

Does solar PV need a technical and economic assessment?

The use of solar PV requires a technical and economic assessment before installation to check its feasibility and economic sustainability. There are many research papers present in recent times discussing technical, economic, and environmental aspects of solar PV.

What are the environmental indicators for solar PV systems?

Potential climate change is the most studied environmental indicator in LCA of PV systems in the literature. The total emissions for PV systems installed in Europe have been estimated at 38-88 g CO₂-eq kWh⁻¹, according to previous studies [38,39,40].

Does solar PV have an environmental impact?

Although extensive research has been carried out on the environmental impact of PV, but very few studies exist as a review that covers the effect during the whole PV lifetime cycle. Accordingly, this review addresses comprehensively all the key environmental impacts associated with solar PV power generation.

What data is required for a complete analysis of a PV power plant?

The data required for a complete analysis of the PV power plant concerns the raw materials used, the energy consumed, and the emissions generated at each stage of the life cycle studied. This study was based on secondary data, i.e., generic or theoretical data from commercial databases, various study reports, or other published sources.

Do PV systems have a life cycle assessment?

Numerous studies on the life cycle assessment (LCA) of PV systems have been carried out in the literature [7, 8, 9, 10]. These studies have mainly focused on small (1-100 kWp) and medium-sized (100 kWp-1 MWp) stand-alone PV installations.

How will a 5 MW solar PV power plant affect vegetation?

The vegetation in the proposed area for the construction of a 5 MW Solar PV Power Plant is sparsely distributed with a few forest protected trees. The impact on vegetation in the area can be rated as low due to the sporadic vegetation distribution.

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