

Stamicarbon BV bags contract for ultra-low energy urea plant in China

25 April 2023 | News

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Netherlands based Stamicarbon, the innovation and license company of MAIRE Group, has signed a contract covering PDP, licensing and equipment supply for an Ultra-Low Energy grassroots urea plant in Jiangxi province, China. This will be the largest Stamicarbon Ultra-Low Energy plant with a design capacity of 3850 MTPD and already the seventh plant based on this innovative design.

Stamicarbon will deliver the Process Design Package and the proprietary Safurex® high-pressure equipment and associated services for the urea melt and prilling plant. Unlike the previous Ultra-Low Energy plants, which featured Pool Reactor technology, this design will apply the Ultra-Low Energy principle to the Pool Condenser.

The Ultra-Low Energy Design allows heat supplied as high-pressure steam to be used three times instead of two, reducing steam consumption by about 35% and cooling water consumption by about 16% compared to traditional CO₂ stripping processes, as demonstrated in two plants currently in operation. This technology brings energy savings unrivalled by any competitor.

“This award is significant, being Stamicarbon’s largest Ultra-Low Energy urea plant to date and the first plant where this breakthrough technology is applied to a pool condenser. It shows Stamicarbon’s commitment to innovation and technology development to improve the sustainability of the fertilizer industry,” said Pejman Djavdan, Stamicarbon CEO.