



TNCHE Asia 2023 Conference
" Decarbonization of Process Industry and
Next-Generation Materials for Sustainability "
Presenter Bio Data & Abstract



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Title of Presentation : Expeditionary Transitions Toward Safe, Resource Efficient and Decarbonized Future

Presentation Abstract :

The IPCC's recent Sixth Assessment Summary for Policymakers, in unambiguous language strongly reiterated the existential threats of climate change and the inter-connected pervasive impacts and effects on human welfare and well-being, particularly the increase and spreading of pathogens, food safety & security. The challenges and opportunities are in implementing the transitions toward decarbonization and in substituting and phasing out substances and processes that are detrimental to human health and the environment, such as plastics.

The presentation will emphasize the importance of Leadership and Vision, and elaborate on fundamental enabling Principles needed for policies, strategies, management, applications, and technologies with transformative, innovative, integrative, holistic, conserving, inclusive, equitable, sustainable, and resilient attributes, There is an urgency to move away from business as usual, silo approaches and procrastinations, towards HOW and NOW.

The Building Blocks for a Framework, elaborated in the presentation, would include: *Whole-of-Institutions approach; *decarbonizing policies, strategies, management practices, and technologies; *reducing methane emissions; * increasing new, renewable energy, substitution, efficiency, conservation, harvesting; * urban & rural greening; *phasing out plastics, beginning with single-use; *restoring natural habitats and critical ecosystem functions; *expanding use of nature-based systems, eco-mimicking materials, designs, and indigenous knowledge; * transformational changes in education, training, research, behavior and lifestyles that are caring, sharing, less wasteful.* Responsive to aging, young, infirm and vulnerable populations sustaining benefits for present and future generations.