



sd europe
SOLAR DECATHLON



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SOLUTIONS

The background of the entire page is a high-contrast photograph showing the silhouettes of two workers in safety gear, including hard hats and harnesses. They are positioned on either side of a very bright, circular light source, likely the sun, which creates a strong lens flare and illuminates the scene from behind. The workers appear to be in a construction or industrial setting, possibly on a rooftop or a high-altitude site.

Solar Decathlon Europe 2012 ACTIVITIES DOSSIER

**Update on 11th
September**



ACTIVITIES FOR EVERYONE AT SOLAR DECATHLON EUROPE 2012

Solar Decathlon Europe, the international university competition on solar and sustainable housing, will take place from 14th to 30th September at the Puerta de Angel concert site in Madrid's Casa de Campo.

19 teams will design and build life-size houses powered solely by energy from the sun, undergoing 10 trials to determine the winner of the competition: the one which consumes least natural resources and produces minimal waste during its lifetime.

The new edition of Solar Decathlon Europe has invested heavily in developing activities outside the competition, creating a unique, versatile and free space for everyone at the "Villa Solar". (*Visit schedule to be confirmed on the SDE website – www.sdeurope.org -)

The aim of this novel space is to raise public awareness about the use of renewable energies, and specifically solar energy, in houses, on the premise that "you can have fun while you learn". Thus the majority of activities are devoted to the very young and others to be done as a family. (* Activities schedule to be confirmed on the SDE website – www.sdeurope.org - as from September)

All activities can be enjoyed free of charge.





Activities for children and teenagers:

AO1 Competition: "Draw the sun's energy"

(1-5 and 6-10 years old)

This is an international competition for children aged between 0 – 10 years, who will depict solar energy and its uses. For this, they can use pencils, felt-tipped pens, water colours or crayons. Here you can find tables for the little ones, where they can paint, colour in and use their imagination.

SCHEDULE A*

AO2 Educational games area

(0-5 and 6-10 years old)

Space with blackboards, stories, building blocks, face-painting, story-telling....

SCHEDULE A*

AO3 Web Game: "My Energy Smart Home"

(6-10 years old)

Computer game for building your own house with 10ACTION. But bear in mind that your house has to do more than just look nice; it must also respect the environment and save energy

SCHEDULE A*

AO4 Discover the Villa Solar (educational booklet)

(6-10 and 11-18 years old)

We explain what Solar Decathlon Europe is and each of the houses one by one, through activities and trials, during visits with your school or parents. The trail can be followed individually or in a group, with tests about SDE. In addition, you will find information about competitions and activities in which you can take part.

SCHEDULE A*





A05 Solar Passport

(6-10 and 11-18 years old)

Use the Solar passport to collect the stamps you get in every house you visit.

SCHEDULE A*

A06 MadScience workshops

(0-5, 6-10 and 11-18 years old)

Workshops on Science and Architecture. Discover how to amuse yourself with objects powered by solar energy and many other interesting things. *Timetable: 14-30 Sep: Fri from 17:00-20:00 hrs., Sat & Sun from 11:00-14:00 hrs. and from 17:00-20:00 hrs. Mon, Wed & Fri for groups and schools by advance booking at evenst@sdeurope.org*



A07 Make your own city – Madrid's Official College of Architects workshop

(0-5, 6-10 and 11-18 years old)

Build your own sustainable city from recycled materials, designing furniture, houses, parks and all types of buildings. Bring your box, can, tetrabrick or kitchen towel roll and let your imagination flow free and form part of this entertaining project.

SCHEDULE B*

A08 See and feel energy. Thermography for all – Madrid's Official College of Architects workshop

(0-5, 6-10 and 11-18 years old)

Come and have a thermographic photo taken and discover the temperature of your body and other materials. SCHEDULE B*

A09 A_shadow2 – Madrid's Official College of Architects workshop

(6-10 and 11-18 years old)

Cut out, fold, stick..... Make figures provided by shadows in this workshop that relate nature to Architecture.

SCHEDULE B*

A10 The Restorable Home (Slow Energy)



(6-10 and 11-18 years old)

Here children (and their parents) will learn as they play about how to spend less on heating by applying techniques and solutions, as well as how to distinguish between different types of energy.

SCHEDULE B*

A11 CICLALAB (11-18 years old)

Music and concerts powered by solar panels and energy generated by yourself pedaling our bicycles. A participative and ecological activity. Stage for free use by advance booking.

