



SMART APP

We provide a powerful and easy-to-use web application to monitor and forecast the PV power for small to large photovoltaic power plants.

Smart iPV Dashboard is a cloud application that integrates weather data from more than 10 weather sources and forecast the PV power with Machine Learning algorithms.



CONTACT US

Simona Oprea

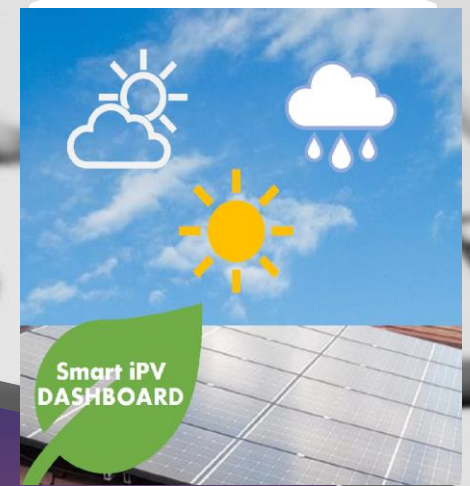
Phone: 0752294422

Email: simona.oprea@csie.ase.ro

Adela Bara

Email: bara.adela@ie.ase.ro

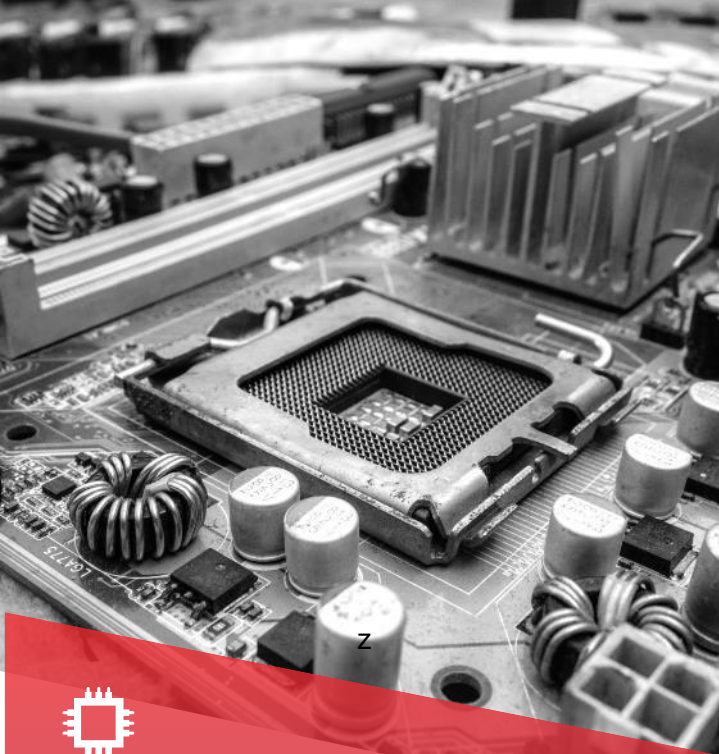
<https://pv-optim.ase.ro/>



SMART IPV DASHBOARD

Monitor & Forecast
Industrial PV power
plants

<https://pv-optim.ase.ro/>



PV MONITORING

- Collect and process data from smart meters, inverters and IBD.
- Monitor PV generation to detect possible power loss, inverter, and grid connection issues.

KPI analytics

Yield, Energy Performance Index (EPI), Power Performance Index (PPI), Performance Ratio (PR), Partial Power Loss Indicator (PPLI), Partial Energy Loss Indicator (PELI)



PV FORECAST

Powered by Artificial Intelligence

- Combine multiple weather sources.
- Provide 15-minute forecast for 7 days.
- Compare the PV generation with PV forecast using a confidence interval.
- Multiple forecast scenarios based on weather probability.
- View tabular data and export in various formats for different time intervals.



WEATHER

HISTORICAL & FORECAST

- Collect and integrate more than 10 weather sources related to the location of the PV power plant.
- Weather monitoring and forecast for different time intervals and weather stations.

