

## PINCH STUDY OF PREHEAT EXCHANGERS



### WHERE?

Crude Oil Refinery, in Mumbai, India

### WHY?

Challenges Addressed

- No immediate capital expenditure possible. Identification of maximum possible preheat using existing preheat system, with its limitations.

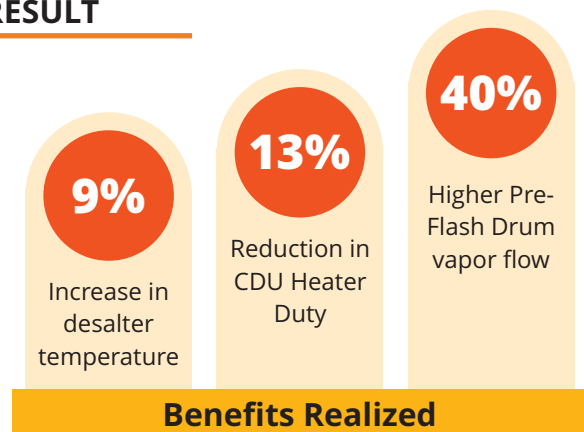
Goal

- Pinch study of Crude Preheat exchangers

Engagement

- Crude Preheat Maximization

### RESULT



#### Benefits Realized

Identified possible Annual savings of US\$ 700,000 by adding a heat exchanger to the network

### SOLUTION AND EXPERT SERVICES DEPLOYED

- Developed simulation model, created existing HEN in Aspen Energy Analyzer and explore different HENs using Pinch principles for preheat maximization

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