



SK E&C Selects ASD's OptiPlant for early stage project engineering and design

Goal to significantly improve productivity and profitability in executing large capital projects

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San Francisco, CA and Seoul, South Korea: ASD Global, a leader in knowledge-based engineering software solutions for Front-End Loading (FEL), Front-End Engineering Design (FEED), early stage Detail Design, and Construction planning of projects for the Process, Power, and Marine industries; and ASD's local Agent, KorACE, a leader in Korea in providing engineering services, training and support services, are proud to announce that SK Engineering and Construction (SK E&C) is now a customer.

SK E&C is a leading engineering, procurement, construction and maintenance services company, and part of South Korea's SK Group. SK E&C has implemented ASD's OptiPlant and Pipe Stress Optimizer (PSO) products as part of their solution for their early stage layout, detailed design, engineering, and construction planning process for large capital projects.

ASD's OptiPlant is a 3D knowledge-based engineering application for developing and optimizing plant layouts, using automated modeling and auto-routing of pipe and electrical components. OptiPlant optimizes the plant layout through an iterative process that is fast, interactive, and involves multiple disciplines; including equipment, piping, process, electrical and civil/structural. OptiPlant also provides features to plan and generate Engineering and Construction Work Packages, schedules and sequences to support Automated Work Packaging (AWP) best practices supporting early stage construction planning for a project. Other deliverables include drawings, reports, and MTO's. All the data can be carried forward to the next stage of the project and is not thrown away.

Pipe Support Optimizer (PSO) is a fully integrated tool to automatically locate and select logical supports and validate the results through a detailed stress analysis. With PSO, users can eliminate the manual trial and error steps to determine optimal support locations and eliminate the current design cycles between piping and stress. PSO automatically identifies feasible pipe support locations according to practical distances from supportable structures, and only feasible support locations are considered for pipe support location optimization.

SK E&C will be exporting the output from OptiPlant and PSO to their existing Intergraph® Smart 3D system for the detailed design, construction and O&M planning of a facility.

Jin Woo Joo, deputy manager and senior expert for Plant IM&T at SK E&C, said, "We look forward to using our ASD products to enable SK E&C to select the optimal plant layout and design for our customers in the shortest

time, based on maximum safety and minimum cost. The smooth integration of the ASD tools to our existing Intergraph environment is also a critical part of our design workflow.”

ASD Global vice president of Strategy and Global Business Development, Rob Glasier, says, “We are pleased that SK Engineering & Construction has selected ASD, and are looking forward to working with them to increase optimization and productivity for all front-end projects for their customers.

Mr. Se Eun (SE) Kim, president and owner of KorACE said, “I am very excited to have SK E&C make this decision. They are a very prestigious company in Korea, and I look forward to working with them to help them significantly improve their productivity and profitability in executing their large capital projects”.

About SK Engineering & Construction

SK Engineering & Construction (SK E&C) is an engineering, procurement, construction and maintenance services company. It is one of the 96 companies making up the SK Group, a leading South Korean conglomerate. With an annual turnover of US\$4 billion, SKEC has over 8,000 employees responsible for the execution of more than 25 projects, both in South Korea and internationally, across sectors including: Oil & Gas, petrochemical, power, environmental protection, industrial, civil, building, housing, and services such as feasibility study, EPC service, project management, operations and maintenance. For more information, visit: www.skec.com.

About KorACE

KorACE supports Korean companies by providing the engineering and product expertise necessary to efficiently execute the pre-FEED, FEED, early-stage Detail Design, and Construction Planning stages of large capital projects, in order for them to gain the maximum advantage from the software tools that they have; ensuring the best designs, at the lowest cost, with the most efficient schedules. KorACE is the exclusive Agent for ASD Global and its suite of products used for executing this work. KorACE can provide consulting and engineering expertise, training, and other support services to ensure its customers’ success.

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About Intergraph Process, Power & Marine

Soon to be known as Hexagon Process, Power & Marine, Intergraph Process, Power & Marine is the leading global provider of engineering software for the design, construction and operation of plants, ships and offshore facilities.

Process, Power & Marine is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity across geospatial and industrial enterprise applications.

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About ASD Global

ASD Global, Inc., is an established leader in providing Knowledge based engineering software and industry focused business solutions; offering a wide range of solutions and services to all disciplines and phases of engineering, construction, and project management for Process, Power, and Offshore Plants globally. ASD was founded in 1984 to fulfill the immediate and long-term needs of the Power Industry by developing and applying cutting edge technologies to substantially reduce the total costs of commissioning major nuclear and fossil power plants. Today, ASD provides solutions and related services for the Front-End Loading (FEL), Front-End Engineering Design (FEED), Detail Design, and Construction phases of any industrial plant project. ASD has steadily grown within the Plant Industry as the leading provider of automation solutions to improve productivity. ASD's solutions produce significant benefits related to quality, schedule and cost for Refineries, Gas, LNG, FPSO, Power, Pharmaceutical and new alternative energy plants.

ASD products combined with our extensive domain knowledge help our clients optimize their critical work processes and significantly improve their efficiency and profitability. ASD also provides transforming advanced state-of-the art application technology solutions for State and Federal Governments, as well as many Fortune 500 commercial enterprises.

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