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### Achieving Best in Class Performance for Light Olefins Production

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#### Synopsis

The majority of the world's petrochemical ethylene and propylene is produced by steam cracking ethane, propane, butanes, and heavier hydrocarbons. The production facilities include a high temperature pyrolysis section followed by a low temperature recovery system to separate the cracked products. The facilities are capital and energy intensive and there is significant incentive to incorporate the latest technology features to improve overall production economics. This presentation reviews key elements of modern light olefins production technology that can be used to achieve best in class performance for the production of petrochemical ethylene and propylene.