

DIGITAL TWIN OF A LAB & N-PARAFFIN UNIT

WHERE?

Petrochemical (LAB) facility in Jubail, KSA

WHY?

Challenges Addressed

- Data unavailability, full complex analysis

Goal

- Pinch Study to identify avenues for reducing energy consumption

Engagement

- Improve Energy Intensity

RESULT

Benefits Realized

Utilities utilized as efficiently as possible

Resulted in use of a process stream to reduce use of utilities for heating/cooling

Reduced the inherent need of heating/cooling for the process

Benefits - \$300,000

SOLUTION AND EXPERT SERVICES DEPLOYED

- Onsite data collection, utilities audit, data generation, creating a Digital Twin, Pinch analysis using customized models, process analysis and what-ifs.



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