



RENEWABLE  
ENERGIES



IN THE FOCUS:

SOLAR ENERGY

# WIP RENEWABLE ENERGIES

YOUR PARTNER IN THE FIELD OF RENEWABLE ENERGIES





## OUR MISSION



The current energy infrastructure worldwide must be transformed with the objective to reduce fossil energy related conflicts, mitigate climate change, and avoid other negative impacts of nuclear and fossil energy systems.

Our mission is to contribute to this goal by *facilitating research, innovation and market integration of renewable energy systems* through collaborative efforts across all sectors of society.



## EXPERTISE



WIP is a renewable energy consultancy with a long history of managing research and innovation projects and organizing leading conferences and events in the sector. With *more than 30 years of experience* and a *multinational team of over 20 people*, we have already successfully implemented *more than 350 European and international projects* in the field of Renewable Energy.

## OUR CONSULTANCY SERVICES

### Research, Consultancy, Communication and Exploitation Services

#### Research & Consultancy

We have a long track record of carrying out *high-quality studies* in all areas where our company is active. The type of work ranges from *economic assessments and market research to policy analysis and Life Cycle Assessments*.

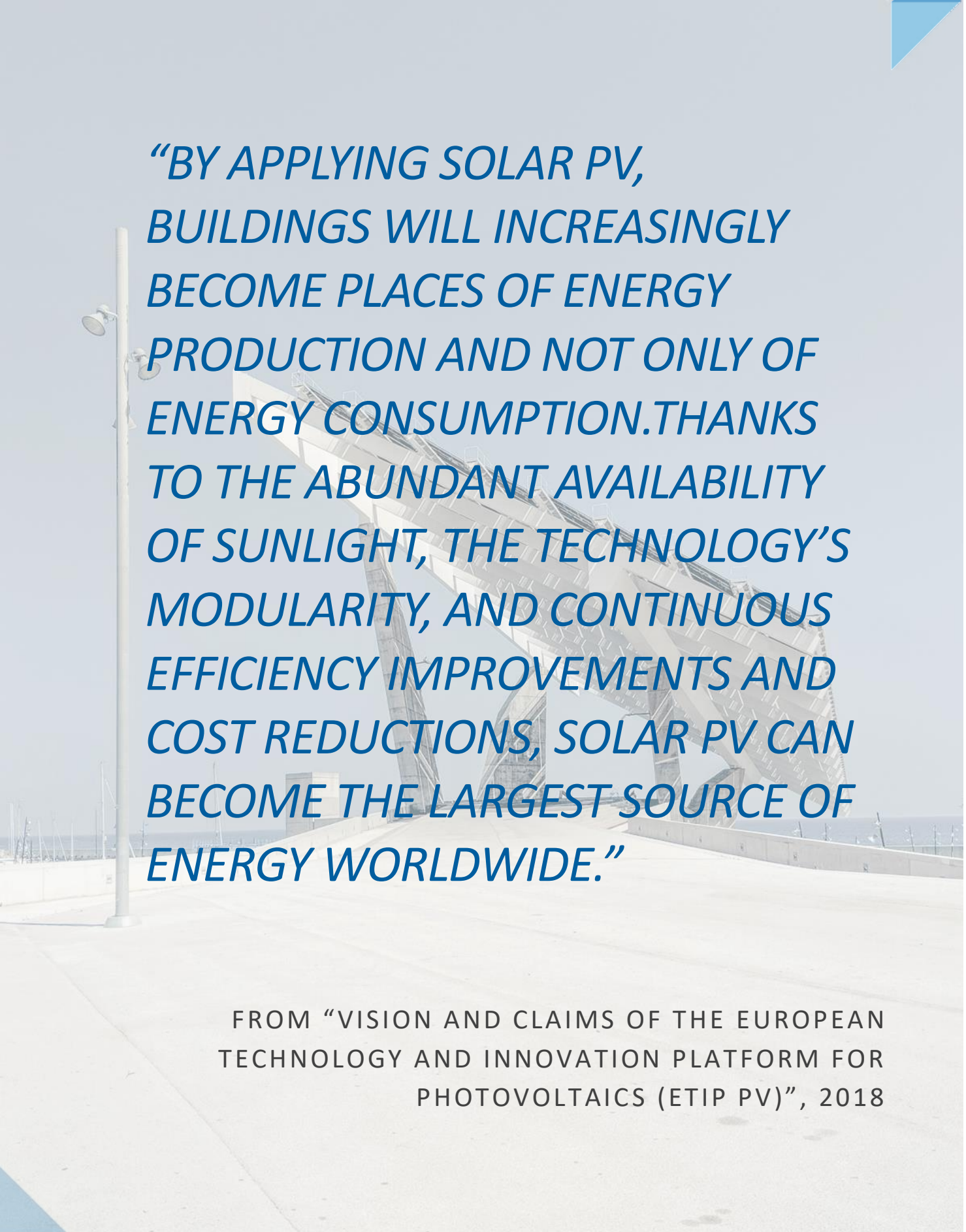
#### Comms, dissemination and exploitation

