

ISPESFM 2026 THEME: Energy and Innovation: Rethinking Energy Efficiency Policies for Sustainable Development

This conference focuses on innovative scientific and technological advances that contribute to sustainable energy systems, improved energy efficiency, and environmentally responsible development.

Conference Topics

1- Renewable and Sustainable Energy Technologies

- Solar energy and photovoltaic systems
- Wind energy technologies
- Biomass and bioenergy
- Hydrogen production and hydrogen energy systems
- Energy transition and society
- Management of renewable energy intermittency
- Energy supply, grid stability, and load shedding

2- Energy Storage and Conversion Systems

- Advanced batteries and electrochemical energy storage
- Supercapacitors and hybrid storage devices
- Fuel cells and hydrogen-based technologies
- Energy conversion technologies
- Electrochemical engineering and electrochemical systems
- Electrolytes for energy devices

3- Advanced Functional Materials for Energy

- Materials chemistry for energy applications
- Nanoparticles and nanostructured materials
- Materials for intelligent and sustainable construction
- Photodetection and electroluminescent materials

- 4- Functional magnetic materials (ferromagnetism, antiferromagnetism, ferrimagnetism)

5- Smart Materials and Ferroic Phenomena

- Ferroelectric, antiferroelectric, and piezoelectric materials
- Electrocaloric, magnetocaloric, barocaloric, and piezocaloric effects
- Photochromic materials and photophysical properties

6- Photochemical and Photonic Energy Processes

- Photocatalysis for energy and environmental applications
- Photoelectrochemical systems
- Photodetection technologies
- Solar-driven chemical processes

7- Bioelectrochemistry and Bioenergy Systems

- Bioelectrochemistry
- Biosensors and biobatteries
- Bio-inspired energy systems

8- Green Chemistry, Environment, and Sustainability

- Green chemistry approaches for energy technologies
- Waste recycling and circular economy
- Environmental protection and sustainable processes
- Electrometallurgical processes for resource recovery

INDUSTRIAL EXHIBITION BOOTH