

South Korea's communication base station wind and solar complementarity

How much solar radiation does South Korea receive a day?

The following discussion is based on an average daily solar radiation for South Korea of 4.0 kWh/m^2 and a wind speed of 4.0 m/s as a case study. However, this discussion can be extended to include other cases of solar radiation, with a slight difference in the IC, O&M, and salvage costs.

Which region in South Korea has the lowest solar radiation?

In contrast, in the northwestern region around Seoul, solar radiation is lowered to approximately 4.7 kWh/m^2 /day, and Gochang, located at the western coast of South Korea, shows the lowest solar radiation of 4.48 kWh/m^2 /day.

What is the average wind speed in South Korea?

The average wind speed in the most of the interior of South Korea does not exceed 4 m/s . However, the wind speed above 7.5 m/s can be observed in the mountainous regions nearby east coast, the southeastern coast, and Jeju Island which is located at the bottom of the peninsula.

What are the data preprocessing and complementarity analyses of PV-WP-hp?

Data preprocessing Variability and complementarity analyses of PV-WP-HP are based on the hourly meteorological data of a certain area in North China in 2014, which covers the series of irradiation intensity, temperature, wind speed, wind direction, and runoff.

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