

Renewable Energy Resources

PV Power Assessment Project – 2020/21

Project Question:

What is the bidding price (€/MWh) you recommend in a solar auction?

Given data:

Excel file containing: 8760 hourly Global Horizontal Irradiance (W/m²); 8760 hourly air temperature (°C); rated capacity of the PV park (MW).

Working groups should research on required data that is not supplied. Appropriate references that support the missing data estimates are to be given.

Additional required results:

Besides other results that the working groups find relevant, the report should include a preliminary technical assessment of the project: Selected PV modules peak-power and datasheet; Number of modules and area covered by the installation; An estimate for the annual energy produced by the PV park; Utilization factor and Capacity factor.

Deliverable:

Report (10 pages typically) containing the required results, its justification and a comment on the results obtained.

Delivery date and Discussion:

Report: December 2nd, 2020.

Discussion: Class of December 16th, 2020.

Working Groups composition:

The working groups are composed of 3 students, at maximum. No single-student groups are allowed.