SMART PVWINE

Advanced PV system with intelligent management to improve wine production

Project Goals

- Developing an innovative agrovoltaic (AV) system with light management to reduce the land-use conflict between photovoltaic (PV) plants and agriculture by demonstrating a new symbiotic and efficient use.
- Promoting AV development, with increases in energy yield (kWh/m2) and vine production, while developing a digital twin to optimize both productions, maximizing land interests and achieving a compromise decision: higher agricultural production together with high energy generation.
- It will be carried out specific developments of 3D printed Lenses and Diffuser Elements in combination with ad hoc semitransparent PV Panels for energy generation and light management on crops (bio-suitable light) with an innovative concept of solar tracking according to crop needs.
- Predictive model for new AV developments in vineyards, as a future decision-making tool.

Project Financing

- Granting aid for "Public-Private Partnership projects", 2022 call.
- PROJECT FILE NUMBER : CPP2022-010020

Budget and Implementation Period

• Implementation Budget: 1.185.468,84 €

• ISFOC Budget: 425.695,00 €

• Implementation Period: 2023 - 2026

GOBIERNO DE ESPAÑA

MINISTERIO DE CIENCIA E INNOVACIÓN















EMPLEA2 SOLAR

"Virtual platform for training and promotion of labour insertion in the photovoltaic sector"

Project Goals

- Improving the quality of training and competitiveness in the photovoltaic sector through digitalisation using innovative Industry 4.0 technologies (virtual reality, web-based virtual simulators, simulation through hardware interaction).
- Digitalising the training processes applied to occupational risks prevention in the photovoltaic sector.
- Improving the availability of qualified staff to work in the photovoltaic sector.
- Promoting economic, social and territorial cohesion through the innovative platform for collaboration and training, making it more accessible, efficient, sustainable and economical through the digital innovations proposed.
- Integration of Blockchain technology for the identification and protection of digital training certificates, thus reducing recruitment costs and, therefore, stimulating the labour market in the photovoltaic sector.
- Demonstrating and evaluating the improvements in training and employability obtained from the developed demonstrator.

Project Financing

- AEI 2023 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Industry, Trade and Tourism
- PROJECT FILE NUMBER: AEI-010500-2023-88











Budget and Implementation Period

• Implementation Budget: 238.902,00 €

• ISFOC Budget: 60.170,00 €

• Implementation Period: 11 months













METAVERSO II

"Predictive maintenance platform for virtual monitoring in the metaverse of photovoltaic installations" (Second Phase)

Project Goals

- Research on the application of virtual platforms in the metaverse integrating real-time streaming systems, IoT platforms and artificial intelligence algorithms, identifying the functional improvements that these new systems will entail and assessing the economic cost of their implementation in comparison with current monitoring and maintenance systems.
- Implementation of an analytical and predictive maintenance solution, integrating IoT technology (sensors and Edge-Cloud platform) in order to carry out advanced and predictive analytics (both to have a real-time predictive failure model and all the data centralised) within the framework of a virtual control centre for the photovoltaic sector based on *Metaverso*.
- Carrying out a pilot project to implement both a virtual control centre and an analytical and predictive maintenance solution for photovoltaic plants.

Project Financing

- AEI 2023 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Industry, Trade and Tourism
- PROJECT FILE NUMBER: AEI-010500-2023-22









Budget and Implementation Period

• Implementation Budget: 243.996,00 €

• ISFOC Budget: 56.322,00 €

• Implementation Period: 11 months















H₂ORA

"Water resource optimization for the production of Green Hydrogen"

Project Goals

- Development of a digital database of wastewater types that can be used for the generation of Green H2.
- Digitizing and automating the communication in-between the wastewater producers, the wastewater treatment plants developers and H2 generation plants developers to optimize the implementation of H2 generation systems.
- Stablishing the critical parameters for assessing the suitability of a wastewater type for the electrolysis process and analysing the wastewater treatment options according to the type (feasibility, performance and approximate cost €/m3) and exploring alternative water treatments suitable for different types of wastewater (membranes, ion exchange, advanced oxidation, photocatalysis and bioreactors with bacteria).
- Development of a SW tool to optimize the wastewater management in Green H2 generation. SW tool accessible to any
 user in the sector for decision making regarding water availability and use.
- To validate the whole process of information collection, management and processing through the IoT platform and the
 optimization SW tool using real cases of wastewater.

