

## CASE STUDY



# From Complexity to Clarity: Epta's IT Transformation for Engineering Excellence

## CHALLENGE

### Navigating the Complex IT Infrastructure

The customer's ambition to lead in green projects was stymied by the complexity of their existing IT infrastructure. Their primary challenge was finding or building an engineering solution that seamlessly integrated with their multi-IT infrastructure architecture.

Key requirements included:

- Compatibility with existing systems
- Scalability to accommodate future growth
- Security to protect sensitive data
- Compliance with international standards
- Ease of support to minimize downtime

In essence, they needed a partner who could provide a single-point enterprise solution that aligned with their global approach to create value throughout the industrial project lifecycle.

## SOLUTION

### Designing an IT Overhaul in Phases

Epta Layers stepped in with a comprehensive, phased approach that addressed the company's unique needs. By leveraging our expertise as a single-point enterprise solutions provider, we delivered a multifaceted engineering solution that transformed the customer's IT landscape.

#### 1. Designing a Robust Network Infrastructure

Epta Layers began by overhauling the company's network infrastructure, focusing on:

- **Structured Cabling and Fluke Testing:** Ensuring reliable and efficient data transmission.
- **Wired Connectivity Overhaul:** Enhancing network speed and reliability.
- **Enhanced Wi-Fi Connectivity:** Providing seamless wireless access across facilities.
- **Perimeter & Endpoint Security:** Implementing robust security measures to protect sensitive data.
- **Voice Solutions:** Integrating advanced communication systems for better connectivity.

These network enhancements not only improved operational efficiency but also ensured the company was well-prepared for future expansions.

## OVERVIEW

In the constantly evolving field of engineering, the need for cutting-edge technological solutions is paramount. One Engineering Company, operating in over 40 countries, had a vision to revolutionize their IT infrastructure to support their renewable energy project into the grid, replacing diesel generators with electric mobility solutions, and implementing SCADA systems for natural gas pipelines. However, they were looking for a single partner to fulfill the requirement.

## 2. Upgrading Workstations for High-Performance Demands

The engineering projects required workstations with exceptional graphic capabilities. We provided:

- **High-Resolution Systems:** Configured to support multiple Full HD resolution displays.
- **Long-Distance Signal Transmission:** Using Transmitter and Receiver KVM to maintain performance integrity.

This upgrade allowed the engineering team to handle complex design tasks with ease, significantly enhancing productivity.

## 3. Implementing Scalable Server Solutions

To support the company's dynamic software needs, Epta Layers introduced:

- **Dynamically Sized Servers:** Customizable based on software prerequisites to ensure optimal performance.
- **Converged Infrastructure:** Allowing for easy scalability and zero downtime.

These server solutions provided the company with the reliability and flexibility needed to tackle large-scale projects without interruption.

## OUTCOMES

### Enhanced Efficiency and Future-Ready Solutions

The implementation of Epta Layers' tailored solutions yielded remarkable results:

- **Streamlined Project Workflows:** Integration with R&D processes facilitated timely project delivery.
- **Increased Efficiencies:** Optimized collaboration between IT and non-IT teams.
- **Reduced Project Lifecycle:** Helped in accelerating project completion and delivery.

The success of this project led the engineering company to adopt Epta Layers' approach across other client projects, underscoring the effectiveness of our tailored IT infrastructure services.

**For more details, contact**  
**[santhosh.baragur@eptalayers.com](mailto:santhosh.baragur@eptalayers.com)**

## SOLUTION HIGHLIGHTS

- Fluke testing to ensure reliable and efficient data transmission via structured cabling.
- Wired and wireless connectivity infrastructure overhaul across facilities.
- Endpoint and perimeter security to protect sensitive data.
- Voice and high resolution display solutions to upgrade the client team's engineering infrastructure.
- Dynamically sized server solutions to ensure optimal software performance.
- Scalable network infrastructure to improve system reliability allowing for zero downtime.



**Epta Layers**