SMARTPLANT® ENTERPRISE ENABLES SLECC TO ACCELERATE SCHEDULES FOR ENHANCED GLOBAL COMPETITIVENESS

Next-generation Intergraph® technology provides Chinese engineering with a complete project solution to boost productivity

IDENTIFYING GOALS

Shengli Engineering and Consulting Company Limited (SLECC) is a leading Chinese engineering, procurement, and construction (EPC) company, and a Grade-A registered survey and engineering institute. Since its founding in 1965, it has completed more than 60 domestic and international oilfield surface engineering projects.

Facing an increasingly competitive global marketplace, SLECC sought an integrated EPC solution that would further enhance its capabilities to meet the challenges and requirements of international projects. Its key objectives were to develop its EPC business further by improving project management, to speed up project schedules, and to enhance its core competitiveness. These strategic objectives are aligned with SLECC’s vision to build its reputation as a leading international engineering company and to take on more global projects.

OVERCOMING CHALLENGES

• Establish integrated engineering environment to meet requirements of all project phases and improve project management
• Respond faster to customer needs in a dynamic, ever-changing global market

REALIZING RESULTS

SLECC recognized that it needed to choose a vendor with the capabilities to support its goals and help in building its international reputation. After a comprehensive evaluation of all the solution providers in the market, SLECC chose Intergraph® and the SmartPlant® Enterprise integrated suite of solutions to establish its enterprise engineering system because of Intergraph’s global leadership position and its proven track record in the industry.

“Our drive to continuously improve our service offering and expand our business globally was a major consideration in our choice of Intergraph’s SmartPlant Enterprise," said Yang Li Peng, Information Management System project director at SLECC. "We recognize that SmartPlant Enterprise is proven, established technology in the marketplace and offers a powerful portfolio of best-in-class applications that will enable us to be more responsive to the dynamics of our market.”
SmartPlant Enterprise offers industry-leading design and data management solutions, enabling SLECC to capture integrated engineering knowledge at the enterprise level for the competitive advantage. SmartPlant Enterprise's integrated suite of solutions enables proven productivity gains, improving engineering efficiency by up to 30 percent. This is why the majority of plants built worldwide are designed using Intergraph solutions.

SLECC selected several SmartPlant Enterprise solutions, including SmartPlant 3D, SmartPlant Foundation, SmartPlant Instrumentation, SmartPlant Electrical, SmartPlant P&ID, and SmartPlant Reference Data. By establishing an integrated engineering system enterprise-wide, SLECC is able to support all of its design and engineering projects across all EPC processes.

"We see SmartPlant Enterprise as a complete project solution that meets all our requirements from design to construction, operations and maintenance, and other work processes." said Yang. "In addition, its global worksharing capabilities enable us to engage with international companies and deliver engineering data to owner operators on the same platform."

The implementation of SmartPlant Enterprise has delivered several benefits to SLECC. The integrated engineering platform with intelligent rules and automation built-in has improved design workflows at SLECC, resulting in more effective project management. With the boost in productivity, the EPC has been able to meet tight project schedules. Increased accuracy in engineering data has also led to reduced rework and material waste, delivering significant cost and time savings. For example, for mid-sized oil and gas EPC projects, SLECC found that it can accelerate the project schedule by two months with cost savings of 20 percent.

In addition, the deployment of a standard engineering platform across the entire enterprise has enabled SLECC to establish collaborative work processes. This is aligned with international project management best practices, ensuring that the company is fully equipped and prepared to take on global projects.

"SmartPlant Enterprise is truly an indispensible tool when collaborating with other companies on global projects," said Yang. "Intergraph has helped us tremendously in realizing our vision to be an international player in the market, and has enabled us to be more productive and competitive."

MOVING FORWARD

Today, SLECC has standardized on SmartPlant Enterprise. The integrated suite of solutions is used company-wide for all of the EPC’s design and engineering projects. SLECC is continually looking at innovative ways to enhance its use of the system so that it will continue to deliver maximum benefit and value to the company.

For example, SLECC has customized SmartPlant Instrumentation for its specific purposes, with the input of the company's own existing range of templates. This gives SLECC greater flexibility in using SmartPlant Instrumentation for both domestic and international projects, and expands its applicability across a wider range of projects.

Another enhancement that SLECC has implemented is ensuring that SmartPlant Reference Data meets the requirements of SINOPEC’s procurement department. SmartPlant Reference Data codes are compatible with and correspond with SINOPEC’s codes. The company also included material code descriptions in Chinese and English to cater to the needs of both local and international users.

"We will continue to enhance our implementation of SmartPlant Enterprise to meet both local and international requirements so that it delivers increased safety, quality, and productivity to our engineering projects for years to come," said Yang.