



Special Session Proposal

Efficient Buildings and Industrial Processes: Driving the Energy Transition

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Abstract

The present special session aims at gathering contributions on innovative solutions and applications concerning energy efficiency both in residential buildings and in industrial applications

Regarding the buildings, the topics included in this special session concern (but are not limited to):

- Energy efficiency enhancement and valorisation of the national building stock
- New solutions and technologies to contain energy losses and increase the performance of the building system.
- Increased autonomy in consumption and flexibility in building management
- Multiple benefits of energy efficiency measures and end-user awareness
- Innovative strategies for increasing the potential of thermal networks.

Regarding industrial processes, in line with what is indicated in guiding documents such as the Clean Energy Package, PNIEC, PNRR and in the national emission reduction targets, the topics included in this special session concern (but are not limited to):

- Study, definition, monitoring and control of energy, functional and resource efficiency standards of energy-related products
- Energy efficiency of industrial thermal processes, production and sharing of thermal energy from recovered fluids and resources
- Definition of technical-managerial best practices for energy efficiency and optimisation of industrial clusters (supply chains/districts) towards the creation of dynamic innovation ecosystems
- Tools, analysis and impact of technologies and practices for energy efficiency and energy transition in production sectors