Solar power generation duration in different regions

What is the solar resource potential report based on?
The report is based on data provided by the World Bank through the Global Solar Atlas,a free,web-based tool providing the latest data on solar resource potential globally. It is accompanied by country factsheets,downloadable from the Global Solar Atlas,that provide a summary of the resource potential and how it compares to other countries.

What are the timescales for solar power aggregation?
Timescales (durations) considered are mainly minutes 16,19,20,21,hours 14,17,18,26,months 23 and years 15,24,25. Furthermore,the geographical scale for solar power aggregation varies with plant/site 16,19,20,21,27,to state 15,18,23,24,26 and to sub-region 14,25 but with a limited number of PV sites/stations.

Does aggregation affect the intermittency of solar power generation?
The aim of this article is to address the fundamental scientific question on how the intermittency of solar power generation is affected by aggregation, which is of great interest in the wider power and energy community and would have profound impacts on the solar energy integration into the energy supply and Net-Zero Implementation.

Is solar energy a future energy resource?
The utilization of renewable energy as a future energy resource is drawing significant attention worldwide. The contribution of solar energy (including concentrating solar power (CSP) and solar photovoltaic (PV) power) to global electricity production, as one form of renewable energy sources, is generally still low, at 3.6%.

What is intermittency of solar energy?
It is well recognized internationally that the intermittency of solar energy is a fundamental technical/economic barrierwhich limits the penetration level of solar power in the energy supply.

How a solar power plant can be invested in a specific region?
Before investment a solar power plant in a specified region, a techno-economic analyse is performed for that power plant by using several meteorological data like solar irradiance and ambient temperature. However, this analyses generally lacks evaluation on effects of climatic and geographical conditions.

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