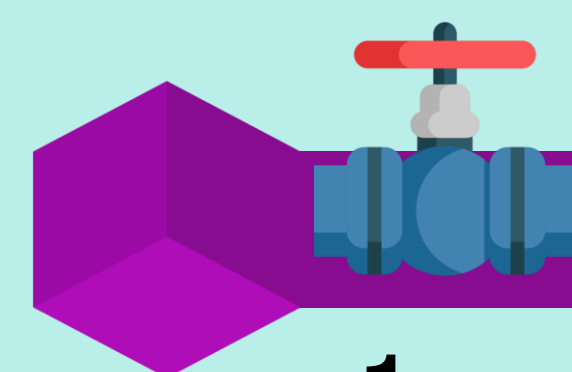
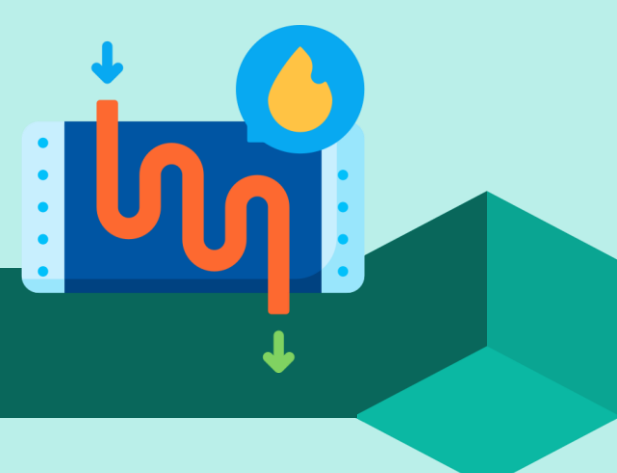


Maintenance Practices Review and Enhancement

Importance of Good Maintenance Practices to Achieve GHG Base Target

Fouling of heat exchanger causes higher cooling duty required which need more energy input. Hence causes higher GHG Emission



1 unit (15 MWh) COGEN is down (due to unplanned outage for 5 days) and causes of importing energy from TNB.

~700.2 tCO₂e (5days)



PRV passing from a hydrocarbon system containing C₂H₆ in a refrigerant system; 1 t/h of PRV passing for 180 days of C₂H₆ and being flared).

12,672 tCO₂e (180 days)

70.4 tCO₂e (1 day)

Enhancement of Maintenance Practices in GHG Reduction Projects to Achieve GHG Stretch Target

Steam Trap Management

- Passing steam traps are source of GHG Emissions due to increase in fuel usage to compensate the steam losses
- An appropriate baseline to be established.
- Methodologies available to be adopted that can be further explored

Methane qualification improvement & LDAR enhancement

- Current reporting at downstream is based on facility-level default emission factors
- Significant drop of fugitive emissions inventory was observed
- LDAR program at OPU with Methane emissions quantification

Do you have any idea on improving GHG emissions through good maintenance practices, feel free to share here:

QR Code HERE