

Poster Presentation Registration Form

Poster Session

Savenergy Conference, 13 May 2017, 9.00-14.30

Venue: Cyprus State Fair

To register, please e-mail this form to acharalambous@oeb.org.cy or send it by fax to 22666661 (c/o Mrs Anthi Charalambous).

Deadline for submission: 28th April 2017

Cost (students): free for poster presentation or 30 € for participating in the conference

Presentation period: 9.00-14.30, 13th May 2017

No unattended presentations: At least one presenter is required to stand by the poster for the entire session.

Poster presentation: Visual display of research which includes text, tables, graphs etc. Bring the poster printed in dimensions 1,30X1,30. Posters boards will be provided.

Poster Title: ENHANCE: A research project for an enhanced rooftop PV integration through kinetic storage and wide area monitoring

Topic (select one): renewable energy ☒ energy efficiency ☐

Author(s): Lenos Hadjidemetriou, Yiannis Tofis, Elias Kyriakides

Presenter(s): Yiannis Tofis

Email address: tofis.n.yiannis@ucy.ac.cy

Contact telephone number: 99306137

Level (circle one): undergraduate ☐ postgraduate ☒

Academic Program (i.e., school, department): KIOS Research and Innovation Center of Excellence, University of Cyprus



Description of research work and key findings (max 250 words):

This poster describes the main activities of a ENHANCE research project, supported by the Research Promotion Foundation of Cyprus and the SOLAR-ERA.NET instrument of European Union's Seventh Framework Programme.

This project aims to pave the way for a seamless and massive grid integration of small rooftop photovoltaic systems (PVs). Some of the obstacles against the large-scale deployment of small rooftop PVs include the variable nature of solar energy, the unavailability of accurate generation forecast, and the fact that the actual generation of rooftop PV systems cannot be monitored or controlled in near real-time. Moreover, the unavailability of local small scale storage systems, the poor Fault Ride Through (FRT) techniques and the lack of demand response mechanisms that respond in accordance to the current PV generation and the battery charging state, are some of the other factors that do not allow to substantially enhance the operational capability and flexibility of PVs and their grid-friendlier integration. Progress in these issues would alleviate the concerns of Distribution System Operators (DSOs), allowing a higher PV penetration.

The ENHANCE project is tackling the above barriers by proposing a novel PV system architecture which is enhanced with a green storage solutions and a coordinated controller for the prosumer and a low-cost solution for distribution grid operating condition awareness. The results of this project will be evaluated in a laboratory setup and in a pilot site.

Χορηγοί Gold:



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