

The logo for EUROSOLAR, featuring the word "EURO" stacked above "SOLAR" in a sans-serif font. An orange triangle is positioned above the text, and a thin line extends from the bottom right of "SOLAR".

EURO
SOLAR

EUROSOLAR
The European Association
for Renewable Energy

A close-up photograph of a silver trophy. It features a central globe with a solar panel design, surrounded by curved, metallic arms. The background is blurred, showing other similar trophies.

2021/22 EUROPEAN SOLAR PRIZE

AWARD CEREMONY
2 DECEMBER 2021

Two solid-colored squares, one purple and one orange, are located in the bottom left corner of the page.

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EUROPEAN SOLARPRIZE 2021 | 22

THIS YEAR'S EUROPEAN SOLAR PRIZE GOES TO:

Towns, municipalities, council districts, public utilities
Berliner Stadtwerke, Germany

Towns, municipalities, council districts, public utilities
City of Paris, France

Solar architecture and urban planning
Bildungscampus Seestadt Aspern, Austria

Industrial and commercial companies or farmers
SUSI Partners AG, Switzerland

Local or regional associations / organisations
Thuisbaas, Netherlands

Owners or operators of renewable energy installations
Ørsted, Denmark

Transport and mobility
Standseilbahn Magglingen, Switzerland

Education and vocational training
Eurac Research – Institute for Renewable Energy, Italy

Education and vocational training
EFdeN, Romania

One World Cooperation
Solafrica, Switzerland

Members of the jury:

Claus Baumeister, Tetra Systems, EUROSOLAR Trustee
Dr. Axel Berg, Chair, EUROSOLAR Germany
Gallus Cadonau, Director, Solar Agency, Switzerland
Professor Eliana Cangelli, University of Rome, Chair, EUROSOLAR Italy
Professor Peter Droege, EUROSOLAR President, Jury Chair
Nikos Fintikakis, International Union of Architects VP RII, Greece
Johannes Hegger, Hegger Hegger Schleiff Architects, Germany
Wolfgang Hein, Chair, EUROSOLAR, Austria
Dr. Panos Mantziaras, Director, Fondation Brailard, Switzerland
Jennifer McIntosh, Executive Secretary, ISES, Germany
Dr. Josep Puig, Chair, EUROSOLAR Catalonia and Spain
Fabian Stichtenoth, RE Student, Fridays for Future Germany



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Berliner Stadtwerke
Germany

Towns, municipalities, council districts, public utilities

Commitment to advancing the energy transition in Berlin, across all city precincts

With municipal green electricity and over 250 green energy projects in Berlin and the region, the Berliner Stadtwerke are committed to make the capital a city worth living in. They want to advance the energy transition in Berlin, across all city precincts. Together with their customers and projects in every district, they are shaping the energy future for a climate-neutral Berlin. In order to make this possible the Berlin municipal utilities pursue approaches of sustainable tenant electricity, municipal green electricity as well as green energy projects.

For sustainable tenant electricity, solar panels were installed on the roofs of the capital, which

generate fair green electricity. As a municipal company, they bear local responsibility and therefore rely on local energy generation, which can create added value for the quality of life for the people in Berlin. By offering municipal green electricity, they are committed to an environmentally friendly and secure energy supply. In doing so, they are making an important contribution to a climate-neutral capital city. Through green energy projects, they support a carbon-neutral energy future with sustainable infrastructure. Their innovative energy solutions and green power projects are based on local partnerships.

Berliner Stadtwerke is making an important contribution to the local energy transition and the expansion of renewables.



