

Solar Decathlon Middle East

Solar Decathlon is an international competition in which universities from all over the world meet to design build and operate a grid-connected energetically self-sufficient house. The houses use renewable energy as the only energy source and are equipped with all the technologies that permit maximum energy efficiency. During the final phase of the competition teams assemble their houses open to the general public while undergoing the ten contests of the competition. These ten contests make this event a Decathlon to challenge the teams to adapt their designs to the heat dust and high humidity that we experience during part of the year.

Solar Decathlon will take place in Dubai in 2018 and 2020 with UAE being the first country that hosts the competition in the Middle East. The competition was launched during the Final Awards Ceremony of the U.S. Department of Energy Solar Decathlon held in the USA it was made to reflect the rising global position of the UAE and its key role regionally.

The SDME 2018 Organization goal is to contribute to the knowledge and dissemination of industrialized solar and sustainable housing and has the following contests:

1. Architecture
2. Engineering and Construction
3. Energy Management
4. Comfort Conditions
5. House Functioning
6. Sustainable Transportation
7. Sustainability
8. Vegetation and Hardscaping
9. Communication
10. Innovation

SDME will raise the prestige and visibility of the selected participating universities as they are part of the small group of top institutions that will compete in the world's most important Solar House Event.

SDME offers students and faculty a unique opportunity for learning taking theory and putting it into practice and doing so through a case study. Students working on the project will be challenged to use their innovation capacity and their ability to design and build an energetically self-sufficient solar house. The projects are developed by multidisciplinary teams giving the students the opportunity to learn not only about technical issues but also about teamwork communication skills a sustainable lifestyle and socio-economic issues in order to ensure the viability of their project.