

STS Med - Newsletter N°8

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

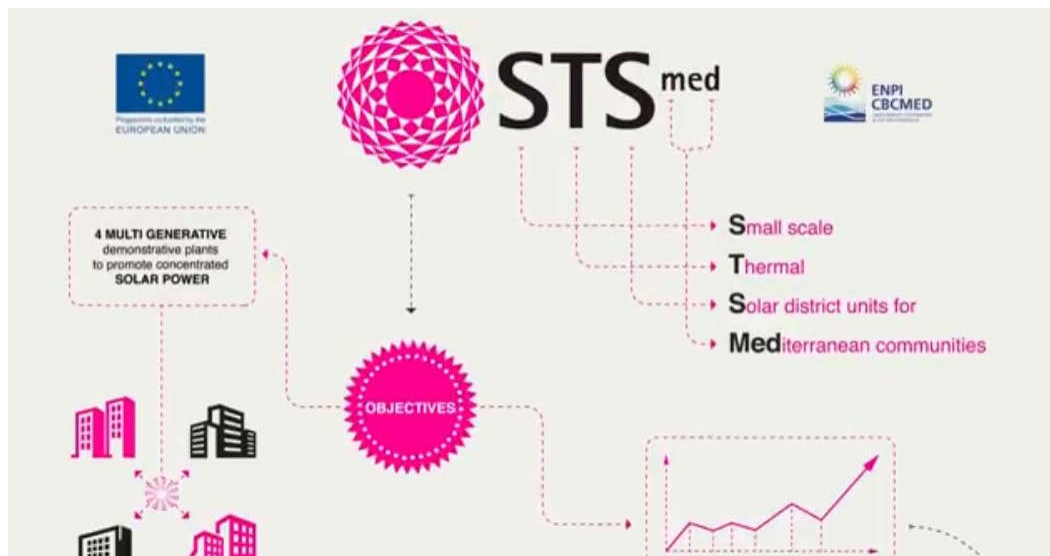
## STS-Med

### Small scale Solar units for Mediterranean communities

*Priority 2 – Topic 2.3 Solar Energy*

### Newsletter No 8

**New: STSMed online video**

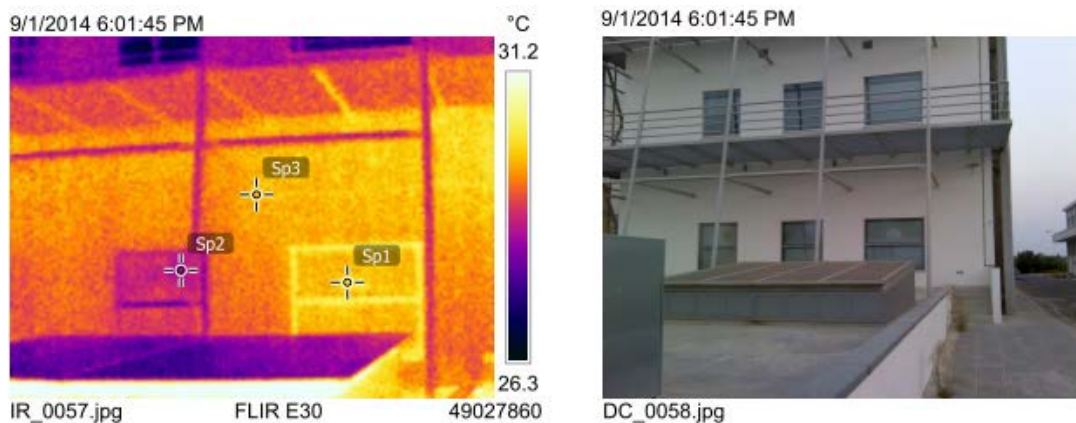


## STS Med technical news

### CSP demo plant procurement progress - Cyprus

The Cyprus Institute **has closed the tenders** for the absorption chiller and the Fresnel collector on September 2014. The tenders were published in English on the electronic procurement platform of the Treasury Department of the Republic of Cyprus. Several companies applied to both tenders before the closing date (31st of October 2014). Offers are **now under evaluation** (technical part and financial one). As soon as the two convenient products are selected, in December 2014, an open tender will be published for a thermal storage and the integration of them altogether. These new tenders will permit to integrate the Solar collector to the absorption chiller in order to have **4 hours of thermal storage**. For instance, after sunset the system will still be able to provide air conditioning for 4 hours. Integration will permit also to provide heat to the already existing buffers tanks for air handling units, fan coils units and heat recovery.

The **energy audit** of the Novel technologies Laboratories has been done (by Karantonis company) on the beginning of September 2014. This audit permits to **characterize** more precisely the building which will be cooled by the absorption chiller. This audit determined the U values of the building. With these data the **simulation model** of the building using TRNSYS will be completed. This simulation model will also permit the needs of the building. The capacity of the absorption chiller alone is not enough to provide cooling air to the building. So a **smart control** will be done according to these results to adapt the use of the already existing chillers (mechanical).



