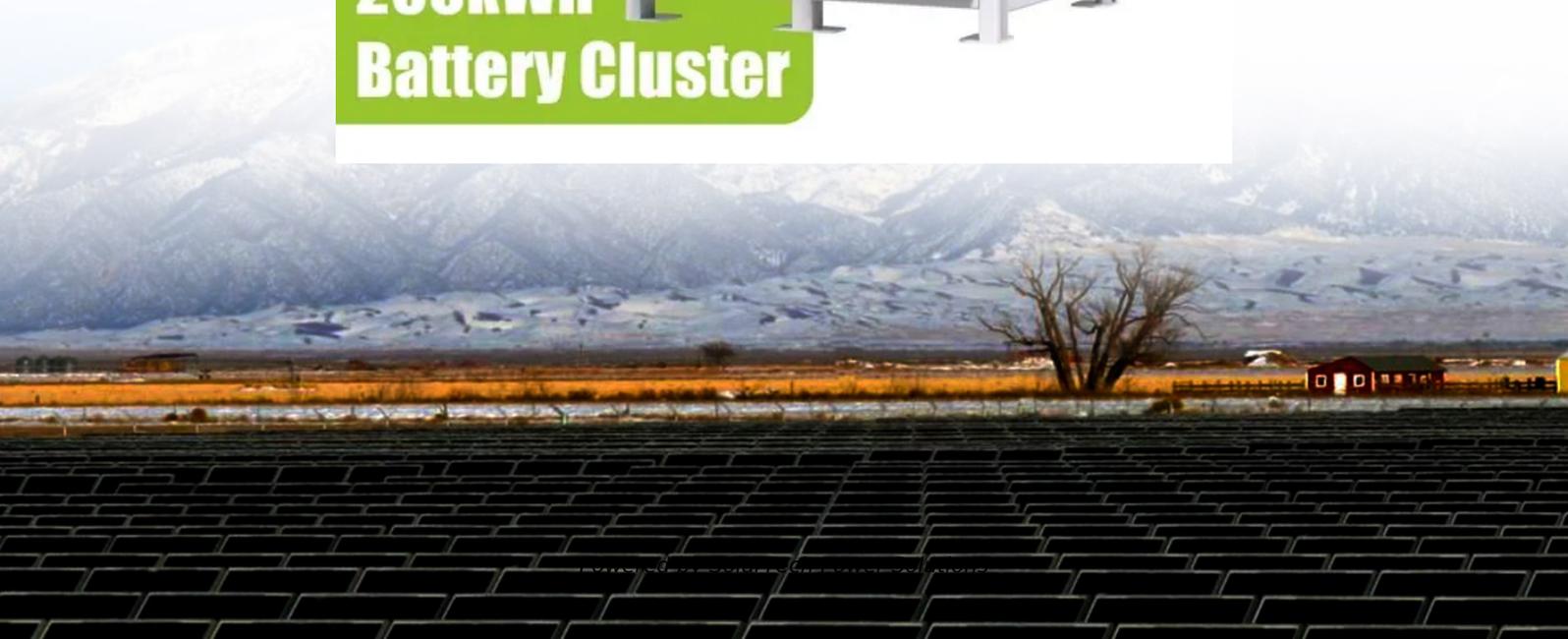


SolarTech Power Solutions

Quality of wind turbine cabinets for Chilean communication base stations



**200kWh
Battery Cluster**



Overview

Can wind energy be used to power mobile phone base stations?

Worldwide thousands of base stations provide relaying mobile phone signals. Every off-grid base station has a diesel generator up to 4 kW to provide electricity for the electronic equipment involved. The presentation will give attention to the requirements on using windenergy as an energy source for powering mobile phone base stations.

How many wind turbines are there in Chile?

Since 2006, wind capacity has been steeply increasing, reaching a total of 894.45 MW installed in July 2015, as it is shown in Table 1. This makes Chile as the second largest market for wind turbine generators (WTGs) in South America and the Caribbean, behind the local giant, Brazil. Table 1. Operating wind farms: technology, capacity and location.

How much energy does a wind farm produce in Chile?

Energy production and potential: Capacity factors were estimated for all actual and potential wind farms in Chile, their values varied from 12% in Punta Colorada up to 45.6% in Taltal and San Pedro. With an average of 33.9%, a median of 34.5% and with only 5% of the projects showing very low energy production (below 20%).

What is the wind potential in Chile?

In Chile, geographical characteristics, such as the long coastline, valleys and large mountain range, make the conditions for the movement of air masses, creating multiple sites with significant wind potential , estimated recently at nearly 40,000 MW potential available .

Will the new Chilean electricity law affect the profitability of wind projects?

According the new Chilean electricity law those costs are going to be passed onto the consumers, thus not affecting the profitability of wind projects (not

directly). Moreover, the Chilean system has some particularities that allow for the provision of reserves at lower costs.

Can a wind energy reserve be quantified?

However, those reserve requirements cannot be quantified here, since they do not depend only on the variability of wind energy generation, but also on the variability of other sources of supply (such as solar farms, run of the river hydro plants, etc.), variability of demand, power system operational practices and market mechanisms, etc.

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