



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



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Current Position : **Licensing Manager**



Title of Presentation : **Bio polyesters: Fast track commercialization of sustainable resins**

Presentation Abstract:

The plastics industry faces significant challenges in achieving sustainable growth, particularly with the complexities of chemical recycling of polyolefin resins and microplastic pollution. The use of bio-sourced feedstocks or recycled materials can help reduce carbon footprints and greenhouse gas emissions globally. Additionally, biodegradability for single-use products and specific applications may offer a viable end-of-life alternative.

Technip Energies is exploring various routes for the accelerated development of bio-polyesters through applied R&D in our labs and pilot plants. These bio-polyesters, due to the intrinsic nature of their chemical bonds, offer specific sustainability advantages for recycling or biodegradation. Bio-sourced or recycled polyester resins provide a global solution for reducing carbon footprints and may also offer biodegradability benefits for specific single-use applications, thereby mitigating microplastic pollution.

Affordability remains a priority to gain public acceptance and enable large-scale industrial deployment. We are convinced that with the right technology, it is possible to reduce overall costs, minimize technology risk, shorten time to market and accelerate the de-fossilization of the plastics industry.



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