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Styrene by CB&I/UOP Classic Technology

Process Economics Program Review 2017-09

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Technology

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Abstract

Styrene consumption in the United States in 2016 was roughly 3.3 million metric tons/year. Styrene is expected to grow at an average annual consumption rate of 0.8% during the time period 2017–19. In this review, we look at the production of styrene by CB&I/UOP (previously Lummus/UOP) “Classic” technology.

This review updates the process of Lummus Crest/Monsanto/UOP resemblance of “Classic” technology that was presented in IHS Chemical (formerly SRI Consulting) PEP Report 33C, Styrene, published in March 1993. The focus of this review includes capital and production costs for 500,000 metric tons/year of styrene product. An interactive module is included—the iPEP Navigator for styrene—which provides a snapshot of the process economics and allows the user to select the units and global region of interest.

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