

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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