

Tallinn thermal energy storage

ZEBE Center of Excellence in Research (CER) contributes to energy and resource efficiency improvement in buildings and districts. It consolidates six existing research groups active in ZEBE domain at three Estonian universities in order to build up key competences of CER. ZEBE CER contributes to Estonian Smart Specialization growth area of More Efficient Use of Resources, Smart and more efficient construction of buildings. On European level ZEBE CER contributes to European objective of 20% primary energy savings in 2020 that is one of the five headline targets of the Europe 2020 Strategy for smart, sustainable and inclusive growth. Research is focused to zero energy, resource efficiency, and renewable energy topics under three main themes:

ZEBE CER aims to conduct research needed for the development of smart buildings, being based on active and passive solutions, more efficient material use and use of more efficient energy solutions, which allow to seek for complete solutions in this area. Expected results can be utilized and applied in construction and energy sectors especially when moving to build nearly zero energy buildings as well as in deep integrated renovation of existing buildings, both being the areas Estonia has already been able to take decisive steps in order to be among key players in EU.

In the three research themes six research groups are working:

Teadmistepühise ehituse tippkeskuse avaseminar 07.09.2016

Ettevõtete koostöö festivali Aapter raames

16th International Symposium "TOPICAL PROBLEMS IN THE FIELD OF ELECTRICAL AND POWER ENGINEERING, January 16 - 21, 2017, Pärnu, Estonia

Teadmistepühine ehitus 2017, 27.04.2017 Viru konverentsikeskus, Tallinn

Power Electronics and Energy Routing in Nearly Zero-Energy Residential Buildings, 23.05.2017, TTÜ Energeetikamaja

AC-grid Integrated Storage Systems for nearly zero-energy residential buildings, 09.06.2017, Mektory

Intelligent and Efficient Energy Management for Zero Energy and Resource Efficient Smart Buildings and Districts, 25-27.08.2017, Jõesu küla, Tori vald, Pärnumaa

Hoonete renoveerimise seminar 06.06.2017, EMÜ Kreutzwaldi 5, Tartu



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Annual seminar of ZEBE CER 31.08.2017

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