EUROSOLAR
The European Association
for Renewable Energy

2019 EUROPEAN SOLARPRIZE

FRIDAY
15TH NOVEMBER
LUXEMBOURG

euro
solar Letzebuerg a.s.b.l.

EUROPEAN SOLARPRIZE 2019

AWARD CEREMONY
Friday 15th November
Luxembourg

13h30 – 14h00 Visitors' reception

WELCOME AND MODERATION
Paul Kauten EUROSOLAR Lëtzebuerg a.s.b.l.
Prof. Peter Droege President of EUROSOLAR
Prof. Stéphane Pallage Rector of the University of Luxembourg

THE LUXEMBOURG ENERGY TRANSITION

CHALLENGES AND POLICY
Claude Turmes, Minister for the Energy

RESEARCH AND DEVELOPMENT
Prof. Susanne Siebentritt, Professor and head of the laboratory for photovoltaics at the University of Luxembourg and vice president of Eurosolar Lëtzebuerg a.s.b.l.

Henri KOX newly designated Minister of Housing and former president of EUROSOLAR Lëtzebuerg a.s.b.l

Discussion with speakers and audience

COFFEE BREAK
16h00 – 16h30

PRESENTATION OF AWARD WINNERS EUROPEAN SOLAR PRIZE 2019
Moderation: **Prof. Peter Droege**
President of EUROSOLAR

SPEECH IN HONOR OF THE WINNERS

GET-TOGETHER
18h30 – 19h30 with drinks and snacks

19h30 End of event

EUROPEAN SOLARPRIZE 2019

THIS YEAR'S EUROPEAN SOLAR PRIZE GOES TO:

Towns, municipalities, council districts, public utilities
Cloughjordan Ecovillage, Ireland

Solar architecture and urban planning
The High School for Health Professionals, Luxembourg

Industrial and commercial companies or farmers
Industrial Solar GmbH, Germany

Local or regional associations / organisations
Schoonschip, Netherlands

Owners and operators of renewable energy installations
The church St. Franziskus Ebmatingen, Switzerland

Education and vocational training
International student residence "mineroom", Austria

One World Cooperation
SUNfarming GmbH, Germany

Special achievement prize for personal commitment
Fridays For Future, International

Members of the jury:

Prof. Peter Droege, President of EUROSOLAR, Principality of Liechtenstein
Dr. Axel Berg, EUROSOLAR Germany
Gallus Cadonau, Solar Agency Switzerland
Prof. Eliana Cangelli, EUROSOLAR Italy
Johannes Hegger, hhs architects, Germany
Andre Langwost, EUROSOLAR France
Henri Kox, EUROSOLAR Luxembourg
Jennifer McIntosh, International Solar Energy Society (ISES)
Wolfgang Hein, EUROSOLAR Austria
Prof. Jürgen Sachau, University of Luxembourg

EUROPEAN SOLARPRIZE 2019

Cloughjordan Ecovillage
Ireland

Towns, municipalities, council districts, public utilities

Outstanding joint commitment to a sustainable community life

The Cloughjordan Ecovillage project set out to build a truly sustainable community including a diversified energy balance which guarantees energy security and minimizes ecological impact. The ecovillage uses Permaculture design to integrate green buildings, woodlands, organic agriculture, renewable energy and edible landscapes within a living community. The 35-hectare site incorporates over 20,000 newly planted trees to increase and sustain biodiversity, allotments and a community farm. More than 50 low energy homes and work units have already been built and further 80 are planned or under construction. There are a green enterprise centre, community buildings, an ecohostel for visitors and several other small businesses. The community also established Ireland's largest renewable energy district heating system which is powered by woodchip, and many homes have solar PV. The ecovillage project is a laboratory for economic experimentation, championing community supported agriculture, exploring community currencies, introducing local democracy and governance systems and playing a part in the strengthening of the local and regional economy.

The idea of creating the ecovillage was formally launched in 1999, the land in Cloughjordan was bought in 2005 and today it is a lively town with a population of around 600. Cloughjordan Ecovillage is a registered educational charity and an internationally recognised destination for learning about sustainable living. It has been identified as one of Europe's leading 'anticipatory experiences' of the transition towards a low-carbon society.

