



## WORKSHOP

### THERMAL STORAGE FOR SOLAR THERMAL CONCENTRATING PLANTS

- Place:** IMDEA Energy Institute  
Parque Tecnológico de Móstoles  
Avda. Ramón de la Sagra 3  
28935 Móstoles, Madrid
- Date:** September 14<sup>th</sup> 2016
- Description:** One of the main advantages of solar thermal power plants (STE) against other renewable technologies is that they currently have commercial storage systems with large capacities. Nevertheless there is still a long way to walk, not only to reduce the specific cost of the current storage systems but also to provide appropriate technological options for such a systems to be coupled in promising solar concentrating technologies, like Direct steam generation (DSG) is. The workshop will cover different approaches for either reducing the cost of current commercial systems or presenting innovative proposals. The workshop is organized by Ciemat and IMDEA Energy Institute, under the collaboration umbrella of STAGE-STE European project and ALCCONES Project, funded by the regional programme of the Community of Madrid.
- Language:** English
- Registration:** Application form at [www.energia.imdea.org](http://www.energia.imdea.org)
- Fee: 70 € + IVA  
(Early bird fee: 50 € + IVA, deadline for early bird fee: 5<sup>th</sup> September)





## PROGRAMME

08:45 – 09:00 h. Registration

### Workshop Opening

09:00 – 09:10 h. Workshop introduction: challenges for the thermal storage system for STE plants

Manuel Romero, **Deputy Director, IMDEA Energy**

09:10 – 09:30 h. Thermal Storage: the great treasure of STE plants

Esther Rojas, **Plataforma Solar de Almería / Ciemat**

### Session 1: Sensible heat storage

09:30 – 10:00 h. **Selection of structural materials for thermal energy storage**  
Marta Navas, **Ciemat**

10:00 – 10:30 h. **Dispatchability and steadiness in STE plants**  
Alberto Rodriguez Rocha, **ACS-Cobra**

10:30 – 11:00 h. **New concrete formulations in thermal storage systems**  
Verónica Fuentes-Vázquez, **Arraela Térmico**

11:00 – 11:30 h. Coffee break

### Session 2: Latent and Thermochemical heat storage

11:30 – 11:55 h. **New metallic alloys as thermal storage media**  
Abdessamad Faik, **CIC-Energigune**

11:55 – 12:20 h. **Liquid crystals as latent storage media**  
Rocío Bayón, **PSA / Ciemat**

12:20 – 12:50 h. **Thermochemical storage: Challenges and recent developments**  
José González-Aguilar, **IMDEA Energy**

12:50 – 13:20 h. **Networking as a collaboration tool: national and international platforms in Energy Storage**  
Ana Lázaro, **GITSE / Zaragoza University**

### Closing and Lunch

13.20 – 13.30 h. **Closing**

13.30 – 14.30 h. **Lunch buffet and networking (A visit to the IMDEA Energy Institute will be organised for those participants that would be interested)**