We have a team of experts who develop *communication campaigns*, Stakeholder workshops as well as *strategies for the exploitation of R&I project results*, targeting either the general public or selected target groups.

#### Event Organisation

WIP's expertise with event organization includes the *conception, pre-financing, preparation, organisation and management* of high-level and large-scale international conferences, workshops, seminars and exhibitions in the field of Renewable Energy.





*“BY APPLYING SOLAR PV,  
BUILDINGS WILL INCREASINGLY  
BECOME PLACES OF ENERGY  
PRODUCTION AND NOT ONLY OF  
ENERGY CONSUMPTION. THANKS  
TO THE ABUNDANT AVAILABILITY  
OF SUNLIGHT, THE TECHNOLOGY’S  
MODULARITY, AND CONTINUOUS  
EFFICIENCY IMPROVEMENTS AND  
COST REDUCTIONS, SOLAR PV CAN  
BECOME THE LARGEST SOURCE OF  
ENERGY WORLDWIDE.”*

FROM “VISION AND CLAIMS OF THE EUROPEAN  
TECHNOLOGY AND INNOVATION PLATFORM FOR  
PHOTOVOLTAICS (ETIP PV)”, 2018



## IN THE FOCUS: SOLAR ENERGY

Solar energy has the potential to drastically decrease GHG emissions from the power sector and in other sectors through electrification. 2019 was the strongest growth year for solar in Europe since 2010, with more new solar capacity added this year than any other power generation technology.

The EU funds research and demonstration projects to support the development and innovation of reliable, economically viable solar-driven energy solutions. With the same objective, WIP is engaged in the implementation of many of these projects, thus enabling the solar energy sector to help meet the challenge of drastic decarbonisation.

## OTHER THEMATIC AREAS AT WIP:

### Renewable Energy Technologies

- Solar energy
- Bioenergy & bioeconomy
- Wind energy
- Hydropower
- Other Renewable Energy technologies

### Energy System Integration

- Energy storage and grid integration
- Energy efficiency
- Smart cities and networks
- Sector coupling

### Market Uptake

- Social Innovation
- Policy development
- Sustainability analysis
- Training and capacity building
- Communication and Exploitation

*...and many more!*



## IN THE FOCUS: WIP'S PROJECTS ON SOLAR ENERGY

### PV IMPACT



#### **Actual execution of the Implementation Plan for Photovoltaics of the SET Plan and monitoring the Implementation Plan's delivery**

PV Impact will try out a variety of approaches to stimulate the private sector to spend more on PV research, development and innovation in Europe. The ultimate goal of the project is to support and monitor the execution of the PV Implementation Plan in the framework of the Strategic Energy Technology (SET) Plan. (European Commission, 2019-2022, [www.pvimpact.eu](http://www.pvimpact.eu))