SCHEDULE B*

A12 Design Competition: "Ideas for the Future"

(11-18 years old)

Design competition on ideas for a more sustainable future: "Cities of the future" and "Buildings of the future". Free technique: drawings, models, text, music, photos, video... There will be prizes, such as Tablets or iPods, for the first three.

SCHEDULE A*

A13 Photography competition "Focus on Energy"

(11-18 years old)

Photography competition on themes related to SDE and the sun's energy. Photos will be sent via events@sdeurope.org. There will be prizes, such as Tablets or iPods, for the first three.

SCHEDULE A*

A14 Micro-short films competition "I like/I don't like"

(11-18 years old)

What every day object do you hate because you find it unnecessary and harmful to the planet? Which do you admire for the common sense and honesty of its design? Upload your micro-short film and win: There will be prizes, such as Tablets or iPods, for the first three.

SCHEDULE A*

A15 Recycled Shadows

(11-18 years old)

Using materials and objects that have lost their original condition, but keep their essence, we will create rest areas in the Villa Solar sheltered from the sun.

SCHEDULE A*

* **SCHEDULE A:** *Timetable: 14-30 Sep. from 10:00-22:00 hrs.*

* **SCHEDULE B:** *Timetable: 14-30 Sep. Fri from 17:00-20:00 hrs. Sat & Sun from 11:00-14:00 hrs. and from 17:00-20:00 hrs. Mon, Wed & Fri for groups and schools by advance booking at evenst@sdeurope.org*



University activities:

ROUND TABLE DISCUSSIONS WITH MEMBERS OF THE INTERNATIONAL JURY FOR UNIVERSITY STUDENTS

- Architecture (19th/Sep at 19:00 hrs)
- Engineering (20th/Sep at 19:00 hrs)
- Industrialization (21st/Sep at 19:00 hrs)
- Communication (22nd/Sep at 19:00 hrs)
- Sustainability (26th/Sep at 19:00 hrs)
- Energy Efficiency (27th/Sep at 19:00 hrs)



Talks for professionals:

Monday 17th

Smart Patio. Reinventando la casa mediterranea and Anticipando el futuro de la vivienda, from 10:00 to 14:40 hrs, KÖMMERLING AUDITORIUM. *Organized by Andalucía TEAM.*

Schneider Electric Presentation, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by SCHNEIDER ELECTRIC.*

Tuesday 18th

Curso 100 GBC, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by KÖMMERLING.*

Aplicaciones de Hormigón, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by IECA.*



SOLAR DECATHLON EUROPE

Wednesday 19th

Architecture Day, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by COAM and SDE 2102.*

Instalaciones de régimen especial seguras y eficientes, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by APIEM.*

Thursday 20th

Jornada organizada por KÖMMERLING, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by KÖMMERLING.*

Balance Neto & Autoconsumismo, at afternoon, KÖMMERLING AUDITORIUM. *Organized by UNEF.*

Smart City Center, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by SDE 2012 and SCHNEIDER ELECTRIC.*

Friday 21th

Industrialización de viviendas, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by SDE 2012.*

Movilidad eléctrica en los servicios públicos, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by SDE 2012 and ELECTRIC CITY MOTOR.*





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Monday 24th

Laboratorio de Sostenibilidad and El Hogar Eficiente, from 10:00 to 14:40 hrs, KÖMMERLING AUDITORIUM. *Organized by Andalucía TEAM.*

Presentación MATELEC, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by IFEMA.*

Tuesday 25th

Programa URSOS: Software para el desarrollo de un urbanismo sostenible, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by IDAE and 10ACTION.*

Jornadas profesionales SCHNEIDER ELECTRIC, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by SCHNEIDER ELECTRIC.*

Wednesday 26 th

European Congress of Social Housing, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by CECODHAS.*

Creación de empresas sostenibles, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by INNOENERGY.*

Thursday 27th

Sostenibilidad, energía y educación, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by SLOW ENERGY.*

El futuro de la rehabilitación. Casa SD10 UPM, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by ANERR.*

Friday 28th

Certificados de edificación sostenible, from 10:00 to 14:00 hrs, KÖMMERLING AUDITORIUM. *Organized by SDE 2012.*

Presentación de House π _Unizar, from 10:00 to 14:00 hrs, SCHNEIDER ELECTRIC AUDITORIUM. *Organized by Grupo π _Unizar.*



Activities for the general public:

