ACADEMY NATURE EVENTS

RSEMEET2025

October 20-22, 2025 | Dubai, UAE

GLOBAL MEET AND EXPO ON RENEWABLE AND SUSTAINABLE ENERGY

https://renewableenergy.academynature.org/ rsemeet@academynature.org

ANNOUNCEMENT

The RSEMEET2025 is open to all **clean** energy related research areas in science and **engineering**.

Renewable and sustainable energy are critical elements in addressing the growing demands of modern society and tackling the environmental challenges we face globally. These energy forms are ubiquitous, driving everything from household appliances to industrial processes, and they play a vital role in maintaining the stability of our power grids. While energy is intuitively understood as the capacity to perform work or produce change, the quest for defining and categorizing energy sources has evolved significantly over time.

Historically, the study of energy sources, including nuclear and renewable options, began to gain traction in the late 19th and early 20th centuries. Key developments in nuclear energy, such as the recognition of fission and fusion as powerful means of harnessing energy, have fundamentally shifted our approach to power generation. Similarly, the advent of renewable energy sources—such as solar, wind, and hydropower—has introduced innovative methods for capturing and utilizing energy sustainably.

Wind power and hydropower, in particular, are closely intertwined with principles of fluid dynamics and turbulent flow. Understanding these dynamics, including the behavior of **Vortex/Liutex formation and development**, is essential for optimizing energy capture from these sources. Despite the success of traditional energy systems, challenges arise when considering efficiency, reliability, and environmental impact. Renewable energy sources, while abundant, have an intermittent nature that complicates energy distribution and storage.

In response to these challenges, various methods for energy optimization and management have emerged, classified as the second generation of energy identification and management (G2). These methods—advanced grid technologies, energy storage solutions, and smart grid innovations - aim to maximize efficiency while minimizing waste. However, G2 methods have limitations, as they often focus on scalar metrics like energy output or capacity, which do not capture the multidimensional aspects of energy systems. External variables, such as weather patterns affecting renewable energy sources, make them sensitive to fluctuations and sometimes unreliable in mixed-energy environments.

Recently, the Energy Vector Framework (EVF) has emerged as a third generation of energy analysis and management (G3). This innovative framework emphasizes a holistic view of energy systems, encapsulating the interactions and interdependencies between various energy forms. By treating energy as a vector, the EVF aims to provide a comprehensive understanding of energy dynamics, particularly in the context of integrating nuclear, renewable, and sustainable sources.

Today, the pressing crises we face—including climate change, energy shortages, pollution,

and health issues—are intricately linked to our energy choices and systems. Achieving accurate definitions and identification of energy types while promoting sustainable practices is one of the most critical research endeavors for securing a resilient and sustainable future. We must leverage the strengths of various energy forms, including wind, solar, hydropower, nuclear, and bioenergy, to address these global challenges effectively.

The purpose of this important conference is to get all experts, who are doing energy-related research, around the world sitting together to report their new progress in energy.

TOPICS:

- The Future of Renewable Energy, Hydropower & Emerging Technologies
- Green Energy Technologies (Hydro, Solar, Wind, Offshore, Geo-Thermal, Bio, Etc.)
- Fluid Dynamics
- Turbulent Flow
- **Liutex/Vortex Research**
- Global Warming & Greenhouse Gases
- Advanced Photovoltaic's & Distributed Energy Storage Systems
- Energy Processes and Conversion Systems
- Technology Innovations and Life Cycles (Applications of PV and Solar Thermal, Life Cycles and Impacts)
- AI-Enabled Energy Management Systems
- Capture of Carbon Emissions
- Storage of Electric or Thermal Energy
- ESG Driving Clean Energy Growth
- Electrification and Integration of Renewables into the Power Grid
- Grids and Solar Communities (Smart Grids from Nano to Micro)
- Scaling up Renewable Energy Technologies
- Intelligent Integration of Renewable Energy Technologies
- Life Cycle Analysis of Energy System
- Recycling Technologies for Energy and Materials Recovery
- Energy Policies and Economics
- Climate Change, Environmental Science and Engineering
- Net Zero Energy Buildings, Passive Heating and Cooling (Decarbonizing the Building Sector)

Welcome all scientists, engineers, and graduate students in any energy-related research areas, who are interested to submit the abstract through RSEMEET2025 website https://renewableenergy.academynature.org/. The presentation will be hybrid with the ways of in-person or online. There are some discounts i.e.,$200 for virtual (Online) presentation.

All presenters will be invited to submit full papers to the important conference for review and some excellent papers will be reviewed and selected for publication in a special issue

of **the Journal of Fluids, which is an open access journal in the ESCI index.**

DEADLINES:

Abstract Submission Deadline–August 25, 2025
Early Bird Registration Deadline – March 15, 2025

Thank You.

Conference Chairman
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Conference Co-Chair
Prof. Syed Abdul Rehman Khan, PhD
*Top 2% World Scientist in 2023 and 2024 List Published by Stanford University
*Highly Cited Researcher in 2021, 2022, 2023, and 2024

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