



SIEMENS

Sumatra sweets

Sutech, Thailand

Refining raw sugar into its processed form requires a great deal of energy. Sutech needed a process control system for a new refinery in Medan on the island of Sumatra, Indonesia, that would be safe and reliable. Siemens was happy to assist with its specially designed Nahmat application.

The sugar industry in Southeast Asia is undergoing rapid expansion to meet the demand of growing populations in Indonesia and Vietnam and the strong economies in Thailand and Malaysia. Large investments in modernization measures and the construction of new plants are currently being made to enable highly efficient regional sugar production. Sutech, based in Bangkok, is one of the major engineering, procurement, and construction (EPC) companies supplying and designing new sugar production plants throughout the region. Continuing a decade-long partnership, Siemens was chosen as the technical partner to supply a process control system for a new sugar refinery in Medan, Indonesia.

Sugar refineries require huge amounts of power to process raw sugar into its refined form. To ensure that energy levels were managed safely, a central control room was needed that would provide reliable monitoring of all sugar refining activity, but with minimal operator intervention.

Optimized process control with the Nahmat application

Siemens has worked with Sutech on many sugar-production projects with highly variable requirements. This experience has led to Siemens developing standardized automation layouts for sugar factories and refineries. In each project, the Simatic PCS 7 process control system is used as the basic control system. Its globally standardized libraries and functionalities make its implementation straightforward. For the sugar crystallization process, Siemens has developed the Nahmat application. Its cutting-edge technology and advanced control features allow plant staff to optimize the ever-changing parameters when processing sugar. In addition to Simatic PCS 7 and the Nahmat application, Siemens supplied the Medan refinery with advanced field instruments to provide accurate flow, temperature, and pressure measurements.

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