Contact

Sustainable Projects Ireland,
North Tipperary Green Enterprise Park,
Cloughjordan,
Co., Tipperary,
Ireland
www.thevillage.ie

EUROPEAN SOLARPRIZE 2019

The High School for Health Professionals
Luxembourg

Solar architecture and urban planning

The High School for Healthcare Professions in Ettelbruck is the first public school in Luxembourg built to the ambitious technical standard of a Positive Energy Building

The Lycée technique pour professions de santé à Ettelbruck integrates solar panels into the roof construction to produce a maximum of renewable electrical power while contributing to the unique aesthetic appeal of the building. Taking into account direct energy use as well grey energy, the focus lies on reducing the total ecological footprint of the building.

1626 solar panels, covering a surface of 2,120m², are integrated into the roof structure and serve as the outer shell of the construction. This design reduces the amount of building materials required and improves the building's carbon footprint. During the summer, 350 m² of solar collectors integrated into the outer facade of the building heat up water in a 90,000 litre storage tank to provide heating to the building. Thanks to extensive thermal insulation, this energy collected is enough to provide heating for most of the winter.

The solar panels and the thermal collectors are integrated into the outer shell of the building. The surplus of the annual production of electricity is enough to make up for the total amount of grey energy of the building, making it a true Positive Energy Building and a shining example of sustainability in modern buildings.

With the Administration des bâtiments publics as project leader, the construction was realized through joint effort by Fabeck Architectes, Betic Ingénieurs-Conseils and Daedalus Engineering. They created an outstanding example of what can be achieved in sustainable construction with teamwork, dedication and a common goal.

Contact

Betic S.A.
2, Route de Luxembourg, L-4972 Dippach, Luxembourg
www.betic.lu

Fabeck Architectes
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www.fabeckarchitectes.lu

Daedalus Engineering s.à r. l.
3, um Haff, L-7650 HEFFINGEN, Luxembourg
www.daedalus.lu

Administration des Bâtiments Publics
10, rue du Saint Esprit, L-1475 Luxembourg
www.abp.gouvernement.lu/fr.html

EUROPEAN SOLARPRIZE 2019

Industrial Solar GmbH

Germany

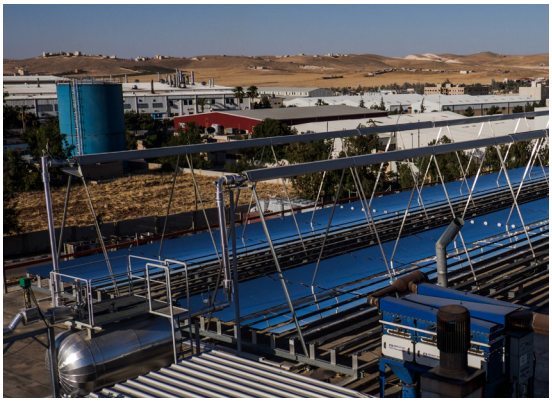
Industrial and commercial companies or farmers

Using the potential of solar thermal energy to meet the energy needs of industrial companies with its Solar Process Steam Generation for Industrial Heating and Cooling

Industrial process heat is responsible for around 20% of the energy demand worldwide, and for an accordingly high share of CO_2 emissions. Despite the vital importance of substituting this energy demand with renewables, sustainable solutions are so far rarely applied.

Industrial Solar has developed a solar steam generator to harness the great potential of solar thermal energy for process heating. A solar thermal collector converts solar energy into heat which can be used in different forms. The collector absorbs the incident sun rays and transfers the accruing heat to a fluid, thereby increasing its temperature. It can reach temperatures of up to 400°C and can significantly reduce the fuel consumption for industrial processes. The Fresnel solar steam generator can easily be applied in various industrial sectors such as food, beverage, textile, chemical, metal or pharma. Most importantly, no changes to the existing heat supply and distribution within the factories are required which is a key criterion for industrial decision makers. Industrial Solar's operating plants prove that solar process heating can contribute significantly to a carbon neutral process heat supply. The Fresnel solar steam generator is a paradigm shift away from fossil based energy in industrial heat supply.

