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STS-Med

Small scale Solar units for Mediterranean communities

Priority 2 – Topic 2.3 Solar Energy

Newsletter No 5 - February 2014

Jordan: Second STS-Med technical meeting

January 16th & 17th 2014: the STS-Med consortium went to Jordan to visit a dead sea CSP plant, 50 kms East of Amman



On January the 16th and the 17th a group of about 20 representatives from the STS Med partners have visited a CSP demonstrative plant (50 km from Amman), dedicated to hot water production. The STS pilot plant location in Jordan has not definitely been chose yet, but

it is supposed to produce Heating, Cooling and Electricity.

The four country partners involved in the demonstrative part have presented their options in terms of pilote plant locations and applications (we remind that the aim of the project is to cater more closely to the needs of the local population):



- **Jordan** has identified 2 locations in the North of the country: Irbid with heating and electrical supply; Al-Khawarzmi with heating, cooling and electrical power.

- **Cyprus** Institute will implement the demonstrator above its new CyI Lab Building and so become the first Zero energy building in Cyprus! CSP should be integrated in the existing system.

- **Italy's** plant will be build in Sicily, in Menfi or in Palermo, near from the consortium leader offices. This location has strong environmental constraints that forces to use Fresnel technologies. The innovation there shoud be the mix between CSP and HCPV technologies.

- **Egypt** has chosen a medical building situated in the North of the country to install cooling and heating systems, answering the following issues: reduce the summer and winter peak in electricity demand; match demand with source availability; improving life standards in developing area; maximizing the exploitation of solar energy for heating, hot-water and cooling by the same solar system.

Project promotion: partner's Regional Meetings

November 19th 2013: CEEI Provence regional meeting, Aix-en-Provence and Paris - France

In partnership with the French Renewable Energy Syndicate (SER), the CEEI Provence organized the first awareness national conference in duplex in Aix-en-Provence and Paris (as a webinar). With more than one hundred participants the meeting aimed at giving a 'state of the art' of the CSP (Concentrated Solar Power)



sector focusing this year on the Southern countries of the Mediterranean area. Both research and industrial aspects of those technologies have been detailed, and the European STS Med project has been presented to the French CSP industry, two French ministers and six invited countries representatives of the Mediterranean area.

November 16th 2013: ASRT regional meeting, Cairo - Egypt



First regional workshop in Egypt at SEKEM Group, Belbeis, Sharkeyah, was arranged on Saturday, November the 16th 2013 with an attendance of nearly 90 persons from different sectors and public authorities. In this workshop, STS Med local team disseminated and addressed the main goals of the project:

- Easier integration, optimization and adoption of innovative ST technologies to the local need
- Promotion and implementation of innovative technologies and know-how transfer in the field of solar energy with the intention of designing and installing poly generative ST systems in public buildings.

As a result, the presentation and the open discussion with audiences fostered the objectives of the project, indicated more recognition of CSP application in the region and showed the need for clustering communication, and the importance of the RE energy mix particularly related to public buildings.

December 4th 2013 : CCCI & Cyl regional meeting, Nicosia - Cyprus

The Cyprus Chamber of Commerce and Industry (CCCI) and The Cyprus Institute (Cyl) organised the 1st Regional Event for the STS-Med Project on the 4th of December 2013. 26 people especially SMEs participated to the event. People from CCCI and Cyl made a short presentation of the project and the benefits that will arise for the Cypriot enterprises from the implementation of the technology that will be used for building the demonstration plant in Cyprus.



The SMEs representatives were very enthusiastic and showed a particular interest in the project.

Press & web CSP review

Yes, it's true. Ivanpah, world's largest CSP plant has officially come online

After some days of rumours about the status of Ivanpah, we can say it has officially come online. NRG Solar, the company which operates the plant has released an official press statement to announce this milestone in the Concentrated Solar Power sector.



At full capacity, the facility's three units 450-foot high towers produces a gross total of 392 megawatts (MW) of solar power (377 MW net), enough electricity to provide 140,000 California homes with clean energy and avoid 400,000 metric tons of carbon dioxide per year, equal to removing 72,000 vehicles off the road.

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

Similar value for tower and parabolic trough CSP technologies, according to NREL

The findings of a new report just released by NREL may be a bit surprising as it finds similar value for two very different Concentrated Solar Power (CSP) technologies. Tower and trough plants are based on the same principle, but the working process is really different from each other.

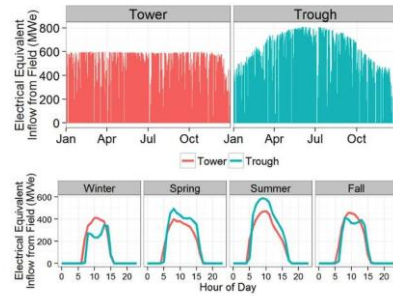


Figure 6. The seasonal (top panel) and average daily (bottom panel) variation in solar resource availability for trough and tower CSP plants¹³

The report, "Estimating the Performance and Economic Value of Multiple Concentrating Solar Power Technologies in a Production Cost Model," found that the value of delivered energy of dry-cooled tower and parabolic trough CSP plants, integrated with thermal energy storage, are quite similar.

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

CSP World Map



An interesting overview of the existing CSP plants all over the world
Click [here](#) to read more

[Calendar](#)

**EU Sustainable Energy Week returns for its 9th edition
June, 23rd to 27th 2014**



Take note, the dates are set for next year's leading event dedicated to energy efficiency and renewable energy solutions! From 23 to 27 June 2014, the EU Sustainable Energy Week (EUSEW) will take place in Brussels and across Europe.

Launched in 2006 as an initiative of the European Commission, the EUSEW has become a reference point for public authorities, energy agencies, private companies, NGOs and industry associations engaged in helping to meet the EU's energy and climate goals. For those interested in renewable and efficient energy, this event has become unmissable - and next year's EUSEW will be no different!

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