

Enabling efficient power plant delivery through

precision engineering

Steel fabrication detailing for an 875 MW combined-cycle gas turbine power plant in Italy

Customer challenge

Siemens Energy, Italy, needed engineering support for an 875 MW combined cycle gas turbine power plant in Italy as a part of the transition from coal-based generation to cleaner, more efficient power. The project demanded complex modular fabrication with precise coordination across structural, piping, mechanical, insulation, valve, and support systems.

Key requirements included codal compliance, fabrication readiness, design quality, and strict schedule adherence, while ensuring each transportation unit could be delivered as a ready-to-install module with minimal site rework.

Cyient's solution

We delivered end-to-end steelwork fabrication engineering and detailing for approximately 700 MT of steel structures, covering pipe rack modules, prefabricated skids, and other skids.

Connection design, fabrication and erection drawings, weld mapping



Integration of steelwork inputs into 3D engineering models



Design optimization for fabrication and assembly



Standardized module interfaces to support coordinated shop assembly



Embedded compliance checks, documentation traceability, and BOMs

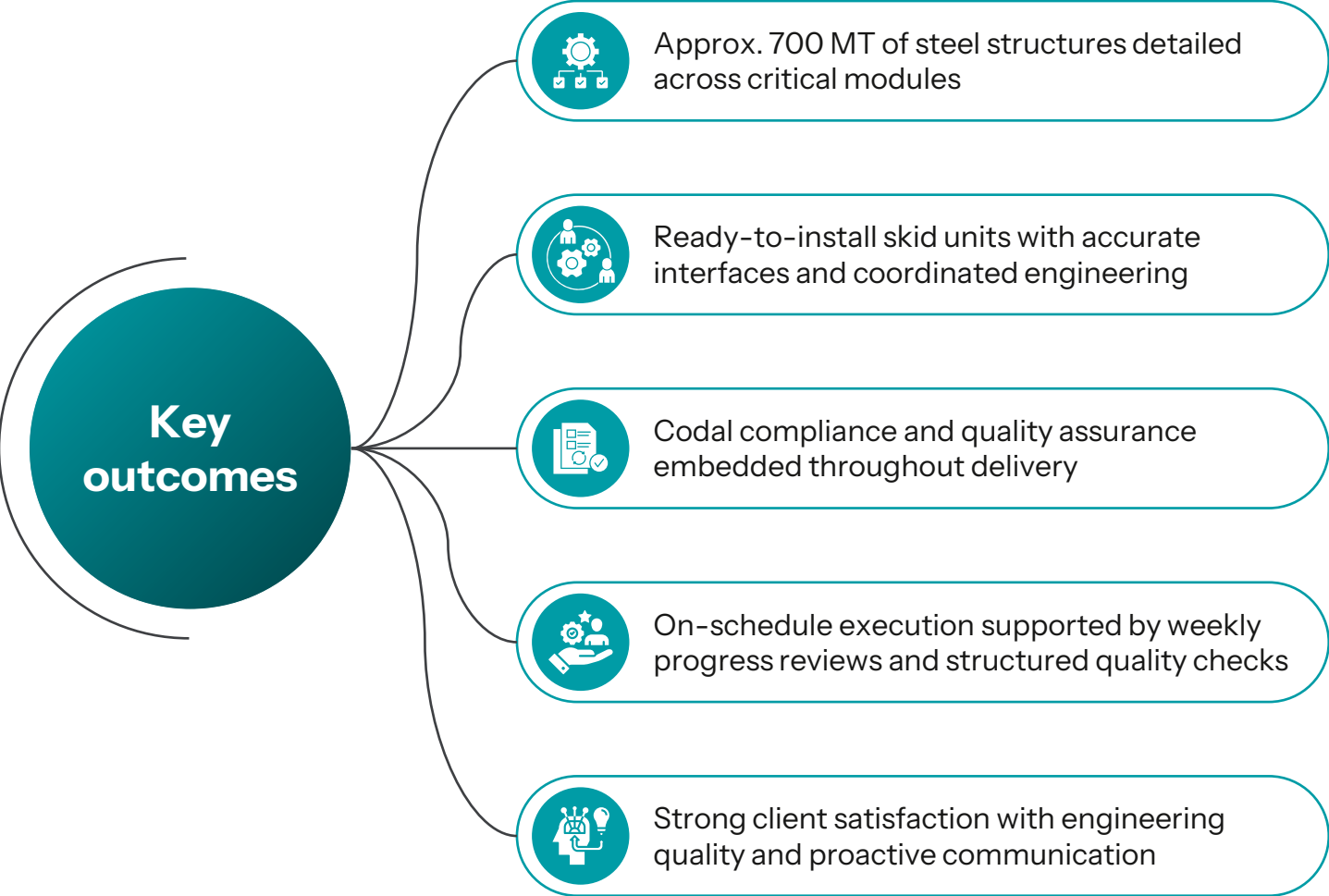


Execution aligned with Eurocodes and the Italian National Annex



Business impact

Cyient’s precision engineering enabled Siemens Energy to deliver a complex modular power plant project seamlessly, meeting requirements for compliance, fabrication readiness, and schedule adherence.



This is precision engineering in action

By combining steelwork detailing, 3D modeling, compliance checks, interface coordination, and documentation traceability, Cyient helped Siemens Energy deliver a next-generation power plant with efficiency and reliability.

Ready to strengthen engineering delivery for your next project?
Get in touch with us today.

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

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