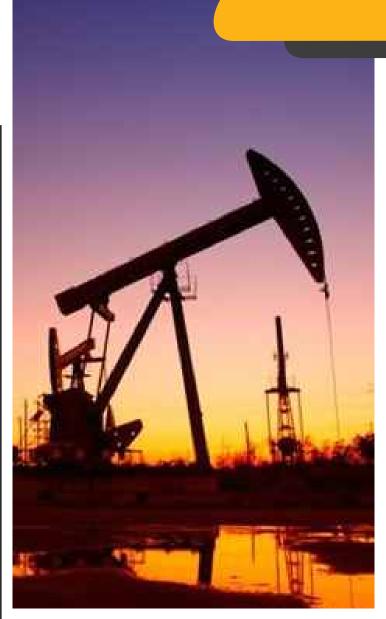


ENERGY SAVINGS FROM HOT OIL NETWORK



WHERE?

Petrochemicals facility in Jubail, KSA

WHY?

Challenges Addressed

 Hot Oil Network being operated at high pump discharge pressures and very high pressure drops across CVs leading to excess power consumption in the circuit

Goal

Identify energy savings opportunities

Engagement

Reduction in energy consumption and OPEX across the Hot Oil Exchanger Network

RESULT

Benefits Realized

Network was corrected for rightly sized FLOW ELEMENTS & CVS

Reduction in overall power consumption from 2.1 MW TO 1.22 MW - ~40% POWER REDUCTION

Annual savings of US\$ 314,000

SOLUTION AND EXPERT SERVICES DEPLOYED

- Built Steady state hydraulic model in AFT Fathom, validated against plant operating data for CV openings and pressure readings.
- Highlighted MAPD across circuit components providing opportunity for reducing pump discharge pressure and overall power

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