



Chevron Lummus Global

Media Release

CLG Announces Technology Award for Shandong Sincier Petrochemical Co., Ltd. (Sincier)

Chevron Lummus Global (CLG) has been awarded a contract by Shandong Sincier Petrochemical Co., Ltd. (Sincier) for the technology license, engineering services and catalyst supply of three grassroots hydroprocessing units at two refinery sites in Dongying, Shandong Province, People's Republic of China.

The existing refinery will utilize CLG's VRDS vacuum residue desulfurization technology equipped with UFR (Upflow Reactor) to produce high quality RFCC feedstock. The new refinery will incorporate LC-MAX residue hydrocracking technology, the first commercialization for a grassroots unit; and ISOCRACKING technology for full-conversion of gas oils integrated with CLG patented Split-Feed ISOTREATING for upgrading distillates.

"We are honored to be trusted by Sincier to be the key refinery technology partner for both their existing and new refineries, where we will deploy several technologies to convert heavy oil residues to lighter products," said Leon de Bruyn, Managing Director of CLG. "Our Split-Feed injection has demonstrated to be the most integrated and economical hydroprocessing route to finished distillate products from VGO. The UFR/VRDS and LC-MAX processes are both recognized by refiners to be attractive solutions to convert heavy oil residues to higher value streams."

CLG invented the LC-MAX technology and was granted the LC-MAX patent in 2012. This state-of-the-art residue conversion process enables refiners to convert bottom of the barrel to higher value distillates. LC-MAX can achieve as high as 90% conversion of vacuum residue, even for very difficult feeds.

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