

Map of the most suitable areas for solar power generation

How to select the optimum sites for solar energy?

To select the optimum sites for solar energy it is necessary to determine effective spatial criteria with consideration for such things as the viability of solar power plants in the area. Expert opinions (Table 3) and previous research studies were used to extract pertinent information for this research.

Which countries have a good solar potential?

Bolivia, Peru and Mexico also score in the global top 30, while the United States ranks 90th but has favourable solar potential pockets in the Southwest that are comparable to other high-scoring areas elsewhere.

How much solar energy can a region produce?

The rest of the region is further classified into 'moderate' and 'restricted' areas, which account for 46.42% and 25.88%, respectively. The most suitable area for potential solar energy, yields approximately 1905 Kwh/Kwp in terms of PVOUT. The proposed framework also has the potential to be applied to other regions nationally and internationally.

Where are the most suitable areas for solar radiation?

In fact, the results showed that the most suitable areas were located in the Southern parts of Europe (Mediterranean regions) where the highest levels of solar radiation occur (Italy, Portugal, France, Spain, Greece, Malta and Cyprus).

Where should solar plants be located?

The result showed that 'the most suitable' and 'suitable' areas for the establishment of solar plants are in the south and southwest of the region, representing about 17.53% of the study area. The 'unsuitable' areas account for about 10.17% of the total study area, which is mainly concentrated in the northern part.

Which countries will dominate global solar production?

Egypt, Botswana, Morocco and Sudan also feature in the global PVOUT top 20, thanks to similar solar radiation totals and land availability, suggesting African nations could come to dominate global solar production rankings if all the region's ambitious renewable energy development plans take root.

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