The ability to create heat for industrial processes on the basis of solar energy is a major step towards a carbon neutral industrial production. With its approach to clean industrial heating and cooling, Industrial Solar is paving the way for a 100% renewable future.



Contact

Industrial Solar GmbH
Baslerstr. 115
79115 Freiburg im Breisgau
Germany
www.industrial-solar.de

EUROPEAN SOLARPRIZE 2019

Schoonschip
Netherlands

Local or regional associations/organizations

Building a sustainable floating neighbourhood in Amsterdam based on the shared use of renewable resources

The people living together in Schoonschip share not just their resources but also the vision of a more sustainable lifestyle for everyone.

The neighbourhood project consists of 46 households and a community centre for more than 100 inhabitants on 30 floating plots in the Johan van Hasseltkanaal, in the north of Amsterdam. The water homes are well-insulated and heat is generated by water pumps which extract warmth from the canal water. Tap water is heated by sun boilers, all showers are equipped with installations that recycle the heat and passive solar energy is optimized. Photovoltaic solar panels produce the electricity for the neighbourhood and every household has a battery to store surplus energy. All water homes are connected to a communal smart grid which enables an efficient energy distribution. For emergencies, they share just one connection to the national energy grid, and none of the households is connected to the natural gas network. Innovative micro-solutions to optimize the use and sharing of available resources are added frequently.

Schoonschip began as a foundation but was soon joined by a cooperative of households. Their working groups research and implement tasks such as sustainable mobility, communication, and the selection of building material. They cooperate with other projects in the neighbourhood of Buiksloterham as well as with innovative companies to advance the knowledge and expertise in the area of sustainable community life. The project is expected to be completed in 2020. Several inhabitants have already moved in and tours and presentations of Schoonschip are available since June 2019.

Contact

Schoonschip Foundation
Johan van Hasseltkade 213A
1032 LP Amsterdam
Netherlands
www.schoonschipamsterdam.org/en

EUROPEAN SOLARPRIZE 2019

St. Franziskus Ebmatingen
Switzerland

Owners or operators of renewable energy installations

The Ebmatingen church is a role model for harnessing the solar potential of churches

Energy from the heavens above is powering Ebmatingen's church St. Franziskus near Zurich.

The roman-catholic church St. Franziskus in Ebmatingen was built in 1989. During refurbishment in 2018/19 efforts were made to make the church carbon neutral. The renovations included the improvement of the roof insulation, new LED lightning, a solar-powered geothermal heat pump as well as a PVT installation of 161 m² for the use of solar heat and PV panels on the roof. Changing to a geothermal heat pump and disposing of the fuel heater will save 7,000 litres of fuel annually and reduce carbon emissions by 21 t. It also decreased the total energy need by approximately 35%, from 84,400 kWh per year to 54,700 kWh per year. The North-South facing PV installation has a performance of 90 kW. It produces 78,900 kWh per year which amounts to an energy supply of 221% of the church's energy needs.

Combining the old with the new keeps within the tradition of EUROSOLAR founder Hermann Scheer, who - although an agnostic - spoke at the inauguration of one of Rome's largest photovoltaic systems near St. Peter's Church in 2008. St. Franziskus Ebmatingen is a role model for harnessing the solar potential of churches everywhere and – one might say – for accepting one of heaven's gifts: the power of the sun.

Contact

Römisch-katholische Kirchgemeinde Egg/ZH
St. Franziskus Ebmatingen
Pfarrvikariat Maur in Ebmatingen
Flurstrasse 10, 8132 Egg/ZH, Switzerland
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Studerarchitekt
Daniel Studer, dipl. Arch. ETH SIA
Hüttenmattweg 19, CH-5213 Villnachern, Switzerland
www.studerarchitekt.ch

BS2 AG – Building Technology Park
Brandstrasse 33, CH-8952 Schlieren, Switzerland
www.bs2.ch

EUROPEAN SOLARPRIZE 2019

mineroom
Austria

Education and vocational training

Raising students' awareness of sustainable living based on renewable energies

The student residence "mineroom" is the first global high-volume passive house which provides a sustainable home for 201 international students during their time in Leoben. By creating a green home for students coming to Austria from all over the world, "mineroom" integrates renewables into everyday life and makes an impact on what is perceived as the standard way of living in society.

