



A quarterly newsletter published by STS-Med
A project funded by European Union - ref. I-A/2.3/174

STS-Med

Small scale Solar units for Mediterranean communities

Priority 2 – Topic 2.3 Solar Energy

Newsletter No 6 - May 2014

Project technical meetings

Egypt - May 22nd 2014: STS Med Innovation & Technology Demonstration Forum



On **22 May 2014** the Academy of Scientific Research and Technology organised the "**Innovation & Technology Demonstration Forum**" for Policy makers, Innovation management stakeholders and relevant research & innovation networks in Egypt. The

event was hosted by Bibliotheca Alexandrina and was chaired by Alexandria Governor and Amr Amin (ASRT President).

It was a joint seminar between two Euro-Mediterranean projects financed by ENPICBCMED Program, with the aim of creating synergies, promoting EU cooperation, sharing best practices and enhancing knowledge and technology transfer. These project are Netkite (Cross-border NETWORK to foster Knowledge-intensive business Incubation and TEchnology transfer "MEDITERRANEAN INNOVATION ECOSYSTEMS) and STS-Med (Small scale thermal solar district units for Mediterranean communities).

The event started by expert panel discussion on the topic "Key innovative tools to support Technology Development in Egypt with particular focus on Technology Incubators and Renewable energy applications for local communities "briefing the progress of different ASRT projects and European initiatives. It was followed by networking reception with the participation of industrial and academic experts from European and Mediterranean countries.



Greece - March 14th 2014: The STS-Med consortium gathered in Athens to discuss about technical actions



The technical meeting of STS MED project was held in Athens on March 13th at the University of Athens, in Physics Department. The main focus was the selection of the optimal combination of the system components, the design and the cost of the different technologies for the four demonstration plants.

There was a fruitful dialogue regarding the deployment of small/medium scale CS multi-generative systems for the Mediterranean area, combining and optimizing innovative subsystems as regards: Solar collectors, Thermal Energy System, Power control, Heating/Cooling and Desalination/Water treatment.

As to the storage system, different approaches have been proposed with many options (oil, concrete, molten salt) for the 4 pilot plants. An innovative concept of PV modules installed on top of the concentrator tube of a Fresnel system has been presented. Considering alternative technologies, the innovation is not only on components, but additionally in the integration and the software part of the control of all the subsystems. Finally, the design layouts of the four demonstration plants have been analyzed in depth.



Jordan - May 6th 2014: feedback from CSP and renewables professionals during a Focus Group Meeting



Al Balqa Applied University which participates in the implementation of (STS-MED) Project organizes a focus Group meeting at Al-Huson University College, Alkhwarezmi building where the implementation of pilot plant will be installed.

Many energy companies, renewable energy end users and stakeholders were invited to participate. The feedback of the participants on specific issues which are strategic for the project development and an exchange of views our knowledge on the themes dealt with in

STS-MED project are discussed.

The local studies on solar energy carried out by the STS-MED and the impact of concentrating solar technologies on the national economy, and the amount of energy saving by using solar energy and efficiency also discussed. The national electric company who participate by their study on the renewable energy law present the procedures carried out by the national electricity company to implement the law and how to face the problems and to propose solutions.



Project promotion: partner's Regional Meetings

March 14th 2014: IASA organized its Regional Meeting in the University of Athens, Greece



The 14th of March 2014 in the Aristotle's amphitheatre of the University of Athens – in the same block buildings of IASA, the Athenian Regional meeting took place. The speakers were representatives from all the partners of the CBC-MED STS project and the audience was mainly postgraduate students of the Physics Dept. – MSc in Environmental Physics, engineers from the private sector and engineers from the Region of Attica.

Among the speakers : Chair Petros Eskioglou, IASA – Greece ; Fabio Maria Montagnino, STS Project Coordinator – Consortio ARCA – Italy ; Prof. Amr Amin, Academy of Scientific Research and Technology – Egypt ; Dr. Alberto Giaconia, Agenzia Nazionale per le Nuove Technologie (ENEA) – Italy ; Dr. Nestor Fylaktos, Cyprus Institute ; Prof. Suhil Kiwan, School of Engineering & Management of Natural Sciences German Jordanian University – Jordan.

Press & web CSP review

HITECO

Focus on HITECO, a European Commission project funded under the 7th Framework Programme that aims to develop and test a new solar receiver for the parabolic-trough CSP technology that will operate at temperatures around 600° C.



Click [here](#) to read the full article.

Molten salt: too hot to handle?



The CSP industry's growing dependence on molten salt for heat transfer and thermal energy storage should not pose a health and safety threat, experts claim. Even though it has an operating temperature of up to around 565°C, the relatively un-reactive nature of the fluid means it is less hazardous than many other materials found in power generation or industrial settings.

Click [here](#) to read the full article.

Micro-CSP still looking good in Sopogy's wake



Fears over small-scale solar thermal following the closure of MicroCSP pioneer Sopogy seem unfounded, according to sources consulted by *CSP Today*. Analysts and even Sopogy's founder, Darren Kimura, still believe micro-CSP has potential, although it faces clear challenges. According to press reports, Sopogy, of Honolulu, USA, shuttered "several months ago" after more than a decade of operations. David Fernandez, chief executive, rejoined his former employer and Sopogy investor SunEdison, Pacific Business News said.

Click [here](#) to read the full article.

Calendar

EuroSunMed international school held in Rabat, Morocco 7-11 April 2014



Over 200 students, researchers and professors working in the area of renewable energies in the MENA, EU and beyond joined the EUROSUNMED International School and Workshop from 7 to 11 April 2014 in Rabat, Morocco.

The events were organized in the frame of the EUROSUNMED project, supported by the FP7 Programme of the European Commission. The events were hosted by the Moroccan Foundation for Advanced Science, Innovation and Research (MAScIR).

Very useful presentations about PV, CSP and grid integrations [here](#)

Next session to be held in Italy 11-18 July 2014

The aim of the School is to present the state-of-the-art and the future perspectives for materials applied to the generation and storage of renewable and sustainable energy. Lectures will be given by some of the most recognized academic and industrial experts, merging physics, chemistry and engineering knowledge in several fields. A general overview of the global energy landscape will be presented by discussing also conventional energy sources and next generation nuclear production. Topics of the school are: the global warming issue, conventional and sustainable technologies, solar energy conversion (PV and thermal), thermoelectric energy conversion,

solar fuels, wind energy conversion, fuel cells, storage and vehicles. The School will be a great opportunity for students and postdoctoral fellows from around the world to meet with



and learn from their peers, and established experts in a friendly atmosphere, reaping benefit in terms of enthusiasm, knowledge and new ideas and benefitting the future of mankind.

More information [here](#)

Links

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This publication has been produced with the financial assistance of the European Union under the ENPI CBC Mediterranean Sea Basin Programme. The contents of this document are the sole responsibility of the Consortium and can under no circumstances be regarded as reflecting the position of the European Union or of the Programme's management structures.



Project
funded by the
EUROPEAN UNION



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This project is funded by the European Union - This project is implemented by Arca Consortium.
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