Photo: ©Berliner Stadtwerke

Contact

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EUROPEAN SOLARPRIZE 2021 | 22

City of Paris
France

Towns, municipalities, council districts, public utilities

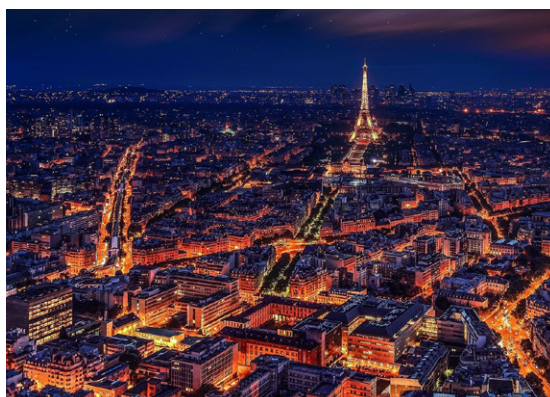
Its pioneering role as a capital in climate protection. In particular for their promotion of sustainable urban mobility, renewable energy projects and their efforts to decarbonize the transport sector

As a capital city, Paris is taking on a pioneering role in climate protection. In particular, the promotion of sustainable urban mobility, the implementation of renewable energy projects and its efforts to decarbonize the transport sector distinguish Paris as a pioneer in its efforts to combat the climate crisis.

The Paris Climate Action Plan sets ambitious targets for reducing greenhouse gas emissions that will ensure Paris does its part to meet the

international climate agreements. More than 500 municipal actions are detailed in the plan, organised around three timeframes. Importantly, this Climate Action Plan not only addresses emissions produced in the city, but also the emissions embedded within goods and services consumed by the city. The goal of the plan is to cut energy consumption in half, develop renewable energy, renovate buildings, and encourage the city to change its consumption and transportation patterns.

Paris thus highlights the need for rapid action in the fight against the climate crisis and shows how many measures are needed for effective climate protection in all sectors. With their Climate Action Plan, they are taking on a pioneering role as a European capital.



Contact

Anne Hidalgo (Mayor)
France
www.paris.fr



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Bildungscampus Seestadt Aspern
Austria

Solar architecture and urban planning

The Creation of a climate-active educational campus integrating materials, efficiency and renewable energy, which can inspire children about renewable energies

The climate-active educational campus Seestadt Aspern integrates different alternative energy systems, allowing children to learn about renewable energies in a fun and everyday way. Numerous terraces, a generous garden as well as a clear and open structure of the floor plans characterize the 12,000 m² building on a 4.8 hectare site. Both indoors and outdoors, the building offers plenty of space for working across classes and groups, and the cluster-like arrangement of the rooms means they can be used in a variety of ways. The four-story building ensemble provides space for 800 children.

Thanks to alternative energy systems for heating and hot water, the building is almost energy self-sufficient. There is a groundwater heat pump, a solar thermal system on the roof and heat recovery from the exhaust air, which are used for heating. Electricity is partly generated from the photovoltaic system on the roof. Throughout the building, controlled room ventilation provides fresh air, and automatically controlled external blinds protect against overheating. The gardens are irrigated with service water from the well.

Incorporating alternative energy systems into the climate-active educational campus creates an everyday learning space for children to learn about the benefits of renewable energy in a practical way.



Fotocredit: ©Gisela Erlacher

Contact

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SUSI-Partners AG
Switzerland

Industrial and commercial companies or farmers

Important and pioneering contribution in exclusively financing renewable energies, efficiency and renewable energy storage projects and therefore the advancement of the energy transition

The energy transition requires substantial capital investment. SUSI Partners AG is a private fund manager investing in sustainable energy infrastructure to generate attractive risk adjusted returns for their clients and their beneficiaries while contributing meaningfully to global carbon neutrality. Their work owes its existence to its founder and first CEO, Tobias Reichmuth, whom EUROSOLAR recognizes with the Prize jointly.

The company was founded in 2009 with the mission to fight climate change by furthering

the transition of the energy sector – a key driver of CO₂ emissions and global warming. Limiting the rise in global temperature to a minimum requires a significant reduction in CO₂ emissions towards net-zero over the coming years. As a fund manager dedicated to investing in sustainable energy infrastructure, they direct institutional capital towards projects that help decarbonise energy production, increase energy efficiency and enable the utilisation of clean energy.

