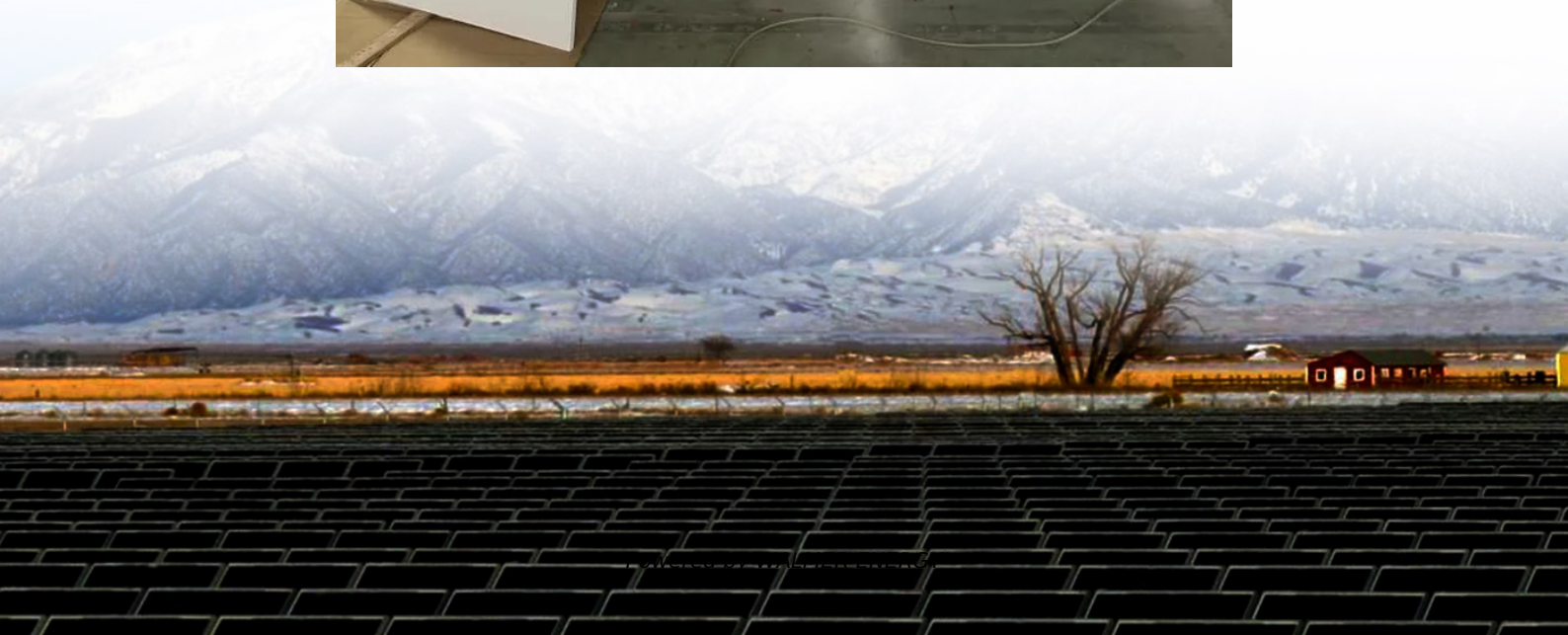


Drum wind power generation system





Overview

What is the output power of a wind power generation system?

The output powers and generator speeds of the two individual power generation systems are shown in Fig. 15. The output power of the individual wave power generation system fluctuated from 8.12 to 11.93 kW and that of the individual wind power generation system remained at approximately 10.00 kW.

What is a wind-wave hybrid power generation system?

The proposed wind-wave hybrid power generation system is composed of four parts: wave energy harvesting, wind energy harvesting, energy coupling, and control. The wind energy harvesting part adopts a horizontal-axis wind energy converter.

What are the three parts of a wind power generation system?

The simulation model of the individual wind power generation system consists of three parts: the hydraulic transmission model, wind speed model, and wind turbine power model. On the basis of the numerical models presented in Section 2, the hydraulic transmission model was established in AMESim, as shown in Fig. 9.

What is a wind-wave hybrid system with hydraulic transmission?

A novel wind-wave hybrid system with hydraulic transmission is proposed. The co-simulation of AMESim and MATLAB/Simulink is used. This system exhibits a good complementary performance for wind and wave energy. The mutual compensation of offshore wind energy and wave energy provides a cost-effective solution to offshore power supply.



Drum wind power generation system

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