



TESSE²B Conference: Thermal Energy Storage Systems for Energy Efficient Buildings. An integrated solution for residential building energy storage by solar and geothermal resources

Saturday 3rd November, 2018

On November 3, 2018, in Energy in Buildings 2018, ASHRAE Hellenic Chapter will host the thematic **TESSE²B** conference in the field of energy storage targeted to Energy Efficient Buildings. Participants actively related to heating and cooling industry, industrial and commercial suppliers, Renewable Energy professionals, teaching and training experts, engineering chambers, decision makers as well as participants from research and development in the EU, are welcome to attend and benefit from this unique opportunity to partner with the **TESSE²B** consortium.

TESSE²B is one of the most advantageous solutions for correcting the mismatch that often occurs between the supply and demand of energy in residential buildings. It is a low cost thermal energy storage technology based on solar collectors and efficient heat pumps for heating, cooling and domestic hot water (DHW) production. The tanks developed within **TESSE²B** project are integrated with different Phase Change Materials (PCMs) such as paraffins and salt-hydrates. In both, a highly efficient heat exchanger is included. It is also coupled with PCM Borehole Heat Exchangers (BHEs).

The **TESSE²B** Conference will present and discuss current innovation in the Energy Storage field targeted to Energy Efficiency & Built Environment. The conference will present results from the ongoing Horizon project **TESSE²B**, as well as results from other Horizon projects in the area of energy storage.

Conference topics will be dedicated to:

- The **TESSE²B** project: Thermal Energy Storage Systems for Energy Efficient Buildings
- Innovative use of Phase Change Materials (PCMs) for renewable heating and cooling
- Development of heat exchangers and PCM tanks for thermal energy storage applications: heating, cooling and Domestic Hot Water
- Solar and Geothermal technologies
- Control and monitoring system for high efficiency in thermal energy storage applications

Also, the conference will host a special session dedicated to results from other European research projects in the area of energy storage.

The event is supported by **TESSE²B** Consortium. For more information visit: <http://www.tesse2b.eu/>

On behalf of the Organizing Committee

Michalis Gr. Vrachopoulos

Professor Technological Educational Institute of Sterea Ellada