Project Financing

- AEI 2023 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Industry, Trade and Tourism
- PROJECT FILE NUMBER: AEI-010500-2023-61









Budget and Implementation Period

• Implementation Budget: 205.397,00 €

•ISFOC Budget: 39.362,00 €

Implementation Period: 11 months













LEADING

Technological evolution of energy communities

Project Goals

- Analysis of the legislative framework and the state of the art of other renewable generation resources beyond solar energy, as well as storage and mobility systems.
- Prototyping of monitoring and control systems at local level and implementation of a simulation software for Energy Communities to adapt them to the new typified components, using an open architecture in both software and hardware.
- Development of real-time simulators to replace high-cost or difficult-to-install equipment at the validation test level.
- Development of a-smart management system to validate the proposed innovations.
- Implementation of a scaled pilot installation to simulate the performance of an Energy Community integrating the new energy generation resources and storage systems.

Project Financing

- AEI 2023 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Industry, Trade and Tourism
- PROJECT FILE NUMBER: AEI-010500-2023-174









Budget and Implementation Period

• Implementation Budget: 197.000,00 €

• ISFOC Budget: 55.766,00 €

• Implementation Period: 11 months













SUNRISE PV

"New generation of photovoltaic technologies for energy cost reduction through circularity strategies"

Project Goals

- Optimization of renewable energy production (in this case of photovoltaic origin) with a very significant reduction in the energy and economic cost of the technology, as well as with significant progress in the efficiency, flexibility and manageability of PV plants, within a framework of environmental, economic and social sustainability.
- Research on new materials and manufacturing processes to optimize production, on new operation and maintenance processes to maximize the energy production of PV plants and on new recovery and reuse processes for critical materials and components to increase their value.
- Development of new circular business models to make PV systems as profitable as possible in the economic terms.

Project Financing

- Granting aid for the "Science and Innovation Missions Program", 2022 call.
- PROJECT FILE NUMBER: MIG-20221002

Budget and Implementation Period

• Implementation Budget: 6.551.170,00 €

•ISFOC Budget: 1.007.444,00 €

• Implementation Period: 2022 - 2025





















INDAGA SOLAR

"Digital Innovation for the advanced management of large solar photovoltaic plants"

Project Goals

- Integrating Industry 4.0 technologies (Digital Twin, Cloud Computing, Artificial Intelligence, distributed IoT sensors, artificial vision, energy prediction algorithms, automated decision making, etc.) for the improvement of performance, quality and security in the operation and maintenance procedures.
- Boosting the digital transformation of the PV sector, while contributing to achieve the objectives of energy transition, sustainable development and climate neutrality.
- Demonstrating the benefits of integrating Industry 4.0 innovations and technologies to improve quality, performance and safety, as well as the environmental footprint resulting from the sector's operations.

Project Financing

- AEI 2022 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2022b-224







Budget and Implementation Period

• Implementation Budget: 323.831,00 €

• ISFOC Budget: 83.630,00 €

• Implementation Period: 9 months















CLEAR SOLAR

Project Goals

- Design and validation of a new sensor for photovoltaic installations to accurately monitor their maintenance status by measuring the amount of soiling accumulated on the surface of the modules. The collected data will be sent to the cloud in real time by using IoT communication network technology.
- Development of a predictive algorithm, based on artificial intelligence techniques, which will estimate the expected
 production of a self-consumption installation, and manufacturing a low-cost meteorological station prototype to collect
 and send to the central server the real weather information around the locations where the developed soiling monitoring
 sensors are deployed.
- Creation of a platform in the cloud to view and monitor the status of a solar installation, to collect estimated production information, and to connect agents in the photovoltaic solar energy sector (especially small producers and installers).

