



TNCHE Asia 2025 Conference
" Accelerating Industrial Decarbonization:
Digital-AI and Energy Transformation "
Presenter's Biodata & Abstract



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Title of Presentation : Opportunity to Energy Saving: Waste vapor recovery with PILLER
Heat Pump Solution

Presentation Abstract :

The petrochemical industry in Southeast Asia faces significant challenges in reducing energy consumption, costs, and carbon emissions while maintaining operational efficiency. Low grade vapor is usually discharged to the environment without any recovery mechanism.

This abstract explores the potential of waste vapor recovery utilizing Piller's heat pump technology as a sustainable solution. By capturing waste vapor from strippers, distillation column, evaporator and utilizing Piller's blowers & compressors to recover thermal energy, this approach offers a dual benefit of reducing utility cost and reducing carbon emission.

Through a presentation of Piller's heat pump technology applications in petrochemical plants, including technical and financial evaluations, this abstract demonstrates the economic and technical advantages of using Piller's blowers & compressors as the main element in waste vapor recovery.