







# Energy and Cost optimisation in refineries and petrochemical industries

Since petroleum products find application in the daily lives of people as fuel, fibre, and fertilizers, the refinery industry is thriving. Stringent environmental limits combined with the rising cost of energy prompts the industry to adopt energy-efficient technology for its plants and processes. Employing absorption cooling technology in refineries can result in energy savings and significant reduction of greenhouse gas emissions.

## Benefits:

-  Yield Improvement by 100%
-  50% water savings
-  Reduced energy consumption
-  Flexibility to seasonal changes

## Our solutions find application in

- Mono Ethylene Glycol (MEG) Absorption
- Capacity Enhancement of Process Heat Exchangers
- Effluent Treatment
- DeHazing Process
- FCCU Yield Improvement

## Our offerings for the industry are

### Steam-driven absorption chiller



High COP of 1.5

### Hot water driven absorption chiller



Offers chilled water up to  $-1.5^{\circ}\text{C}$

## Why Thermax's Solutions?

- Electricity-free cooling and heating
- Low steam consumption
- No vibrating parts
- Low maintenance
- No harmful refrigerants
- No requirement for LiBr/DM Water top-up
- Crystallization-free design
- 24x7 IIoT-based chiller monitoring