Project Financing

- AEI 2022 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2022b-180

GOBIERNO DE INDUSTRIA, COMERCIO Y TURISMO



Budget and Implementation Period

• Implementation Budget: 145.203,40 €

• ISFOC Budget: 59.962,00 €

• Implementation Period: 10 months













METAVERSO

"Predictive maintenance platform for virtual monitoring in the metaverse of photovoltaic installations"

Project Goals

- Development of a predictive maintenance solution, based on Artificial Intelligence techniques and virtual monitoring in the metaverse, for photovoltaic plants in a collaborative virtual environment as a control centre in the metaverse.
- Leveraging the capabilities of the new control centres in the metaverse, IoT sensors, AI systems, Big Data, etc... in order to obtain new solutions for photovoltaic installations that allow the optimization and automation of systems and error prediction.
- Obtaining an industrial-level solution that allows to reduce and optimize the costs per optimal maintenance action (predicted failure in a defined time), minimizing unplanned failure costs (corrective maintenance) as well as costs due to over-maintenance (preventive maintenance).

Project Financing

- AEI 2022 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2022b-174







Budget and Implementation Period

• Implementation Budget: 232.398,00 €

• ISFOC Budget: 52.252,00 €

• Implementation Period: 10 months















OPTIMA

"Optimization of PV technology for self-consumption in buildings"

Project Goals

- Design, prototyping and validation of a complete state-of-the-art PV system for self-consumption, distinguished by its high efficiency and adapted for its installation on large flat roofs, mainly commercial and industrial roofs that typically have high energy costs.
- Maximization of electricity generation by applying the latest advances in photovoltaic, mechanical, electronic and computational technologies, as well as their intelligent application in buildings.
- Obtaining a unique photovoltaic system on the market that will transfer the advantages of large photovoltaic plants installed in rural areas to urban photovoltaic self-consumption installations, making the most efficient use of the solar energy received. This solution is emerging as an optimal solution for Energy Communities.

Project Financing

- Granting aid for "Public-Private Partnership projects", 2021 call.
- PROJECT FILE NUMBER: CPP2021-008620

Budget and Implementation Period

• Implementation Budget: 769.742,41 €

• ISFOC Budget: 185.482,24 €

• Implementation Period: 2022 - 2025

GOBIERNO DE ESPAÑA

MINISTERIO DE CIENCIA E INNOVACIÓN















CECOM4PV

"CEramic and COmposites Materials for PhotoVoltaic devices"

Project Goals

- Development of new products and a disruptive technology from ceramic and composites-based products of traditional building envelopes, to be used in energy-efficient building envelopes such as roofing elements, tiles, etc., that will integrate the generation of electrical energy from PV elements.
- PV modules become a constructive component of the buildings (BIPV), on the way to achieving Nearly Zero Energy Buildings (nZEB) or even Positive Energy Neighborhoods (PEN).
- To develop a potential portfolio of BIPV products with high technical and aesthetic value, based on standard ceramic products used in building envelopes, as well as new trending products for the construction sector made of composites.

Project Financing

- Granting aid for "Public-Private Partnership projects", 2021 call.
- PROJECT FILE NUMBER: CPP2021-008637

Budget and Implementation Period

• Implementation Budget: 897.106,16 €

• ISFOC Budget: 155.583,72 €

• Implementation Period: 2022 - 2025



MINISTERIO DE CIENCIA E INNOVACIÓN







Participants





CENER







BUILT4ENERGY (B4E)

"Hybrid concentration systems for intelligent energy supply in positive energy buildings"

Project Goals

- Development of an energy solution for its integration in buildings that allows on-site generation of electricity and heat. In addition, it must have an intelligent management system to select the energy vector to generate according to the prediction of the building's energy demands.
- Development of an intelligent energy management system based on a hybrid solar electricity and/or heat generator integrated as a constructive element in glass facades of buildings, which also includes improvements in energy storage elements with phase change materials and developments in heat pumps for an efficient management of the thermal component of the generation system.

