

The location of wind and solar hybrid solar container communication station





Overview

Which countries are developing hybrid wind-solar plants?

The United States, China, and the United Kingdom also register initiatives to develop hybrid wind-solar plants. In the Brazilian electricity sector, the generator and the Independent System Operator celebrate a contract to allow connecting the power plant to the transmission system.

Can an existing wind power plant be hybridized to deploy an ahu?

Considering the strategy of hybridizing an existing power plant to deploy an AHU, the following methodology proposes an approach to determine the additional nominal capacity of solar power to be associated with an existing wind power plant without revising the value of the previously contracted ATSU, optimizing the usage contract.

Can a hybrid wind-solar plant make a profit?

Veras et al.) have investigated the financial aspects concerning the transmission contracts from hybrid wind-solar plants in Brazil, showing that even if there is no complementarity between sources, it is possible to take advantage of regulatory aspects and different tariffs for wind and solar power to achieve profits.

What is a hybrid power plant?

Finally, Sect. 5 presents the study's conclusions. WindEurope defines a Hybrid Power Plant (HPP) as a unique facility that harnesses electricity from two or more generation technologies, potentially including an energy storage system. Each technology is linked to a single Point of Common Coupling (PCC) connected to the electrical grid.



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