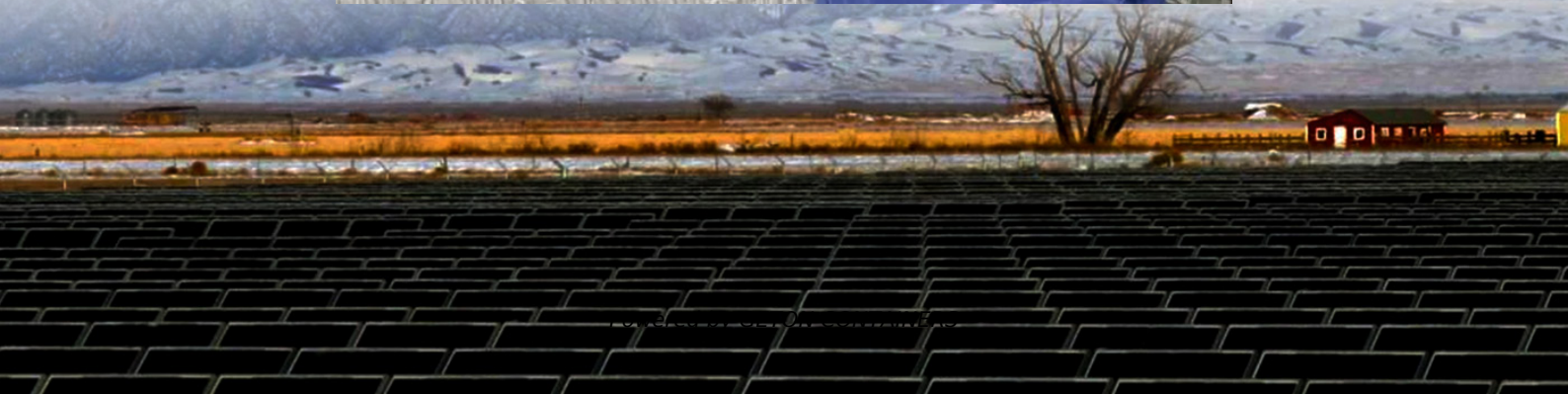


Wind-solar complementary contract for N Djamena solar container communication station





Overview

What is complementary operation of wind power PV power and hydropower?

Fig. 8 presents an example of the complementary operation of wind power, PV power and hydropower on a specific scenario during March 3, 2016. It is shown that with the regulation ability of the reservoir and hydro units, the hydropower station could adjust its output flexibly when the wind and PV power fluctuated.

How can a contract decomposition scheme reduce the power curtailment rate?

Under the optimal contract decomposition scheme, the volume of energy of decomposed BCs during each hour could be adaptively adjusted according to the forecasted wind and PV power output, hence the power curtailment rate of wind and PV power could be reduced. Fig. 9.

Can synergetic optimization increase profits for a wind-solar-hydro complementary system (wshcs)?

In a deregulated market, synergetic optimization of day-ahead (DA) market bids and the decomposition of daily physical bilateral contracts (BCs) can increase profits for a wind-solar-hydro complementary system (WSHCS) by coordinating the spot market and the forward market.



Wind-solar complementary contract for N Djamena solar container



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