Project Financing

- Granting aid for "Public-Private Partnership projects", 2021 call.
- PROJECT FILE NUMBER: CPP2021-008721

Budget and Implementation Period

• Implementation Budget: 1.235.982,78 €

• ISFOC Budget: 204.821,80 €

• Implementation Period : 2022 - 2025

GOBIERNO DE ESPAÑA

MINISTERIO DE CIENCIA E INNOVACIÓN

















PreAirQuality

"Predictive System for Air Quality Management"

Project Goals

- Development of an intelligent system, with low implementation cost, to facilitate the management of air quality in a city, region or specific area.
- Development of a network of devices, maintenance-free and easy-to-install, to collect and transmit relevant air quality data for further analysis.
- Development of a software application to make easier the consultation of data related to air pollution at a given location, and its analysis with the different indicators to implement actions to improve its quality.
- Validation of the technology employed, the predictive models and behaviours defined during the development of the project.

Project Financing

- AEI 2021 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2021b-46

Budget and Implementation Period

• Implementation Budget: 190.780,00 €

• ISFOC Budget: 76.375,00 €

• Implementation Period: 9 months

















EMPLEASOLAR

"Collaborative Platform for the Virtualization of the Training and Promotion of Labor Insertion in the Photovoltaic Sector"

Project Goals

- Improve training quality and competitiveness in the PV sector through virtualization techniques and Industry 4.0 innovation.
- Promote quality employment and improve the availability of skilled personnel in the PV sector to foster economic, social and territorial cohesion through this innovative platform for collaboration and training.
- Boost the digital transformation of the PV sector, contributing to achieving the goals of energy transition, sustainable growth and climate neutrality.
- Demonstrate and evaluate the advantages of the Collaborative Platform (employment and training) in the PV sector and its economic viability.

Project Financing

- AEI 2021 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2021b-7







Budget and Implementation Period

• Implementation Budget: 213.227,00 €

• ISFOC Budget: 79.138,00 €

• Implementation Period: 10 months











COMETA

"Advanced Energy Communities"

Project Goals

- Development of a centralized, intelligent and advanced management system, hosted in the cloud, that facilitates the evolution of energy communities, taking as a reference the current legal framework and laying the technological foundations for their development in order to turn them into a key element to change the current energy system as well as to optimize the use of energy and minimize the return on investment of the installations.
- Development of a prototype node, located locally in the energy communities as part of the generation system, which
 will be the mediator between the platform and the devices located in these energy communities through a web
 application to make data accessible to users.
- Characterization and development of software packages to simulate the behaviour of different typologies of energy communities, both residential and industrial.

Project Financing

- AEI 2021 Grant Call Supporting Innovative Business Groupings
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2021b-68







Budget and Implementation Period

• Implementation Budget: 134.283,00 €

• ISFOC Budget: 59.802,00 €

• Implementation Period: 10 months











ADOMIF

"Digital Assistance for the Operation and Maintenance of Photovoltaic Installations"

Project Goals

- Increase the competitiveness of the photovoltaic sector, through the integration of Industry 4.0 innovative technologies to improve its quality, performance and safety with regard to the techniques, technologies and methodologies currently used in the operation and maintenance of photovoltaic plants.
- Analysis of photovoltaic technology and its suitability for the improvement of O&M processes in the photovoltaic sector.
- Improvement of the quality and reduction of O&M tasks times through the digitalization of procedures.
- Increase safety and reduction of workplace accidents in photovoltaic plants labours.

Project Financing

- Grants to Support Innovative Business Groups (AEI), corresponding to 2020 year
- FILE NUMBER : AEI-010500-2020-54

DE INDUSTRIA, COMERCIO

Budget and Implementation Period

Implementation Budget 202.032,00 €

• ISFOC Budget: 55.184,00 €

Implementation Period: 9 months













Autoconsumo 4.0

"Intelligent management system for energy flows designed for its integration in residential, commercial and industrial markets, also called distributed generation"

Project Goals

- Design of an intelligent management system for energy flows in self-consumption photovoltaic systems for residential, commercial and industrial markets, through the implementation of Big Data and Cloud Computing technologies.
- Development of a smart system for renewable energy management of photovoltaic generation to maximize the income from generation surpluses sales, minimizing the cost of energy consumed, using prediction algorithms for the energy generated and the prediction of the optimal behavior of the system.

• These algorithms are developed from the use of modern techniques of Machine Learning implemented in a server hosted in the cloud.