SUSI Partners are therefore making an important and pioneering contribution in exclusively financing renewable energies, efficiency and renewable energy storage projects. In this way, they are making a difference in advancing the energy transition.



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Thuisbaas
Netherlands

Local or regional associations/organizations

**showing renters and house owners
how to switch from natural gas
to renewable energy**

Thuisbaas, a non-profit organization, is showing renters and housing corporations, as well as house and apartment owners, that disconnecting from natural gas, generating as much energy as possible on site, and converting one's home to 100% sustainable energy is possible and affordable.

By demonstrating affordable retrofits, they shifted the conversation from whether it is possible to retrofit existing houses to be energy neutral and natural gas free to how it should be

done. In a pilot project, Thuisbaas in cooperation with two housing corporations, disconnected the natural gas in 30 rental apartments. Furthermore they led the energy- or climate-neutral renovation of a few hundred privately owned houses, from apartments to rowhouses to farm houses, using heat pumps and convection heaters, solar panels, induction stoves and infrared heating panels.

Thuisbaas shows that it is possible and affordable to decouple from natural gas, generate energy on site and use their self-generated and sustainable energy. In this way, they make an important contribution to climate protection and the advancement of the energy transition.

Photo: ©Thuisbaas



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Standseilbahn Magglingen *Switzerland*

Transport and mobility

The innovative use of braking energy and photovoltaics, which allows the operation of the funicular by green electricity generated on site

Thanks to the use of braking energy and photovoltaics, the Biel-Magglingen funicular in Switzerland runs to a large extent on green electricity generated on site. Energy costs have thus been reduced by 30 %. Since 1887, a funicular railroad has been running from the city of Biel to the Juraanhöhe near Magglingen. The railroad not only transports excursionists, it is part of the public transport system with a dense timetable. In 2019, the railroad underwent a major overhaul, and a 42 kilowatt PV system went into operation on the roof of the top station.

The funicular is using braking energy to master the ascent to the mountain. The two carriages, which each offer space for 120 people,

are connected by a haul rope. When one of the cars sets off from the bottom station, it needs traction energy to gain altitude. Once it has covered a good half of the 1700 m distance, no more energy is required, because the downhill train and the associated haul rope are now so heavy that they are able to pull the first wagon up. The wagon traveling downhill must now be braked, so that the energy released in the process can be recuperated. In this way, the funicular railroad constantly alternates between energy input and output.

In addition to the PV system, a battery with 68 kilowatt hours of storage capacity is the central component of the energy system. It stores the recuperated braking energy until it can be used for the next uphill journey, as well as excess solar power from the PV system. In this way, more than 80 % of the self-generated energy can be used for the funicular.

Photo: ©Bielersee Schifffahrtgesellschaft AG



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Ørsted
Denmark

Owners or operators of renewable energy installations

Successful transformation of the company's focus away from fossil energy to 100% renewables

The company Ørsted underwent a successful transformation away from their focus on fossil energies towards 100% renewables. With the vision of a world that runs entirely on green energy, their target is to be a carbon neutral company by 2025. Ørsted develops, constructs, and operate offshore and onshore wind farms, solar farms, energy storage facilities, and bioenergy plants, and provide energy products to their customers.

Ørsted is now one of the largest renewable energy companies globally with over 11 GW of

capacity installed, which shows that a quick transition is not only possible but also economically sensible. This transformation also enabled a significant reduction of carbon emissions.

The transformation of the company away from fossil energy production to 100 % renewable energy is a role model and will hopefully inspire other companies as well. In a short time, they have mastered an all-encompassing transformation, making a significant contribution to sustainable, renewable energy production.

