



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



Full Name : Kavin Vanijdee
Organization : i-APC Consulting
Current Position : Managing Director



Title of Presentation : Navigating downturn cycles: AI-assisted APC and Digital Twins for cost optimization and sustainable

Presentation Abstract:

Manufacturers in petrochemicals, oil & gas, and energy sectors face increasing pressure to optimize costs while advancing sustainability. AI-Assisted Advanced Process Control (APC) is emerging as a critical solution. This talk explores how AI-assisted Advanced Process Control (APC) and digital twins are transforming industrial operations, enhancing efficiency, and driving sustainability. Using real-world case studies, we'll demonstrate how these technologies optimize energy usage, reduce costs, and support the transition to net-zero manufacturing.