



# North Korea's solar container communication station wind and solar hybrid backup power supply





## Overview

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Does North Korea have a solar energy potential?

Evaluation of solar energy potential in the nine administrative provinces and North Korea as a whole for three years (2013, 2014, and 2015). North Korea's solar energy potential is reasonably large, and solar power plants may still be feasible in the region.

Is North Korea a good source of energy?

Owing to its high latitude, during the winter season the country receives little solar radiation; however, this remains a more valuable energy source than hydropower, as North Korea's small- and medium-sized hydropower plants cannot operate when rivers are frozen, a relatively common condition given the country's geography and terrain. Fig. 1.

Does North Korea have more solar power than South Korea?

As expected, North Korea, with its highly mountainous terrain, was found to have greater potential wind energy resources, compared to South Korea. North Korea's solar potential was slightly lower than South Korea's because of its higher latitude and somewhat cloudier conditions during certain times of the year.

Why is site analysis important for photovoltaic installations in North Korea?

Moreover, reflecting the geographical characteristics of North Korea, the spatial standard deviation (in parentheses in Table 4) is greater in North Korea than in South Korea, and, therefore, site analysis for photovoltaic (PV) installations will be more important for developing renewable energy resources in North Korea.



## North Korea's solar container communication station wind and solar



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Although the region's mountainous terrain may be an obstacle for future development of renewable energy infrastructure, these initial annual mean solar and wind ...



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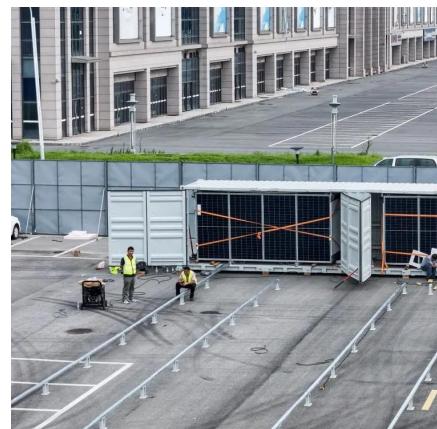
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