

PRESS RELEASE

July 9, 2016

ASHRAE Hellenic Chapter organizes the annual International Conference “ENERGY in BUILDINGS 2016” (EinB2016) for the fifth consecutive year. The conference is organized in collaboration with the Technical Chamber of Greece (TEE), on **November 12, 2016**, at the **Athens Ledra Hotel**. ASHRAE, as an international non-profit scientific organization of engineers, aiming in research, production and transfer of high technology, is a global leader in all matters related to the energy and industry of the build environment. The Conference will include papers, lectures and specific workshops, with national and international participants.

The energy sector changed dramatically in recent decades at the European and global level with tremendous impact and consequences not only in the field of economy but also at the daily lives of people worldwide and EU citizens, affecting their quality of life and work. The construction sector is of vital importance to the global economy. The latter affects our vision and directs our behavior outlining the professional ways towards a high-tech industry, which turns energy efficiency within the build environment into a sustainable business. The “Energy in Buildings” conference shares on an annual basis key enabling priorities agreed among the market orientation and stakeholders across the industry. In line with the Energy savings set by the EC by 2020, still exists a need that aims at developing breakthrough affordable solutions at building and district level. At an EU summit in October 2014, EU countries agreed on a new energy efficiency target of 27% or greater by 2030. Energy savings in buildings is the most appropriate and effective way to address energy and environmental crisis of our times. At the same time, the targets on energy efficiency, will impose that new buildings must become nearly zero energy (NZEB).

Adding to the financial impacts, the environmental has to be taken into consideration since buildings use 40 % of total energy consumption and generate 36 % of greenhouse gases (data for Europe). The construction sector is on its critical path to decarbonize the European economy by 2050, reducing its CO₂ emissions by at least 80 % and its energy consumption by a factor of 50 %. As the replacement rate of the existing stock is very small (1-2 % per year), acceleration is urgently needed. Suddenly, this offers a unique opportunity for sustainable business growth, provided that products and related services for both new and refurbished buildings are affordable, non-intrusive and of durable quality, in line with European Directives. Improving the energy and carbon footprint of a building and thereby reducing the cost of ownership is inextricably linked to the design, use of materials, construction and operation of the equipment throughout its life cycle.

Summarizing the main scope of the conference is to promote and tackle issues related to current technologies, inform the attendees about scientific and technological advances and educate targeted participants in areas of environmental management and savings.

ASHRAE Hellenic Chapter, responding to the needs of the society, after the successful hosting of the international conferences "Energy in Buildings" for the last four years, has established the conference on an annual basis, in order to inform and educate all parties related to the buildings sector.

Note that there is no registration cost to participate in the conference.

CALL FOR PAPERS

Interested authors are invited to submit an abstract by **July 15, 2016**. All submissions will undergo peer-review by the conference Scientific Committee. Additional information @ www.ashrae.gr/einb2016.php.

OBJECTIVES OF CONFERENCE

- Raise awareness on the benefits from energy savings in buildings
- Demonstrate new solutions to technical problems

- Quantify economic and environmental benefits
- Address health and safety issues
- Provide information about international standards for certification
- Emphasize the importance of proper design and quality in new building construction
- Set out key practices and energy saving measures in existing buildings

CONFERENCE'S TOPICS

- Green Building Design & Operation
- Net Zero Energy Buildings (NZEB)
- Renewable Energy in Buildings
- Trends in HVAC Simulations & Energy management
- Advances in Refrigeration and Alternative Refrigerants
- Life Cycle Assessment (LCA) in buildings
- Architectural designs and sustainable buildings
- Indoor Environment Quality (IEQ), Health & Comfort
- Daylight & Artificial Lighting
- Advanced materials and applications
- Refurbishment solutions for Improved Energy Performance
- Hybrid alternatives for power and heat balancing storage and demand

TARGET AUDIENCE

- Life Cycle Assessment Professionals
- Engineers & Architects
- Consultants
- Building Stakeholders
- Professionals
- Businesses
- Bodies & Organizations
- Researchers & Students

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