

Press release



IMMEDIATE RELEASE

22 March 2019

SCG Chemicals Company chooses gPROMS modelling for digital design and operations

Next-generation tools help accelerate innovation, create competitive advantage

LONDON, 22 March 2019--- Process Systems Enterprise (PSE), the Advanced Process Modelling company, today announced that it has signed a long-term agreement with SCG, one of the largest integrated petrochemical companies in South East Asia, to standardise on PSE's gPROMS modelling technology for digital design and operations.

SCG applies advanced process models within digital design initiatives to explore the process decision space rapidly and effectively, in order to reduce uncertainty and make better, faster and safer design and operating decisions. This help them to accelerate innovation and optimise the design and operation of their process plants.

Dr Suracha Udomsak, SCG's Emerging Business Director and R&D Director, says, "at SCG Chemicals, advanced process modelling (APM) is a key element in our Digital Manufacturing platform. APM accelerates innovation by making the development workflow 'faster, cheaper & safer', which are key considerations for us. It is a core technology building block that enables us to discover and develop new products – for example, new-generation polyethylene – and accelerate their time to market".

PSE's gPROMS is widely used throughout the chemicals, energy, petrochemical, food and pharmaceuticals sectors to accelerate innovation and optimise existing operations. Its key advantages are the ability to represent complex processes to a high degree of predictive accuracy using high-fidelity multi-scale models. These can then be used in large-scale process and plant optimisation to maximise economics, and for systematic exploration of the decision space to reduce risk and uncertainty. The new gPROMS Digital Applications Platform now makes it possible also to implement high-fidelity models online for monitoring, forecasting and optimisation, to generate value from day to day.

Says Mr Surachate Chalothorn, SCG's Process Technology Director, "We apply modelling in three main areas: Operational Excellence, for process optimisation and debottlenecking; in new product development, in order to speed up development and reduce risks in plant trials; and in technology development, to provide a virtual lab for pilot testing."

James Marriott, head of PSE's Energy & Chemicals division, said "we are very pleased to be working with innovators like SCG, where the next-generation modelling capabilities that we have to offer can really make a difference."

For Editors

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About SCG Chemicals

SCG Chemicals (www.scgchemicals.com) is one of the largest integrated petrochemical companies in South East Asia and a key industry leader. We manufacture and supply a full range of petrochemical products ranging from upstream monomers to downstream polymers including polyethylene, polypropylene, polyvinyl chloride, polystyrene and MMA.

About Process Systems Enterprise Ltd (PSE)

PSE (www.psenderprise.com) is the world's foremost provider of Advanced Process Modelling software, services and solutions to the process industries. Companies apply advanced process models within digital design and digital operations initiatives to explore the process decision space rapidly and effectively, in order to reduce uncertainty and make better, faster and safer design and operating decisions.

PSE provides gPROMS advanced process modelling products built on the company's gPROMS® equation-oriented platform. The two core desktop environments for engineers and scientists are the gPROMS ProcessBuilder® flowsheeting environment for optimising fluid process design and operation and the gPROMS FormulatedProducts® environment for integrated design and optimisation of formulated products and their manufacturing processes. The company also provides a number of gPROMS Operational Excellence Solutions for online operational monitoring, optimisation and planning based on high-fidelity models, built on the gPROMS Digital Applications Platform.

The unique advantages that PSE tools bring are the combination of high-fidelity models, powerful mathematical optimisation and global system analysis capabilities, and an equation-oriented framework capable of rapid and robust solution of complex problems. Use of PSE's technology and services results in faster innovation, improved process and product designs, enhanced operations, reduced risk, more effective R&D and experimental campaigns and better capture and transfer of corporate knowledge across the organisation.

PSE's global customer base of Fortune 500 process industry companies and some 200 universities is served by operations in the UK, USA, UAE, Japan, Korea, China and Taiwan.

PSE is committed to defining, developing and driving the adoption of next-generation process modelling software and workflows.