

Best Practice Sharing – GHG emissions

Identify biggest sources of GHG in the processes and products and manage them for example:

- Phase out of fuel oil and introduction of fuel gas has significantly reduced carbon emissions;
- Big crude pump driver conversion (turbines to electrical motors);
- Furnace efficiency project;
- HP steam recovery from SRU; and
- Better preventative maintenance strategy on critical infrastructure to avoid instances where off-gases are routed to the flares.

Best Practice Sharing - Flaring

Identify the biggest sources of flaring and put action plans to reduce:

- Flaring reported on daily basis by the Shift Superintendent to the Daily Assurance Meeting, and identifying the sources and the reasons for flaring;
- Monitoring of flares by the Shift Superintendent and Panel Operators to maintain stable and optimized flame;
- Flaring due to forced burning of butanes from spheres to be conducted according to the Refinery Scheduler's requirements and quantified for reporting in the Daily Assurance Meeting;
- Flare gas flow meters are calibrated on regular basis as per maintenance schedule and defective flow meters are identified and repaired on priority basis;
- Set internal flaring target per day (in tons), and communicated to all employees;
- Purge gas discounted in flaring quantities as it is required to keep the flame burning;
- Flaring reported as losses in monetary value to sensitize Operations and Maintenance personnel to change behaviour;
- Ensure better preventative maintenance strategy is in place for the critical infrastructure to avoid instances where off-gases are routed to the flares; and
- Projects implementation to reroute H₂S offgas away from flares.