# WHAT IS SERENDI-PV?

SERENDI-PV is a four-year, 12 million Euro project funded by the European Commission working to advance the energy transition in Europe through:

- Improving the lifetime, reliability, performance & profitability of PV generation
- Increasing the penetration of PV generation in the European grid with improved stability.

Project innovations will be developed with specific focus on new and innovative PV technologies like bifacial, BIPV and floating PV systems.

#SERENDIPV

# ADVANCE BEYOND THE STATE OF THE ART

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#SERENDIPV

SERENDIPV

Smooth, Reliable and Dispatchable Integration of PV in EU Grids

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n. 953016.

## PROFITABLE

- Easy grid integration
- PV Energy Forecasting models
- Innovative PV implementations

## RELIABLE

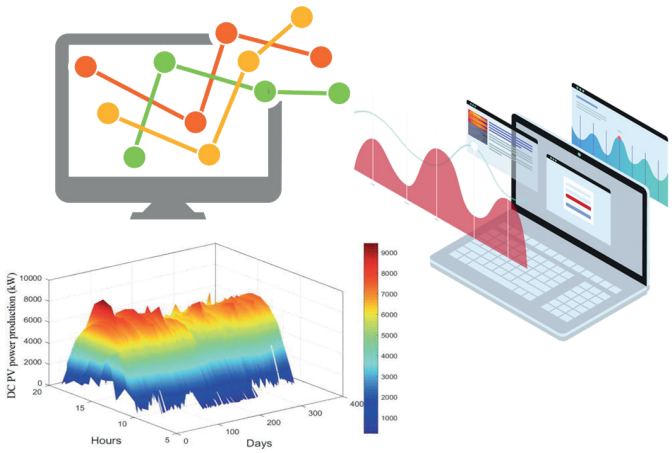
- Failure detection with drone imaging
- Diagnosis toolboxes
- New fault detection hardware

## PREDICTIVE

- Digital twins
- Artificial Intelligent algorithms
- State of the art PV data analytics

## PARTNERS

tecnalia, ceatech, LUT University, Fraunhofer, Ingeteam, cecasa, CNR, Vakuo Entrepreneurs by nature, QPV, Cythelia energy, LuciSUN, cobra, mylight systems, next, Energie Gussing, THU Technische Hochschule Ulm University of Applied Sciences, SOLARGIS, BECQUEREL INSTITUTE, WIP RENEWABLE ENERGIES




## INNOVATIONS

SERENDI-PV will develop innovative, advanced and automated functions using data based analytics to monitor and diagnosis faults at utility-large, medium-size and small-residential scale PV plants.

With advanced algorithms, PV energy production could be predicted earlier than it is possible today. The integration of PV depends on a stable flow of energy. With newly developed models, solar energy production is forecasted with more precision and further ahead of time.