play a defining role in India's industrial landscape. Anchored by its Owner's Engineer and Project Consultant model, Tata Consulting Engineers remains committed to engineering excellence, responsible growth, and trusted partnerships that support national and global development priorities.