

ENGINEERING INDIA'S NEXT PHASE OF GROWTH WITH RESPONSIBILITY: AMIT SHARMA

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Amit Sharma, MD and CEO, Tata Consulting Engineers (TCE), outlines TCE's strategy to support India's next phase of industrial growth through integrated engineering, nuclear and digital capabilities, lifecycle-focused design, and responsible project delivery across emerging and core sectors.



As the year draws to a close, it is an opportune moment 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, evolving regulatory frameworks, and rising expectations around delivery certainty, safety and sustainability. Against this backdrop, Tata Consulting Engineers has remained focused on delivering integrated engineering and project consultancy services that combine technical depth with long-term value creation.

Within the power sector, nuclear energy is gaining renewed prominence as a reliable and clean source of baseload capacity. Policy developments such as the SHANTI Bill are expected to strengthen the investment environment by addressing risk and liability concerns, thereby 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 an unwavering emphasis on safety, governance and compliance.

Artificial intelligence and digital engineering are increasingly reshaping how projects are conceived, designed and delivered. Through data-led design, digital twins, automation and advanced analytics, the company is improving planning accuracy, strengthening decision-making and enhancing predictability across complex programmes. These digital capabilities enable safer execution, tighter coordination and the delivery of future-ready assets.

In parallel, 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 consistent and reliable performance across their full lifecycle. By integrating CAPEX and OPEX thinking early in the project lifecycle, Tata Consulting Engineers helps clients design assets that are easier to operate and maintain, more resilient, and better aligned with lifetime cost, performance and sustainability objectives.

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