Project Financing

- Grants to Support Innovative Business Groups (AEI), corresponding to 2020 year
- FILE NUMBER: AEI-010500-2020-53

Budget and Implementation Period

• Implementation Budget : 144.116,00 €

• ISFOC Budget : 54.547,00 €

• Implementation Period : 9 months

Participants



MINISTERIO DE ECONOMÍA Y EMPRESA













OpenSIROCO

"Open Innovation Platform for Collaborative Robotic Production Systems 4.0"

Project Goals

- Search for robotic solutions and configurations based on Industry 4.0 technologies adapted to conventional productive sectors such as energy, agriculture, livestock, construction, mining, logistics and transport.
- Analysis of specific problems in the productive sectors of vine growing and photovoltaic installations.
- Experimental development of a management system of collaborative robotic missions directly applicated to both photovoltaic and wine sectors, which will allow to facilitate and automate the decision making.
- Generalization and standardization of the operation to address new problems and applications in other sectors through open innovation and collective intelligence.

Project Financing

- Grants Programme to foster R&D Regional Cooperation 2014-2020. Feder interconecta 2018
- Funded by CDTI
- PROJECT FILE NUMBER: ITC-20181090

Project Site

• Puertollano (Ciudad Real)

Budget and Implementation Period

• Implementation Budget: 2.236.395,00 €

• ISFOC Budget: 419.253,00 €

Implementation Period: 2018-2021

Participants















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CPV4H2

"Solar Hydrogen Production Pilot System with High Conversion Efficiency Through Concentration Photovoltaics"

Project Goals

- Development and construction of a hydrogen generation system based on water electrolysis using electricity generated by a high concentration photovoltaic system, which will allow to achieve higher STH (Sun To Hydrogen) efficiency values.
- Implementation of a mathematical model for the hydrogen production system based on water electrolysis by means of electricity coming from high photovoltaic concentration.
- Development of a control and monitoring system for the pilot project and validation of the models and technologies developed.

Project Financing

- Grants Programme to foster R&D Regional Cooperation 2014-2020. Feder interconecta 2018 call
- Funded by CDTI
- PROJECT FILE NUMBER ITC-20181066

Project Site

• Puertollano (Ciudad Real)

Budget and Implementation Period

• Implementation Budget: 1.285.284,00 €

• ISFOC Budget: 444.756,00 €

• Implementation Period: 2018-2021

Participants













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Desarrollo Regional (FEDER)
Una manera de hacer Europa







PowerTree

"Concentration Photovoltaics Technology for Urban Environments"

Project Goals

- Development of a concentration photovoltaic system for high-efficiency electricity generation to be integrated in urban and residential environments, with delicately aesthetics and functionalities (vertical garden, advertising monolith, etc.).
- Development of a software platform for the energy management and monitoring, capable of programming the residential loads and managing the accumulated energy in batteries according to the weather forecast and the electricity market prices, optimizing therefore the energy expenditure.
- The system also integrates an electric vehicle charger.

Project Financing

- Retos Colaboración Programme
- PROJECT File Number: RTC-2017-6064-3

Budget and Implementation Period

Implementation Budget: 727.704,34 €

• ISFOC Budget: 254.691,34 €

Implementation Period: 2018-2021

Participants





















Unión Europea

Fondo Europeo de Desarrollo Regional "Una manera de hacer Europa"

Drongeno "Solar Hydrogen for the Autonomy of Drones"



Project Goals

- Design and development of a drone with high load capacity and large autonomy using hydrogen fuel cells.
- Design and development of an autonomous system, compact and high efficiency, for the generation and accumulation of energy using photovoltaic modules.
- Development of an electrolyser for the generation of hydrogen with in-house technology.
- Comparative, technical-economic, study with commercial electrolysers.
- Development of an ultralight fuel cell with 3D printing techniques.
- Integration of the electric and hydrogen generation platform in a transportable trailer.

Project Financing

Retos Colaboración Programme

Project File Number: RTC-2017-6631-3

Participants





Budget and Implementation Period

Implementation Budget: 607.752,34 €

ISFOC Budget: 236.095,70 €

Implementation Period: 2018-2021











Collaboration:





BIPVBOOST

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

- Bring down the cost of building-integrated photovoltaic systems (BIPV), limiting their overcost with respect to traditional, non-photovoltaic, construction solutions and non-integrated photovoltaic modules.
- Development of construction systems and elements with architectural elements (pavements, façaces, handrails, etc.) integrating photovoltaic technology.
- Effective implementation of short- and medium-term roadmaps to reduce costs by addressing the entire BIPV value chain.
- Demonstration of the contribution of the technology towards the mass implementation of near Zero Energy Buildings (nZEB).

