

EPLAN – efficient engineering

# thyssenkrupp recasts timelines with EPLAN, achieving 50% savings in engineering hours

thyssenkrupp Industries achieved 50% savings in engineering hours along with flexible client specific reporting and error-free drawings.

thyssenkrupp Industries India is an undisputed leader in turnkey industrial engineering services. It is a part of the Industrial Solutions Business Area of thyssenkrupp AG, Germany.

The diversified portfolio of solutions includes installation and commissioning of the most advanced Sugar Plants & Machinery, Open Cast Mining & Bulk Material Handling Systems, Cement Plants & Machinery and Industrial Boilers & Power plants. Engineering prowess, superior technology and world class infrastructure are a part of the global success story of thyssenkrupp. Figuring on the Global 500 List for 25 years, the German giant is present in India through two state of the art manufacturing units in Pune and Hyderabad.

The scale of accomplished projects are primarily the result of a technology driven approach that leverages the engineering expertise of thyssenkrupp. The conglomerate owes its status as a service provider of choice for the largest industries across the world, to the constant improvements in project handling. The passion to surpass expectations drives the efforts of the company in search of new avenues for improvement.



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# Leveraging EPLAN Engineering Solution for optimized efficiency in workflows

The nature of plant design and erection posed a challenge in thyssenkrupp's plant installation and commissioning workflows. Laying of cables are an early part of the erection process in engineering activities. However, the need for E&I integration with multiple vendors who contribute to projects moves the cable engineering documentation to the last phase of E&I engineering. This adversely impacts project timelines, leaving a very small window for cable engineering documentation.

thyssenkrupp explored multiple options to slash the time required for documentation without compromising on the outcome of documentation. Despite the use of EPLAN Engineering Solutions for close to a decade, gaps were observed in maximizing the potential of the solution. Assessment of the challenges and the nature of the process flow revealed the need for a rejig of the documentation process to considerably speed up the entire workflow.

Integration with EPLAN EEC One resolved issues, slashing engineering hours by half

Data inputs from multiple vendors in Excel format required integration in a manner that sped up the process. The EPLAN EEC One Module is an advanced offering from the EPLAN stable that helps in the generation of schematics in desired formats with inputs from Excel file formats. The EPLAN EEC One works in tandem with EPLAN Standard Solutions and generates documentation at high speed without the need for manual intervention. The seamless integration of EPLAN with EPLAN EEC One is designed to create a smooth process flow without the need for additional layers of complexity. By avoiding the need for a complete overhaul of well-established processes in thyssenkrupp, the solution prevented additional integration and training requirements.

# Overall benefits from EPLAN EEC One and EPLAN Electric P8

The integration of EPLAN EEC One with EPLAN Electric P8 uncorked productivity and elevated efficiency to a different level in project installation and commissioning. The ability to fully meet client specifications, with customized formats, in a manner that is totally error-free cut down on rework that used to add to the stressed out timelines in projects. Errors in documentation have catastrophic results on the scope and progress of projects, impacting outcomes in more ways than one. Accurate, error free drawings are pivotal in nature and determine the quality, progress of installation and commissioning.

EPLAN EEC One and EPLAN Electric P8 facilitate in generation of schematics from standardized schemes that prevent the possibility of errors. The solution was designed to meet the specific needs of thyssenkrupp, which included the development and integration of specific toolbars that were purpose driven and client specific. Customer specific functionalities and features in the integrated solution helped cut down time and complexities and the generation of macros. Training sessions were exhaustive and intensive, transferring complete knowledge to engineers and team members in utilizing all features. The use of live examples during sessions, helped the entire team to understand the assets and the manner in which various options could be exercised for desired outcomes.

The integration, training, and deployment were carried out in a manner that included a complete understanding of the desired outcomes, and an in-depth assessment of the challenges. The solution turned out to be purpose-built and customized to address client specific requirements; different from modular solutions.

# Standout, measurable benefits by the numbers

- thyssenkrupp achieved 50% savings in engineering hours by implementing the solution. This was achieved seamlessly, without the introduction of additional complexities or processes.
- The generation of cable engineering documentation accounted for 6.4% of total engineering hours. Importantly, the timings of the requirement adversely impacted the entire process flow when delays were experienced. With EPLAN EEC One and EPLAN Electric P8, the achievements were two-fold : the actual savings in time, and the mission critical contribution of documentation in project workflows.

“ EPLAN EEC One, a higher end engineering solution from EPLAN has brought in high productivity & efficiency and helped us to effectively utilize the EPLAN Electric P8. ”

“ I also wanted to express my thanks and appreciation to EPLAN for conducting the training, understanding our requirements, providing guidance and support in a very professional & planned manner, due to which the team remained motivated and focused. The team completed the project within a short time and realized the goal of achieving higher productivity & efficiency. ”

- Sunil Sagane, Head E&I, thyssenkrupp Industries

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