### Super PV



#### **Cost Reduction and Enhanced Performance of PV Systems**

SUPER PV is pursuing an ambitious but realistic goal for innovative PV system cost reduction and consequently significant LCOE reduction (26%-37%) by adopting hybrid approach combining technological innovations and Data Management methods along the PV value chain. To achieve that, key actions are implemented at three main levels within the PV value chain: PV module innovation level, power electronics innovation level and system integration level. (European Commission, 2018-2022, [www.superpv.eu](http://www.superpv.eu))

### ETIP PV



#### **European Technology and Innovation Platform for Photovoltaics**

The European Technology and Innovation Platform for Photovoltaics is supporting the European Commission with the Strategic Energy Technology Plan (SET Plan). The activities focus on the opportunities and challenges facing the European Photovoltaic sector. It makes recommendations with a view to improving the competitiveness of the European PV Industry, both the upstream segments (including feedstock supply, equipment manufacturing, cell and module production) and the downstream segments (including technical solutions for grid integration, market solutions for grid integration, installation). (European Commission, 2013-2016, 2016-2018 and 2018-2021, [www.etip-pv.eu](http://www.etip-pv.eu))



## SocialRES

### Fostering Socially Innovative and Inclusive Strategies for Empowering Citizens in the Renewable Energy Market of the Future



The aim of SocialRES is to foster energy democracy through social innovation and the active collaboration between cooperatives, aggregators of renewable energy and crowdfunding platforms. Data coming from the real-life implementation of nine case studies will be analyzed in order to define what drives social innovation and why people decide to participate in renewable energy projects. (European Commission, 2019-2022, [www.socialres.eu](http://www.socialres.eu))

## EnergyMatching

### Adaptive and adaptable envelope RES solutions for energy harvesting to optimize EU building and district load



The overall objective of the project is to maximize the RES harvesting in the built environment by developing and demonstrating cost-effective active building skin solutions as part of an optimised building energy system, being connected into local energy grid and managed by a district energy hub implementing optimised control strategies within a comprehensive economic rationale balancing objectives and performance targets of both private and public stakeholders. (European Commission, 2017-2022, [www.energymatching.eu](http://www.energymatching.eu))

## BIPVBOOST

### Bringing down cost of multifunctional BIPV solutions and processes along the value chain, enabling widespread nZEBs implementation



The overall ambition of the BIPVBOOST project focuses on bringing down the cost of multifunctional building-integrated photovoltaic (BIPV) systems, limiting the overcost with respect to traditional, non-PV, construction solutions and non-integrated PV modules. This will be done through an effective implementation of short and medium-term cost reduction roadmaps addressing the whole BIPV value chain and demonstration of the contribution of the technology towards mass realization of nearly Zero Energy Buildings. (European Commission, 2018-2022, [www.bipvboost.eu](http://www.bipvboost.eu)).

## EU PVSEC



### European PV Solar Energy Conference and Exhibition

The EUPVSEC is a fixed appointment in the calendar of PV experts and has been for decades. It gathers the global PV community to conduct business, to network and to present and discuss the latest developments and innovations in Photovoltaics. It is the world renowned science-to-science and science-to-industry platform with a full and only focus on the global PV Solar sector. The five-day Conference is complemented by the four-day Exhibition that gives the opportunity to meet different target groups: the global PV community, from science and PV industry will gather at the EU PVSEC. Technologies, innovations and new concepts in the upstream PV sector are the main characteristics. From total participants about 50% is represented by PV researchers and 40% by PV industry. (Supported by the European Commission, 1977-ongoing on a yearly basis, [www.photovoltaic-conference.com](http://www.photovoltaic-conference.com))