"mineroom" is constructed almost entirely from timber, the only exception being the entrance area, the basement and the two staircases. The outer walls of the residence consist of a timber frame construction with a mineral wool-finish. About 1,900 m³ of wood were used for supporting the structure and the facade, thereby binding approx. 2,000 tons of CO_2. A Photovoltaic system on the roof accounts for the building's energy supply. It consists of 388 PV modules which produce 105,000 kWh energy per year. This amounts to an annual reduction in carbon emissions of 12,600 kg.

"mineroom" is an example of Austria's leading role in eco-friendly construction. It was built by the OeAD-Housing Office in cooperation with the Gemeinnützige Wohn- und Siedlungsgenossenschaft Ennstal and the city of Leoben. The green design was created by the architects from AAP Architekten ZT-GmbH. "mineroom" opened its doors after only 11 months of construction in October 2016 and has since been raising international students' awareness of the role of renewable energies in sustainable housing and a low-carbon future.

Contact
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www.housing.oead.at/en

EUROPEAN SOLARPRIZE 2019

SUNfarming GmbH

Germany

One world cooperation

Combining the production of green electricity and food for and with local communities

Decentralisation and an unlimited supply are distinguishing features of renewables energies. The very nature of how renewables are produced predestines them to secure the energy demand in emerging economies, to strengthen local communities and to increase peoples' independence from global markets and international fossil giants.

The project developer and operator of photovoltaic plants SUNfarming shares our common goal towards 100% decentralized, renewable energies for all. It is cooperating with people in emerging economies to produce food and energy simultaneously and in a sustainable way. The SUNfarming programs consist of Food & Energy greenhouses and -photovoltaic agriculture plants as well as educational Solar Training Centres, all of which are specifically designed for rural development. They combine training on food and green energy production and as a result create jobs and spread renewables. SUNfarming is cooperating with local educational institutions to offer not only their technology and expertise, but also sustainable education and a long lasting economic contribution. The SUNfarming Solar Training Centres in Peru, South Africa and Syria have already trained several hundred people in electrical engineering. Recently, SUNfarming has met the Albanian government for talks over opening a Solar Training Centre there.

Renewable Energies have the potential to fight poverty, promote peace and create flourishing societies everywhere. With their Food & Energy programs, SUNfarming is cooperating successfully with local communities and takes part in creating sustainable economies all over the world.

Contact

SUNfarming GmbH
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Germany
www.sunfarming.de/en

EUROPEAN SOLARPRIZE 2019

Fridays For Future
International

Special achievement prize for personal commitment

Creating a world-wide youth movement advocating the immediate need to tackle climate change

„What is the point of learning facts when the most important facts clearly mean nothing to our society? Act finally – so that we have a future.“ *Greta Thunberg*.

The Fridays For Future movement goes back to August 2018, when 15 year old Greta Thunberg sat in front of the Swedish parliament every schoolday for three weeks to protest against the lack of action on the climate crisis. She posted what she was doing on Instagram and Twitter and it soon went viral. Greta decided to continue striking every Friday until the Swedish policies provided a safe pathway well under 2-degree Celsius, in line with the Paris agreement. The hashtags #FridaysForFuture and #Climatestrike spread and many students and adults began to protest outside of their parliaments and local city halls all over the world.

The FFF-movement has spread over more than a hundred countries and inspired thousands of people to come together, built networks and initiatives. They organized not just school strikes and protests but also the Global Week for Future around the Climate Action Summit in New York. The key protest “All for Future” on Friday, 20 September 2019, saw people flooding the streets across 4,500 locations in more than 150 countries. With numbers ranging from 6 – 7.6 Millions people taking part, it is likely to be the largest climate protest in world history.

Ongoing coverage of Greta Thunberg, the school strikes on Fridays and its impact have pushed the crucial issue of climate change to the top of the news agenda for month. Fridays For Future is making a major contribution to raising the awareness for the climate crises and the need to create a low carbon future, including switching to 100% renewable energies.

Contact
Fridays For Future
www.fridaysforfuture.org