

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 Themes

Topic 1: Sustainable Energy Production and Vectors

- Renewable energy (solar, wind, hydrogen)
- Photochemical and photonic processes
- Bioelectrochemistry and bioenergy systems
- Energy supply, grid stability, and load shedding

Topic 2: Energy Storage and Conversion

- New generation batteries
- Supercapacitors and thermal storage
- Fuel cells and hydrogen-based technologies
- Advanced materials for energy storage
- Ferroic materials and multifunctional devices

Topic 3: Energy Efficiency and Optimization

- Reduction of energy losses in systems
- Power electronics and thermal management
- Magnetic materials and smart sensors
- Energy optimization of industrial systems

Topic 4: Green Chemistry and the Circular Economy

- Green design of energy materials
- Recycling of storage systems
- Life cycle analysis of energy technologies
- Environmental impacts and sustainability

Topic 5: Functional Materials for Energy

- Materials chemistry for energy applications
- Nanoparticles and nanostructured materials
- Materials for smart and sustainable construction
- Photodetection and electroluminescent materials
- Photochromic and electrochromic materials

Topic 6: Smart Materials and Ferroic Oxides

- Ferroelectric, antiferroelectric, and piezoelectric materials
- Ferromagnetic, antiferromagnetic, and piezomagnetic materials
- Electrocaloric, magnetocaloric, barocaloric, and piezocaloric effects
- Photocatalysis for energy and environmental applications
- Biosensors and biobatteries

INDUSTRIAL EXHIBITION BOOTH