# Press Release

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## New Project Launched «One intelligent cloud for PV Assets Diagnosis and Maintenance»

A new partnership that brings together three Mediterranean countries, Cyprus, Spain and Turkey has been launched for the implementation of a new project entitled **"One intelligent cloud for PV Assets Diagnosis and Maintenance (Acronym: 1C4PV)".** The project is supported under the umbrella of SOLAR-ERA.NET Cofund by the Centre for the Development of Industrial Technology (CDTI) in Spain, the Scientific and Technological Research Council of Turkey (TUBITAK) and the Research and Innovation Foundation in Cyprus. SOLAR-ERA.NET is supported by the European Commission within the EU Framework Programme for Research and Innovation HORIZON 2020 (Cofund ERA-NET Action, N°691664).

The project is coordinated by ISOTROL (a Spanish company specialized in information systems for monitoring and control of renewables) and the partners are the FOSS Research Centre for Sustainable Energy of the University of Cyprus and TEGNATIA EPC SOLUTIONS (an O&M Turkish company for solar plants). The total project funding secured is €582.662,00 and the budget for Cyprus is €172.560,00.

The 1C4PV project has been initiated to face the main challenges of the PV industry and to provide an integrated platform for cost reduction and revenue optimization for PV plants based on advanced and automated functions for data analysis, fault detection, diagnosis and operations and maintenance (O&M) recommendations. The integrated platform will be demonstrated in real operating environment and it is expected to manage the complete process of acquisition and standardization of plant data on a cloud platform, validate and clean the information received, identify failures and performance problems, generate recommendations for maintenance and prioritize actions and follow-up.

The outcomes of the project are expected to be significant. Firstly, by developing the system prototype, O&M costs will decrease while PV plant performance will improve. As a result, the levelized cost of electricity (LCoE) from PV systems will go down thus rendering the technology more competitive and assisting in its enhanced penetration in the global electricity mix. Ultimately, through increased PV penetration, 1C4PV will assist in climate change mitigation, reduction of CO2 emissions and eventually improved quality of life.

The official launch date of the research project was the 4$^{th}$ of November 2019 and the project is scheduled to run for 24 months.

Πανεπιστήμιο Κύπρου

For more information, you may contact Professor George E. Georghiou, Director of FOSS Research Centre for Sustainable Energy, on +357 22 892272, email: geg@ucy.ac.cy.

**About SOLAR-ERA.NET Cofund 2 (Solar Cofund 2)**

The SOLAR-ERA.NET Cofund 2 Additional Joint Call is carried out by national/regional research and technology development (RTD) and innovation programmes and national/regional funding agencies in the field of solar electricity generation, i.e. photovoltaics (PV) and concentrating solar power (CSP)/solar thermal electricity (STE). The Joint Call is commonly carried out by the following countries and regions: Austria, Belgium-Flanders, Cyprus, Germany and North-Rhine-Westphalia, Greece, Israel, The Netherlands, Spain, Sweden, Switzerland and Turkey. The total budget provided by national and regional funding agencies is around €9 million and the SOLAR-ERA.NET Cofund 2 Action is supported by funding from the European Union's HORIZON 2020 Research and Innovation Programme (Grant Agreement N° 786483).

FOSS Research Centre for Sustainable Energy

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