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News Release

TOYO launches “Digital Fertilizer” for Indonesian Fertilizer plant

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Toyo Engineering Corporation

Toyo Engineering Corporation (TOYO, President and CEO Kiyoshi Nakao) has developed and launched the first “Digital Fertilizer” for the fertilizer plant (production capacity: 2,750 tons per day of urea) owned and operated by PT Pupuk Sriwidjaja Palembang (PUSRI) in Palembang in South Sumatra, Indonesia as a subsidiary of state-owned Indonesian fertilizer company, PT Pupuk Indonesia. “Digital Fertilizer” is an IoT system that contributes to improving operating rates and plant profitability by continuously monitoring and analyzing plant operations and key performance indicators (KPIs) of the plant.

TOYO and General Electric Company (GE) signed a Memorandum of Understanding for a joint project to explore digital solutions for the fertilizer and petrochemicals industry in December 2016. Under the MOU, TOYO and GE jointly developed “Digital Fertilizer” on GE Predix, which is a unique cloud-based platform built exclusively for industry by using TOYO’s expertise in processes and plant operations as Licensor of Urea synthesis and granulation technologies and as EPC contractor of fertilizer and petrochemical plants. System integration of “Digital Fertilizer” on Predix was conducted by NEC Corporation (NEC), which has entered into a comprehensive alliance with GE.

PUSRI’s fertilizer plant was built by TOYO with TOYO’s Urea Synthesis (ACES21®), which is known for lower utilities consumption. The implementation of this technology brings PUSRI as environmentally friendly fertilizer plant. TOYO will continue to develop digital solutions that harmonize humans, machines and data for the fertilizer and petrochemicals industry by using Big Data accumulated through “Digital Fertilizer”, and will also aim to implement “Digital Fertilizer” in TOYO’s more than 100 licensed fertilizer plants around the world.

TOYO will expand the “Digital Plant” business not only for fertilizer plants but also for petrochemical plants with the aim of contributing to optimal enterprise management of various plants.

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