

Delivered additional profit of US\$ 4.1 million per annum by reducing energy consumption across refinery, thus lowering Energy Intensity Index (EII)

BUSINESS CASE

Environmental Trends

- Most refineries in the world have an annual target for Energy Intensity Index (EII)
- Higher EII shows higher energy consumption in the refinery as compared to benchmark refineries
- Higher energy consumption results in increased carbon footprint

Organization Trends

- Higher actual energy consumption increases the operations cost, thus reducing the Gross Refinery Margin (GRM)

CHALLENGE

What is the challenge

- Inability for the refinery to achieve the Energy Intensity Index (EII) target
- Higher Energy consumption vis-à-vis the benchmark

Where is the challenge

- All process units at the refinery and offsite locations

From when is the Challenge

- Since 3 years

How much is the Challenge

- EII was 110.2 against the target of 103.2

IMPACT

What is the impact

- Increased energy consumption leads to higher operating cost, reduced profitability and, hence, lower GRM

How much is the impact

- Increased actual energy consumption resulted in US\$ 6.1 million higher energy costs compared to the benchmark refineries

TARGET

What is the Target

- Reduce Energy Intensity Index by at least 7 points from 110.2 to 103.2
- Reduce actual energy consumption by 10% across the refinery

OUTCOMES

Improved Profits

- Additional profit of US\$ 4.1 million per annum through reduced energy consumption across the refinery

Environment Resources

- Reduce Energy Intensity Index by 12.3 points from 110.2 to 97.9
- Reduction in actual energy consumption 9.7%
- Decrease in carbon footprint by 940,333 tons of CO2 emissions

Increased Revenue

- Potential revenue of US\$ 5.6 million per annum through the trading of Carbon Credits

Delivered using:

KINDUZ Services: Breakthrough Improvement | Continual Improvement | Culture Transformation | Leadership Augmentation

KINDUZ Intellectual Property: QADES | AEIOU | VSM^e | LSSIB | The EPMA