- **Guided tours of the Villa:** These are visits of a general nature, explaining the SDE competition and the Villa Solar, while strolling around the houses on the outside. Duration approximately 60 min. *Timetable: Fri 16:00-22:00 hrs and Sat-Sun 10:00-22:00 hrs.*

- **Visits to the houses of SDE collaborators (outside the competition):** The public will receive explanations of the most outstanding technologies or building systems in houses not taking part in the competition: ecHor house (of IECA), FabriQ21, MODULAB, Saint Gobain Wanner and House of SDE 2010 UPM (Smart City Center). *Timetable: Mon-Thur 10:00-20:00 hrs, Fri-Sun 10:00-22:00 hrs.*

- **Solar Kitchens:** Installation of 2 kitchens and a solar oven with demonstrations, ranging from making coffee and boiling water for infusions to making cakes and paellas. *Timetable: 17:00-20:00 hrs. and Sat -Sun 11:00-14:00 hrs. and 17:00-20:00 hrs.*



- **Villa Solar photography marathon:** Photo competition for everyone on scenes from the Villa Solar. The photos will be uploaded onto Facebook. There will be daily prizes and a grand prize at the end of Solar Decathlon Europe. *Timetable: Mon-Thur 10:00-20:00 hrs and Fri-Sun 10:00-22:00 hrs.*

- **Micro-sort film Contest:** Which everyday object do you hate because you think it's unnecessary and harmful to our planet? Which do you admire for the common sense and honesty of its design? Upload your short film into the network and win: a new 32GB iPad, 20 T-shirts exclusively designed by Loreak Mendian, 40 film tickets and above all..... Your short film will become part of the collective film "I like/I don't like", based on everyday objects. *Timetable: Mon-Sun 10:00-22:00 hrs.*

- **10ACTION Exhibitions –IEE:** Exhibition of activities organized by the 10ACTION project for 180,000 people in 10 European countries. These include work by children, young people and students who have taken part in 10 ACTION activities. The winners and best national and international entries from the "Draw the sun's energy" contest, the "Focus on Energy" photographic competition, the "Ideas for the Future" drawing competition and the "More with less" architecture and urban planning contest. *Timetable: Mon-Thur 10:00-20:00 hrs and Fri-Sun 10:00-22:00 hrs.*

- **Passive House (Slow Energy):** Aimed at young people and adults, where an "unfolding" house is used to show how our existing houses can be transformed so that they hardly lose any energy,



through passive means (Passivhaus applied). *Timetable: 17:00-20:00 hrs. and Sat -Sun 11:00-14:00 hrs. and 17:00-20:00 hrs.*



Villa Solar
MADRID
14/09/2012 - 30/09/2012

www.sdeurope.org

Interesting facts:

En la primera edición de 2010, más de 200.000 visitantes pudieron conocer las casas más innovadoras del mundo en Madrid y participar en distintas actividades para todos los públicos relacionadas con las energías renovables.

Estos **19 equipos**, pertenecientes a **12 países de todo el mundo** (Alemania, Brasil, China, Dinamarca, Egipto, España, Francia, Hungría, Italia, Japón, Portugal y Rumania), convierten a esta edición **2012** en la más internacional de las celebradas.

The second edition of Solar Decathlon Europe is organized by the **Ministry of Public Works, Madrid City Council and the Polytechnic University of Madrid (UPM)**, through the Higher Technical School of Architecture of Madrid. Its main sponsors are **Schneider Electric and Kömmerling**, and its official collaborators: **AENA, ADIF, RENFE, INECO y FEVE**. It is also supported by **The US Department of Energy** and the **IDAE**.



MATERIAL:

- Visiting guides to the Villa Solar. Information about each team:
<http://bit.ly/TNfeGU>
- Selection of the best photos from Solar Decathlon Europe 2012:
<http://www.flickr.com/photos/sdeurope/sets/72157631433458846/>
- Videos of Solar Decathlon Europe 2012:
<https://vimeo.com/album/2073562>
- Videos made of Solar Decathlon Europe 2012:
<https://vimeo.com/album/2073558>
- Map of the Villa Solar:
<http://bit.ly/OrK1Id>
- Press releases from the teams:
<http://bit.ly/TNg5HR>

Web: www.sdeurope.org

Facebook: <https://www.facebook.com/sdeurope>

Twitter: @SDEurope

Blog: <http://blog.sdeurope.org/>

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