Fotocredit: ©Ørsted



Contact

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Eurac Research – Institute for Renewable Energy
Italy

Education and vocational training

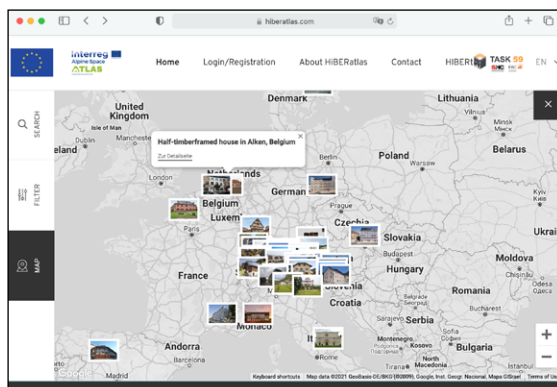
For the Historic Building Energy Retrofit Atlas, a best-practice database for energy-efficient measures in historic buildings. With this award EUROSOLAR also recognises Eurac Research's work across research and teaching over ten years

The Historic Building Energy Retrofit Atlas is a best-practice database for energy efficient interventions in historic buildings. It presents how historic buildings can be renovated to achieve high levels of energy efficiency while respecting and protecting its heritage significance. With this award EUROSOLAR also recognises the work of the Institute for Renewable Energy at Eurac across research and teaching over the years.

The documentation gathered in the Atlas provides information on the buildings and their

construction, heritage assessment, building material specifications, energy efficiency, building services, comfort and on refurbishment solutions and products. The database was released in September 2019 and developed by two research projects, which were both coordinated by Eurac Institute for Renewable Energy.

It is one of many ongoing projects of the Eurac Institute for Renewable, which is based in Bolzano in South Tyrol. They focus their work on getting energy supply CO₂ neutral to counteract climate change. To achieve this, they collaborate with industry partners on technological innovations and advise decision-makers. With the Historic Building Energy Retrofit Atlas, they are making an important contribution to energy efficient interventions in historic buildings and make an important contribution to climate protection.



Contact

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EFdeN
Romania

Education and vocational training

Promoting sustainable development by educating the public, transforming people's lifestyle and improving energy efficiency in Romanian cities

EFdeN is a multidisciplinary NGO with an educational project promoting sustainable development by educating the public, transforming people's lifestyle and improving energy efficiency in Romanian cities, while keeping the academic and research environment close at hand at all times.

EFdeN address five different groups within their educational project: youths, children and

teenagers, companies and the general public. EFdeN hosts events, workshops and develops educational programmes in a non-formal environment. Their projects provide volunteering students with a great opportunity for practical and accelerated professional as well as personal development.

With its educational project, EFdeN is making an important contribution to bringing sustainability issues closer to the Romanian population and to raise enthusiasm for sustainable development.

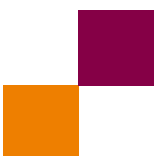
Photo: © EFdeN.org



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Solafrica
Switzerland

One World Cooperation

Commitment and success as a climate and development organization, to the widespread use of solar energy for over 10 years, especially in Africa but also other regions worldwide

Solafrica is an independent Swiss development and climate protection organization for the promotion of solar energy. They have been committed to the widespread use of solar energy for over 10 years, especially in Africa but also other regions worldwide. Since their foundation they provided thousands of people with

access to renewable energy and several hundred received an education in solar energy.

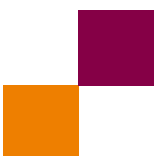
The goal is to spread solar energy to create development opportunities for people and protect the climate. Its focus is particularly on the education of young people, solar entrepreneurship and energy supply. Solafrica wants to give all people access to electricity and thus opportunities for development. At the same time, they contribute to climate protection and the expansion of renewable energies.

Photo: © Solafrica



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Heliograph

Heliograph is a current term for a device called sunshine autograph, a meteorological instrument that can be used to determine the duration of sunshine of a day. It works on the principle of a burning glass when its glass ball is hit by direct sunlight. Through the changing angle of the sunshine in the course of a day the burning point moves on. With a special paper stripe you receive a burned line from which you can easily conclude the duration of sunshine.

The Solar Prize sculpture was created by Emil Schult, who had been inspired by this instrument.

