

Energy Efficiency Improvement of Naphtha Splitter Process by Utilizing Side Rectifier Configuration

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Naphtha feed stock is separated into light naphtha, heavy naphtha and light kerosene in sequence. Systems and methods of naphtha feed stock are destined for a conventional distillation sequence and other applications with less energy consumption than conventionally possible, while producing less greenhouse gas emissions. According to the more examples of such systems and methods, such reductions are accomplished by directly integrating conventional column together or using other advanced configuration. A lesser number of facilities are provided and correspondingly less capital investment as well as operating cost reduced. The results showed that the side rectifier can achieve the significant benefit compared to the conventional distillation sequence.

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