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Call For Papers

SPECIAL SESSION

SEAP (SUSTAINABLE ENERGY ACTION PLANS) AND NZEB (NEARLY ZERO ENERGY BUILDINGS) APPROACHES ARE EFFECTIVE TOOLS FOR PROMOTING ENERGY EFFICIENCY IN TOWNS? PRIN EXPERIENCES IN ITALY

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Objective and topics: The Covenant of Mayors for Climate & Energy brings together thousands of local and regional authorities, voluntarily committed to implementing EU climate and energy objectives on their territory. Signatories pledge to reduce CO₂ emissions by at least 40% by 2030 and to adopt an integrated approach to tackling mitigation and adaptation to climate change. Tools of this commitment are the SEAPs (Sustainable Energy Action Plans, submitted under the 2020 Covenant) and SECAPs (Sustainable Energy and Climate Action Plans, to be submitted under the 2030 Covenant).

Starting from the considerations of the difficulties that municipalities taking part to the covenant may cope with – mainly related to technical and governance issues –, PRIN proposals (Progetti di Rilevante Interesse Nazionale) have been submitted and financed by the Italian Ministry of University and Research. The aim is the building up of platforms for the evaluation and the monitoring of the technical interventions implemented by the municipalities within their SEAPs and coherently with NZEBs. The leading idea is that municipalities are engaged in implementing innovative tools and systems that could address towns towards more sustainable and smart achievements. ICT, BIM and Smart grid (including storage) approaches are the main tools of this sustainable path. According to the mission of the Covenant, the actions considered for the energy and environmental analyses of SEAPs are: building sector, public lighting, mobility of people, energy plants (with an emphasis on the renewable energy sources) and energy planning.

On this base, high quality papers are called, on (but not limited to) the following suggested topics:

- new methods for the analysis of innovative building components and clusters (BIM) to be adopted at urban scale (ICT, Smart grid, storage)
- smart energy systems and smart metering
- ICT methods for the analysis of (HVAC) building plants to be adopted at urban scale
- IEQ, monitoring and control
- highly efficient urban lighting
- urban mobility and its integration with buildings
- renewable energy sources in the urban planning
- cost optimality for existing buildings
- dynamic simulation in buildings
- decision-making and multicriterial approaches to the urban policies.

Although the university involved in the project are mainly candidate to offering papers for this Special Session, due to its large variety of issues and themes, valuable contributions are awaited from the scientific community

All the instructions for paper submission are included in the conference website:

<https://www.eeeic.net/eeeic/>