

How to select a solar power plant site?

Figure 1. Solar power plant site selection framework. Step 2: Collect and evaluate relevant data for each site alternative in accordance with the site selection method. Step 3: Determine the optimal site using the CBA model. This approach would improve the precision and objectivity of the site selection process's outcome.

Why is site selection important for solar PV power plants?

Site selection for the utility-scale photovoltaic (PV) solar farm is a critical issue due to its direct impact on the power performance, economic, environmental, social aspects, and existing as well as future infrastructures. In this chapter, we conduct a literature review on site selection of solar PV power plants.

Can a site selection criteria be used for solar power plants?

It can be applied to any site selection problem, ranging from renewable energy sources to agricultural area. As a future study, this approach can be developed considering more criteria in different applications in order not to ignore any criterion for site selection of the solar power plants installation.

How is a solar energy power plant potential site selection map made?

Firstly, a solar energy power plant potential site selection map is made using a GIS program along with considering ecological risks and ecological criteria.

Does proximity to populated areas affect solar PV power plant site selection?

Proximity to populated areas is considered widely in the literature as a determining factor for the site selection problem for solar PV power plant (Halder et al. 2021). When the solar PV power plant is near populated areas, the energy transmission cost is reduced; however, this may adversely affect the environment.

What factors should be considered for solar plant site selection?

Climatic factors should be considered for solar plant site selection. Climatic factors include temperature, precipitation humidity, and sunshine hours, as these factors affect the radiation received. This research focused on one main criterion, namely solar irradiance, to select sites with adequate solar radiation for the power plant [33]. 2.4.

The purposes of this study were to develop a GIS-AHP-based model to perform spatial analysis to locate suitable sites for solar energy projects and to find optimal sites for solar power plant establishment, starting from the ...

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