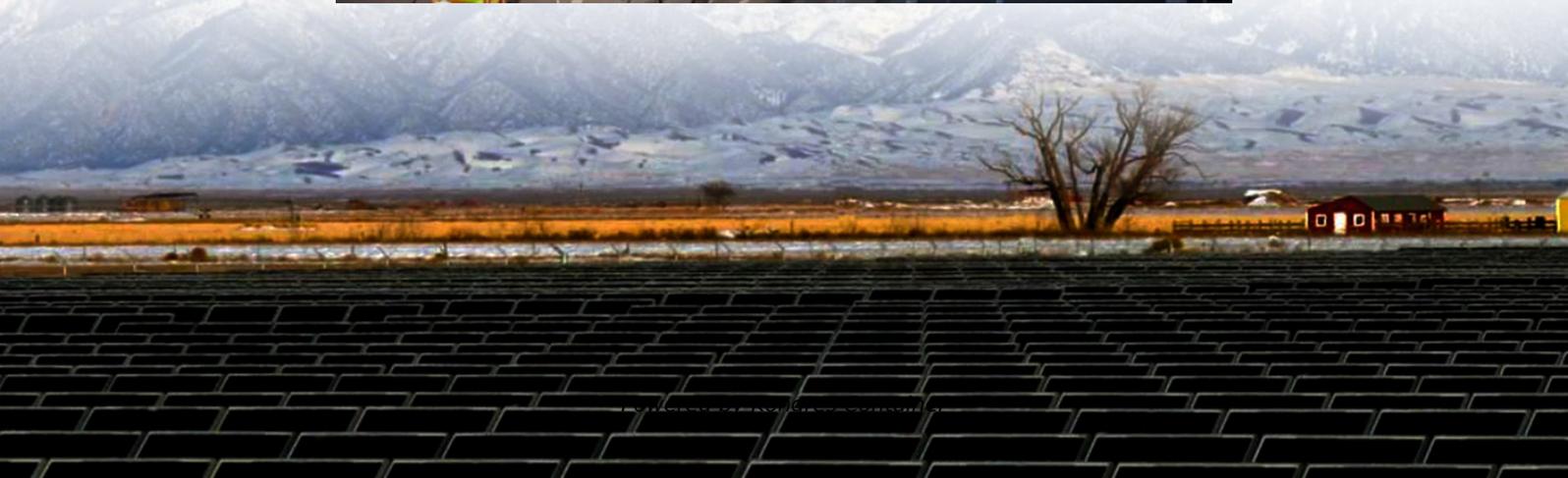
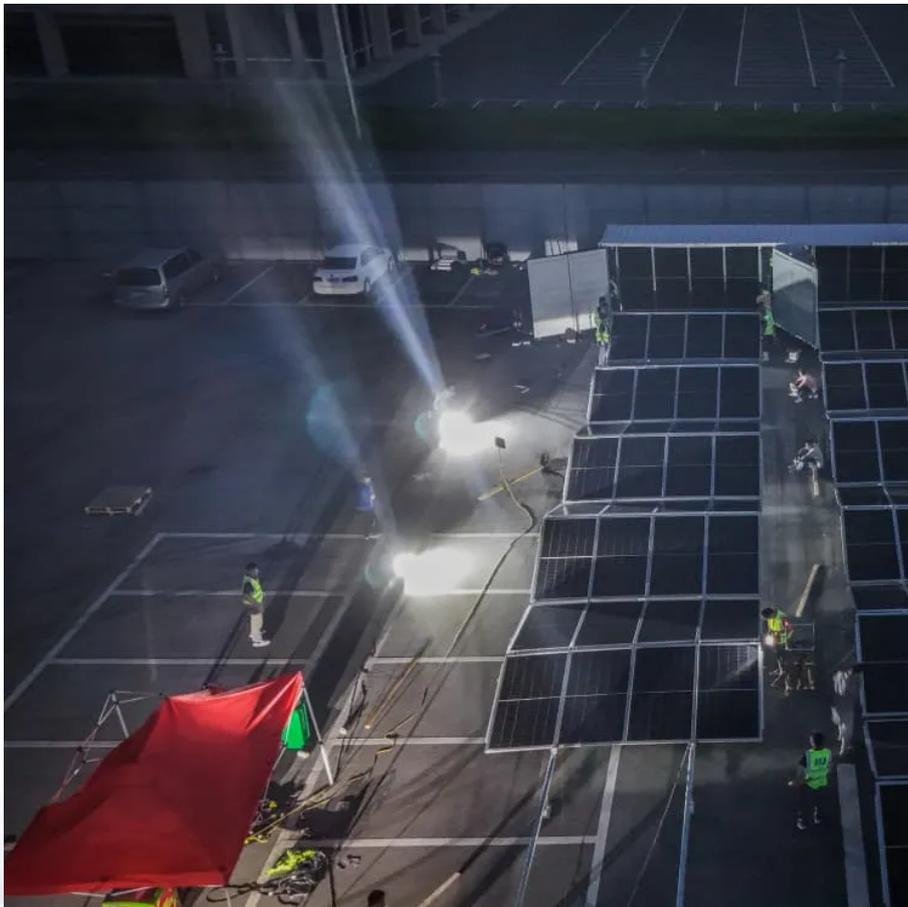


## Kongres Container

# Turkmenistan BESS telecommunications energy storage project bidding



## Overview

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What does Bess stand for?

Provides federal agencies with a standard set of tasks, questions, and reference points to assist in the early stages of battery energy storage systems (BESS) project development. Federal Energy Management Program.

What is the Bess bidding/offering method?

The BESS bidding/offering method can be described as follows: The profit of BESS  $s$  connected to bus  $i$  for active and reactive power exchange is indicated by the objective function of profits,  $i$  as given in Eq. (59). It consists of four chunks: the total costs of exchange active power in DAM and RTM as well as exchange reactive power in DAM and RTM.

Does Bess sell reactive power in RTM?

As shown in Fig. 10, BESS#7 sells reactive power at all hours in the RTM. The BESS's active/reactive power dependence in the trapezoidal model enables BESS to sell a great deal of reactive power in RTM. BESS can supply nearly 10 MVAR of reactive power by consuming a small amount of energy.

How much power does Bess sell?

It is displayed in Fig. 14, at  $t = 4$ , BESS#15 sells 90 % of active power in the DAM and 10 % in the RTM; at  $t = 14$ , it sells 48 % of active power in the DAM and 52 % in the RTM, and at  $t = 22$ , it sells 62 % of active power in the DAM and 38 % in the RTM.

Does bominh solve the Bess bidding/offering model?

Moreover, the BOMINH solver is implemented to solve the robust BESS bidding/offering model. In this paper, it is assumed that the reactive power cost of BESS is paid based on the average reactive power price of DAM as indicated in Eq. (73).

How much reactive power does Bess supply?

BESS can supply nearly 10 MVar of reactive power by consuming a small amount of energy. Fig. 11 plots the SOC of BESS#7 in different case studies. In most periods during the next day, due to the highest price uncertainty and the owner's risk aversion policy, case study 1 has the highest SOC.

## Turkmenistan BESS telecommunications energy storage project bid

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