

Delivered additional profit of US\$ 1.02 million per annum by removing the Diesel Hydro De-Sulphurization (DHDS) feed heater firing limitation

BUSINESS CASE

Economic Trends

Reduction in Gross Refinery Margin (GRM) due to increase in operating cost of process units

Environmental Trends

Higher raw water consumption for production of additional steam, leading to increased utilization of natural resources

CHALLENGE

What is the challenge

- Limitation of firing in Diesel Hydro Desulphurization (DHDS) Feed heater, due to the risk of a higher skin temperature beyond the design limit of 450°C
- If not controlled, this would lead to a severe damage of feed line which goes through the reactor that produce diesel

Where is the challenge

Reactor heater in the DHDS unit

From when is the Challenge

From August 2014
(for over 24 months)

IMPACT

What is the impact

Increased consumption of High Pressure (HP) Steam in HP Steam heater resulting in reduced profitability and GRM

How much is the impact

On an average an additional 4.5 Tonnes per hour (TPH) of HP Steam is consumed, costing the refinery an additional amount of US\$ 1.49 mn in the last two years

TARGET

What is the Target

Reduce HP Steam Consumption in HP steam heater

How much is the Target

Reduce HP steam consumption from 4.5 TPH to 1.3 TPH, to increase profitability by US\$ 0.73 mn / annum

OUTCOMES

Improved Profits

Additional profit of US\$ 1.02 million/ annum

Leaders of Tomorrow

Belief system within employee towards sustaining the reduced resources usage and continued business impact

Environment Resources

- Reduction in raw water consumption of 34,020 MT / annum resulting in reduction in consumption of natural resources

Delivered using:

KINDUZ Services: Continual Improvement | Culture Transformation | Leadership Augmentation

KINDUZ Intellectual Property: QADES | AEIOU | LSSIB | The EPMA