Thermography of the building (energy audit)

## STS Med consortium

## Consortium meeting - Greece

25-26 September 2014

As project is financed under public funds it has been decided from its beginning to **'open' most of the deliverables** produced by the consortium, especially a database of systems and components, which would be regularly updated and accessible to a large public, but the main target will be the Mediterranean CSP industry. You can find those document under the 'download' section of the [website](#).

CEA LITEN (French renewable research centre) presented its **simulation tool** that includes the the 'global satisfaction coefficient' integrating many kind of **applications** like electricity, heat, cooling and desalination.



Concerning the training activities, part of them have been carried out in Egypt, Jordan and Cyprus with about **300 professionals** sensitized.

CEEI (Aix-en-Provence incubator) presented the state of the art of communication activities. It seems all CSP STSMed countries industries are henceforth aware of the programme: many press releases and even TV interviews have been **broadcasted** (see Jordan article below). The challenge is now to connect and support RET (renewable energy) professionnels to consider **concentrated solar as tangible and affordable** option for all local & small scale plant project!

Finally the Cyprus Institute presented the state of progress of the demonstrative plants and highlighted two challenges to tackle in almost all countries where units will be build: **procurement** procedures and availability and **delivery deadline of some components**.

Next meeting is planned in Irbid (Jordan) beginning 2015.

**STS Med partners events**

## Technical workshop - Jordan

4 Nov 2014

## Scientific workshop and info Day about STS-med ENPI project and an awareness of the Master Program on Renewable Energy

Al-Balqa Applied University with the cooperation of German Jordan University in Madaba was organized a **Scientific workshop** about STSMed ENPI project and an **awareness of the Master Program on Environmental and Renewable Energy** under the patronage of the GJU President, Prof. Natheer Abu.Obeid, and in the presence of the STSMed team, the deans as well as many guests that were invited from inside and outside the university. The audience, **more than 80 people**, includes people from **public authorities and the private sector** in Energy and Environment.



Prof. Abu Obeid welcomed all the guests and expressed his pleasure to attend this important event, which is cover topics ranging from scientific research and projects to **innovative approaches** for technology implementation solar and renewable energy.

For his part Prof. Suhil Kiwan, briefed on the GJU and spoke about the GJU **Solar Energy Center** "G-JUSEC " which will give the university and the country an additional component.

The coordinator of the STSMed project at Al Balqa Applied University, Al Huson College, Prof. Rebhi Damseh presented the STSMed Project. Prof Damseh explained the importance of such project which includes the **down scaling of Solar Concentrated Technology to be suitable for public buildings** and at the same time to utilize the solar energy for **poly-generation**. Furthermore, Eng. Oelgemöller, German expert, elaborated about Management of E –Waste in EU/Germany and Management of E-Waste in Jordan using renewable energy resources.

## Second training course - Jordan

16- 20 Nov 2014

### "Design and modeling of Multi-Generation Solar Thermal Power Plants"



Under the umbrella of the draft units of small solar thermal power (STS-Med), Al-Balqa Applied University/Al Huson University College organizes and addresses the second training course.

The training was hosted at the dedicated office of the project at Al Huson University College – Irbid – Al Huson. Thus **52 professional engineers** from the qualified SMEs, planners and installation engineers,

civil, energy specialists, and other CS components manufacturers and suppliers get involved in the course.

### Organization of training Seminars - Cyprus

October 29th to 30th, 2014

**Transfer of know how to train planners, installation engineers and professionals**

More than **hundred professionals** attended to that first training organized jointly by the Cyprus Institute and the Cyprus Chamber of Commerce. Another partner from STSMed contributed to it as a representative from ASRT talk about the CSP demo plant that will be build in **Egypt**.

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**Press & web CSP review**

### Abengoa building on storage expertise in smaller Palen proposal



**Abengoa is now evaluating a new design that could reduce proposed capacity but plans Palen as a single tower including thermal energy storage.**

After 4 years, the 500 MW Palen tower project being carefully shepherded through California's exacting solar permitting process by BrightSource Energy and Abengoa as Palen Solar Holdings (PSH) was unexpectedly withdrawn in its final iteration two months ago.

Before backing out, PSH had received a provisional approval to build one 250 MW tower first, and then to separately attempt to permit a second tower - only on condition that it includes storage.

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



## Solar thermal incentives take multiple shapes

Huge energy savings are being made through industrial solar thermal applications. But why stop there when you can benefit from financial support? As Canada's Rackam and South Africa's MTN have discovered, the economics are compelling enough to consider additional CSP projects.



Substantial cost reductions and energy savings could be made by using solar thermal systems in industrial processes. Along with the enhanced corporate reputation, these advantages should suffice to encourage companies to replace or support their conventional heating and steam-generation methods with solar thermal technologies.

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

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### Calendar

#### Training courses in running demo plants - Cyprus

Beginning 2015 (in the works)



CYPRUS  
CHAMBER OF  
COMMERCE AND  
INDUSTRY

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Cyprus Chamber of Commerce and Industry

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### Links

Read previous STS Med newsletters on our website [www.stsmed.eu](http://www.stsmed.eu)

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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.*

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Project  
funded by the  
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