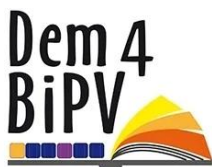
## PVSITES



### Building Integrated Photovoltaic Technologies and Systems for Large-Scale Market Deployment

The main objective of PVSITES project was to drive BIPV technology to a large market deployment by demonstrating an ambitious portfolio of building integrated solar technologies and systems, giving a forceful, reliable answer to the market requirements identified by the industrial members of the consortium in their day-to-day activity. (European Commission, 2016-2019, [www.pvsites.eu](http://www.pvsites.eu))

## Dem4BiPV



### Development of innovative educational material for building-integrated photovoltaics

The aim of the Dem4BiPV project was to develop an innovative and multidisciplinary high-quality course for Building-integrated Photovoltaics (BIPV) to train the BIPV professionals of the future. The course was implemented at the postgraduate level and was part of a Master's in Sustainable Energy in a number of leading universities in Europe. (European Commission, 2015-2018, [www.dem4bipv.eu](http://www.dem4bipv.eu))



## PV Parity



### Definition of grid-parity for photovoltaics and development of measures to accompany PV applications to the grid-parity and beyond

The PV PARITY project aims at contributing to the achievement of further PV penetration in the EU electricity market and to the attainment of PV competitiveness at the lowest possible price for the community. (European Commission, 2011-2013, [www.pvparity.eu](http://www.pvparity.eu))

## install+RES



### Training Courses for Installers of Small-Scale Renewable Energy Systems in Buildings

The objective of the Install+RES project is to establish large scale institutionalized training courses for the qualification of trainers and the certification of installers of small-scale renewable energy systems (biomass, solar, PV and heat pumps) in buildings. (European Commission, 2010-2013, [www.resinstaller.eu](http://www.resinstaller.eu))

## BioSoLESCO



### Biomass and Solar Heat Contracting in Public and Private Buildings

The overall aim of the Bio-Sol-ESCO project is to promote the implementation of biomass and solar ESCO schemes. This is done in two project phases. (European Commission, 2008-2011, [www.biosolesco.org](http://www.biosolesco.org))

## SUNRISE



### Strengthening the EU PV Sector by cooperation with important stakeholders

The SUNRISE project aimed at enhancing co-operation between the building sector, architects, electrical installers and utilities to facilitate the uptake of building integrated PV and network integration. The project focused on two main working groups: PV Diffusion in the building sector and PV Network Integration. (European Commission, 2007-2010, [www.pvsunrise.eu](http://www.pvsunrise.eu))

## PV Employment The role of the European PV industry for the Europe's jobs and education today and tomorrow



An input-output model with special emphasis on the production structure of the different stages of PV production, installation, operation/maintenance, recycling and R&D has been developed. This has been based on the available input-output tables of key member countries of the EU. The model has allowed the calculation of the expected numbers of net created jobs by the European PV industry. Different market scenarios e.g. up to 2050 were fed into this model. Another key result about the European PV industry were the qualification profiles of its employees. (European Commission, 2006-2009, [www.pvemployment.org](http://www.pvemployment.org))

## PV Catapult European Collaboration for identification of PV research and markets opportunities, Socio-economics, studies, performance assessment and dissemination of PV and PV-thermal technology



The overall aim of the coordination action PV Catapult was to ensure that the European PV sector can fully benefit from the expansion of the PV market. The approach of PV Catapult was to identify new routes that decrease costs for PV electricity and improve the performance and reliability PV and PV Thermal systems. (European Commission, 2003-2006, [www.pvcatapult.org](http://www.pvcatapult.org))

## PV Enlargement Technology Transfer, Demonstration and Scientific Exchange Action for the Establishment of a strong European PV Sector



The project aim was a standardised comparison of innovative grid-connected PV technology in 11 countries of Europe. 29 different technology and innovative PV systems with a total capacity of > 1,2 MWp were installed and technically monitored. (European Commission, 2003-2006, [www.pvenlargement.com](http://www.pvenlargement.com))



## GET IN TOUCH WITH US

### Consultancy services

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