



OPINION >

THE ROLE OF DIGITAL TRANSFORMATION IN EPC: BENEFITS, CHALLENGES, BEST PRACTICES

In this article, we will explore how digital transformation can help EPC companies improve their operational efficiency, enhance their customer satisfaction, and create new sources of competitive advantage.



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1 Story



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Engineering, **Procurement** and **Construction** (EPC) companies are facing unprecedented challenges and opportunities in the current market sce

Digital transformation is the process of using digital technologies to create new or modify existing business processes, products, services, and custor

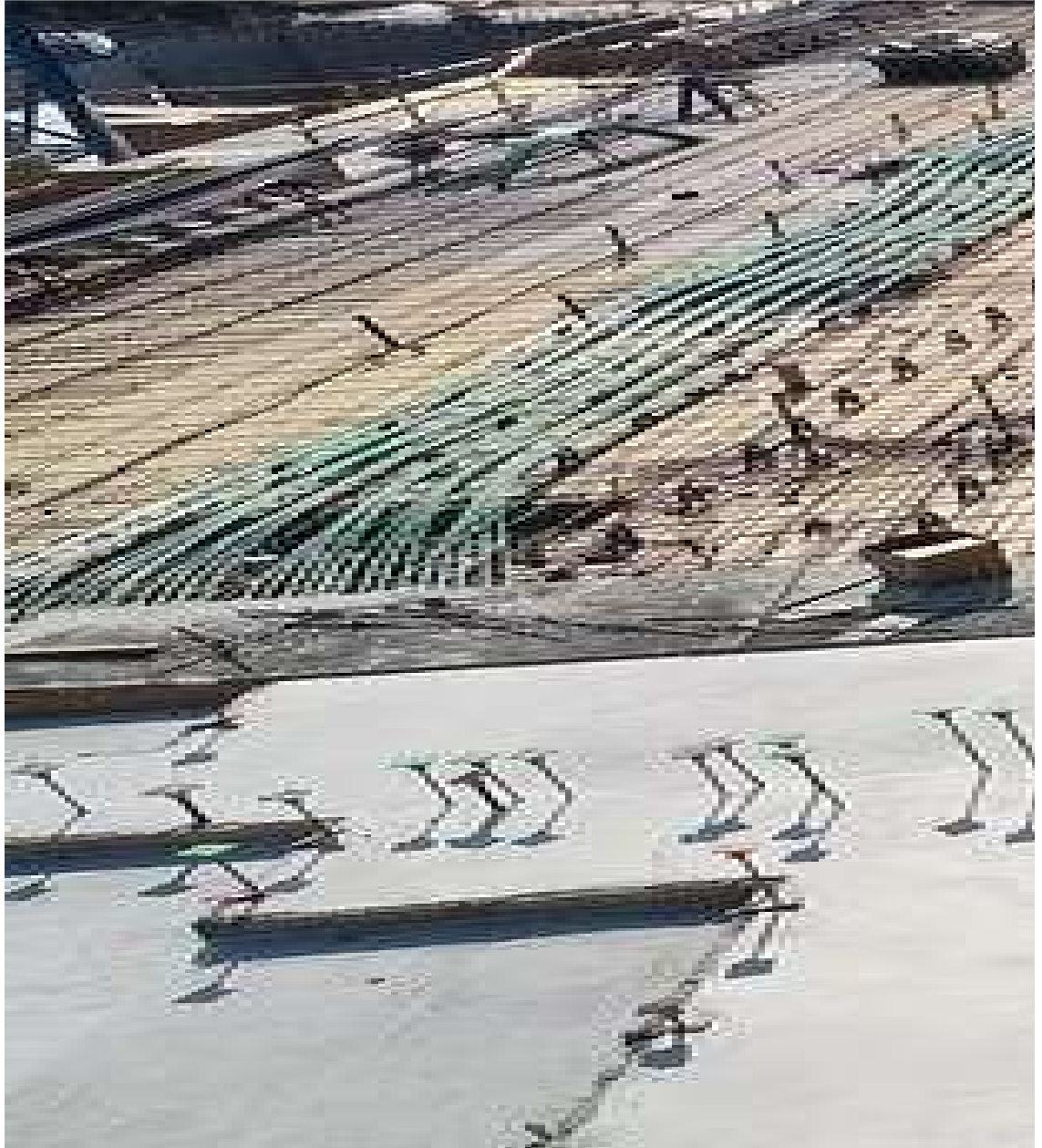
In the case of India's first commercial-scale hydrogen purification (fuel cell grade), compression, storage and dispensing facility. This project involved

Digital transformation can enable EPC companies to achieve the following benefits:

- Operational efficiency: Digital technologies can help EPC companies automate and optimise their core processes such as engineering design

Artificial intelligence and **machine learning** can provide insights and recommendations for better decision-making and problem-solving. The **Int**

- Customer satisfaction: Digital technologies can help EPC companies deliver more value to their customers by offering customised and inno



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For example, digital twin technology can create a virtual replica of a physical asset, such as a plant or a pipeline, allowing the customer to visualise, si

In our case, the first usage was in projects 400 TPD Sulphur Recovery Unit (SRU), 250 TPD Chlor-Alkali and IOCL's Bio-Ethanol Plant Project.'

- Competitive advantage: Digital technologies can help EPC companies create new sources of differentiation and growth by exploring new m

However, digital transformation in EPC is not without its challenges. EPC companies face several barriers and risks that hinder their digital transfor



- Poor integration and adoption: Digital transformation requires not only the implementation of new technologies but also the alignment of I
- Complex and dynamic environment: EPC projects are often large, complex, and long-term, involving multiple parties, locations, and regulat
- Talent and skills gap: Digital transformation requires new capabilities and skills, such as data analytics, automation, and IoT. However, the E

To overcome these challenges and achieve successful digital transformation, EPC companies need to adopt some best practices that can guide their j

• Define and communicate the vision and strategy: EPC companies need to have a clear and compelling vision and strategy for digital transfc

• Scale and Sustain: EPC companies should not try to transform everything at once but rather start with small and manageable projects that c

• Leverage partnerships and ecosystems: EPC companies should not try to do everything on their own but rather leverage the expertise and r

• Foster a culture of innovation and learning: EPC companies should create a culture that encourages and rewards innovation and learning an

Digital transformation is not a choice but a necessity for EPC companies in the 21st century. By leveraging the power of the cloud, artificial intellige

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Edited by Kanishk Singh

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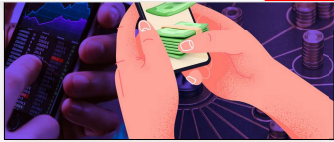
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