



Workshop

Solar towers' performance enhancement and cost reduction by the development and implementation of innovative on-site measurement & characterization tools

October 3-4, 2024



IMDEA Energy

Móstoles, Madrid (Spain)



Program



Agenda Day 1, October 3

9:00 – 9:15	Welcome and introduction
9:15 – 9:45	Summary of the current status of the project and meeting goals
9:45 – 11:15	Session 1 – Technical challenges and perspective from industry (10 min per presentation) Participants representing the industry are strongly encouraged to contribute as active players during the session. For an accurate assessment of the issues and challenges impacting the performance improvement and cost reduction in the O&M of current and the future generation of solar towers aiming at new applications, a presentation of the real needs and the prioritization of their magnitude is key. Industries are invited to share brief presentations (up to 5 slides) where monitoring and diagnostic experiences are valued and the new demands are identified for a better understanding and more efficient formulation of collaborative solutions.
11:15 – 11:30	Coffee break
11:30 – 13:00	Session 2 – Technical challenges and perspective from industry (10 min per presentation)
13:00 – 14:00	Lunch
14:00 – 15:30	Session 3 – Current status and capabilities from R&D centers (10 min per presentation) As a contribution to the cross-fertilization exchange of experiences, needs and capabilities, the R&D centers are invited to provide a vision of selected methodologies, equipment and infrastructures for potential alignment with solar tower requirements. The presentations should serve to complement the inputs provided by industry and should serve as playground for the joint identification of priorities, implementation of infrastructures and homogenization of objectives.
15:30 – 16:30	Discussion – Action plan / Concept note
16:30 – 16:45	Closing

Program



Agenda Day 2, October 4

9:00 – 9:15	Welcome and introduction
9:15 – 10:45	<p>Session 1 – Current status and progress on Beam Characterization Systems, BCS</p> <p>Brief description of this joint collaboration and its link within other R&D programs and SolarPACES tasks.</p> <p>Presentation and analysis of current methodologies implemented in commercial and R&D solar towers (and heliostat testing facilities). Contributions will address specific challenges encountered by users, including specific cases (and, when possible, supported by illustrative images to better understand the difficulties faced).</p>
10:45 – 11:00	Coffee break
11:00 – 12:30	<p>Session 2 – Solar field performance.</p> <p>Brief presentation and discussion on R&D programs and SolarPACES tasks dealing with enhancement of solar field performance.</p> <p>Discussion on new solutions and their implementation by means of joint roadmaps, projects, infrastructure sharing, and coordinated research efforts to address these challenges.</p>
12:30 – 13:00	Wrap up – Conclusions and next actions

General Information



ACCOMODATION

Madrid is plenty of hotels and has an excellent quality public transport. Thus, you can select the hotels the most convenient for your activities.

IMDEA Energy is located in the city of Móstoles, about 25 km SW Madrid.

If you want to book your accommodation nearby the Institute, you are advised to stay at hotel “Ciudad de Móstoles” that is at few minutes walking distance (<https://www.hotelciudaddemostoles.es/>)

<https://maps.app.goo.gl/UGYat3zrhgNYeim7> Alternatively, you may decide to stay in Madrid downtown.

Madrid is plenty of options for accommodation. In that case you should allow for about 1 hour travel in public transport and walk from downtown to the venue by Metro or Cercanías (train). 30 min if your hotel is close to Atocha or Embajadores train stations.

In both cases (Móstoles or Madrid downtown), we could arrange ourselves to pick up you (and other colleagues) at the train station or the Hotel Ciudad de Mostoles.

You will find below additional info that we will provide to the participant once we disseminate the announcement.

How to get there

From Madrid Barajas Airport to downtown

You are advised to take Metro at airport terminal. Line 8 serves the different terminals directly to downtown station “NUEVOS MINISTERIOS”. From there you easily connect to all other parts of the city and also to Train “Cercanías”.

For detailed information and connections, you may visit <https://www.metromadrid.es/en>

Be aware that the first time you buy a ticket in Metro you should pay 2.5 euro for an electronic card “Multicard” to charge your trips. This card can be charged as many times as you need.

Alternatively, you can travel from airport to Madrid downtown by Train “Cercanías”. In this case you have to take the train in Terminal 4 (if you are in a different terminal you have a circular free bus connecting the terminals). From terminal 4 you can head to Atocha station and you are in downtown.

<https://www.renfe.com/es/en/suburban/suburban-madrid>. Also in Cercanías the first time you have to buy a reusable card that you can charge as many times as you need.

Be aware that Cercanías card and Metro card are different.

From Madrid downtown to IMDEA Energía

By Metro, charge your Metro multicard with one single combined ticket (for all zones). Your destination stop should be UNIVERSIDAD REY JUAN CARLOS. From your departing place in the city go to Line 10, from there take to the last stop in PUERTA DEL SUR and then connect with MetroSur exiting in UNIVERSIDAD REY JUAN CARLOS. MetroSur is a circular line, so take the correct direction. From UNIVERSIDAD REY JUAN CARLOS you have a 1 km walk through the campus of the university (<https://maps.app.goo.gl/cGxm6hPGZo6rV6NQ8>)

By Cercanías, you should take trains to Atocha station. From your departing train station charge your Cercanías card with one trip to MOSTOLES EL SOTO station. It is the last stop where the train ends. Then you have to walk about 1.5 km to the Institute (<https://maps.app.goo.gl/HiSzSDXQftwaefgg9>)

From Madrid Barajas Airport directly to IMDEA Energy or to Hotel “Ciudad de Móstoles”

The fastest way to Institute or nearby hotel “Ciudad de Móstoles” is by train “Cercanías”. You may take train at terminal 4 (see option 1). Buy your ticket directly from airport to MOSTOLES EL SOTO. You have to connect in Atocha station for the train to Mostoles el Soto.