Thermal energy storage nicosia

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Horizon Europe is the European Union (EU) funding programme for the period 2021 – 2027, which targets the sectors of research and innovation. The programme’s budget is around EUR 95.5 billion, of which EUR 5.4 billion is from NextGenerationEU to stimulate recovery and strengthen the EU’s resilience in the future, and EUR 4.5 billion is additional aid.

Project results under this Call are expected to contribute to the development and demonstration of novel modular, compact, high performances, thermal energy storage solutions (TES) for heating, hot tap water and cooling for electricity load shifting. The integration of the solution within the energy networks of the building and its system management should allow different functions, such as peak load reduction, energy saving, energy cost minimization. Also is expected to develop and demonstrate a novel thermal energy storage system much more compact than state-of-the-art technologies, enabling the storage of heat and cold for domestic applications for periods typically of 4 weeks long.

The scope covers the whole spectrum of application of the thermal energy storage systems, ranging from short run to longer run, as well as from the smaller to bigger sizes:

The achievable storage density (kWh/m3) depends on the technological approach (sensible heat, PCM and TCM) and decreases drastically moving from the component to the system level.

EU contribution per project: between EUR7,00 and EUR8,00 million

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European Commission, Directorate-General for Research and Innovation

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For clarifications or additional information regarding specific programmes/calls, you may contact the relevant contact points whose details are provided for each specific call through the Portal.Gia dieykriniseis i prosthetes plirofories schetika me sygkekrimena programmata / proskliseis, mporeite na epikoinonisete me ta schetika simeia epafis ton opoion ta stoicheia parechontai gia kathe sygkekrimeni prosklisi meso tis Pylis.

The recent extraordinary increase in installed photovoltaic (PV) capacity cannot be successful without integrating it with energy storage (ES) to store generated surplus power to be consumed later.

Technological developments and the trend of falling PV module and inverter prices makes it possible to apply economical solutions for hot water production for domestic hot water use and/or assisting space heating, based

on the use of solar energy.

The combination of modern inverter technology, PV and domestic electric water heating systems provides a storage solution for PV energy with considerable cost saving potentials in the countries of the EU.

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