Project Financing

- European Union's HORIZON2020 research and **Innovation Programme**
- Grant Agreement: 817991

Participants













Budget and Implementation Period

• Implementation Budget: 11.443.289,00€

202.092,00€ ISFOC Budget:

• Implementation Period: 4 years



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 817991



























NODUST PV

"Development of a Predictive Cleaning System and an Anti-soiling System"

Project Goals

- Modification of the glass and lens surfaces used in photovoltaic technologies so as to both increase their hydrophobic and oleophobic properties and repel dirtiness.
- Increase the wettability and the adhesion of the glass using atmospheric plasma, applying homogeneously coatings with hydrophobic and oleophobic functionalities on glasses and lenses, obtaining contact angles higher than 120° in water.
- Validation of the durability required to the coatings through accelerated aging tests such as light, temperature and humidity cycles both in indoor and outdoor laboratories.

Project Financing

- AEI 2017 Grant Call Supporting Innovate Business Grouping
- Funds from the Ministry of Economy, Industry and Competitiveness
- PROJECT FILE NUMBER: AEI-010500-2017-245

Budget and Implementation Period

• Implementation Budget: 142.851,00 €

• ISFOC Budget: 58.471,00 €

Implementation Period: 8 months













DRONES4CIP

"Drones for the Protection of Critical Infrastructure"

Project Goals

- Development of an automated system of autonomous drones fleets for the protection of critical infrastructures (commercial ports, borders, railways, electrical grids, etc.).
- Development of an automated drone recharging system, hybridizing solar photovoltaic and wind energy. The system will be integrated into a landing platform and drone shelter.
- The system, in an automatic way, will analyse and locate incidences and structural damage, with techniques of artificial vision and intelligence.

Project Financing

- FEDER-INNTERCONECTA 2016 Call
- R&D Programme for the benefit of companies
- PROJECT FILE NUMBER: 00099150/ ITC-20161257

GOBIERNO MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD



Budget and Implementation Period

• Implementation Budget: 1.380.901,00 €

• ISFOC Budget : 282.740,00 €

• Implementation Period : 2017-2020













THESEUS

"Development of low concentration photovoltaic systems with high efficiency solar cells and single axis trackers"

Project Goals

- Developing new single-axis tracking systems to minimize the cost.
- Developing high efficiency cells optimized to work in low concentration, taking into account technologies based in monocrystalline silicon and analyzing the potential of III-V technology.
- Defining and validating a design for the low concentration receiver.
- Developing new materials for the sunlight selective filtering in order to remove the solar spectrum that is not used with the aim of reducing significantly the operation temperature, thereby increasing the efficiency.
- Designing new heat dissipation systems to maximize the system thermal performance and reduce both the production and material costs.

Project Financing

- National R&D Program aimed at the Challenges of Society, 2014.
- PROJECT FILE NUMBER: RTC-2014-2304-3

Budget and Implementation Period

Implementation Budget: 1.245.049,46 €

• ISFOC Budget: 205.758,50 €

Implementation Period: 2014-2017

Participants

ABENGOA SOLAR















Unión Europea

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MASDAR "The World's Most Sustainable Eco-City"

Project Goals

- Selection and installation of 690kW of different CPV technologies from different manufacturers and their evaluation under extreme weather conditions, as in Abu Dhabi.
- Feasibility study focused on issues such as the effect of dust, ambient temperature, and mist on the energy production, analysing the reliability and availability of the different technologies.
- Promote the potential of CPV technology, fostering the exports and internationalization capacity of Spanish companies.

Project Financing

- Viability Study Funds (FEV) granted by the Spanish government to United Arab Emirates.
- Funds provided by the Spanish Development Aid Fund (FAD).

Budget and Implementation Period

• Implementation Budget: 5.000.000 €

• Implementation Period: 2011-2019

