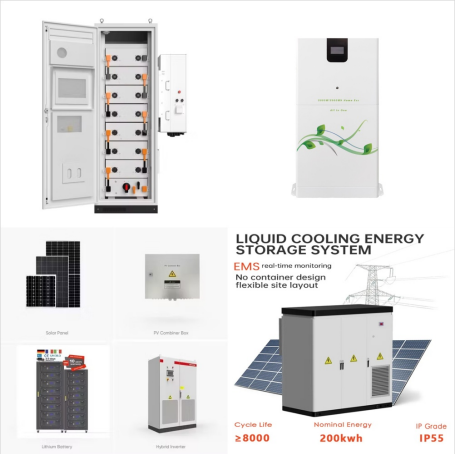


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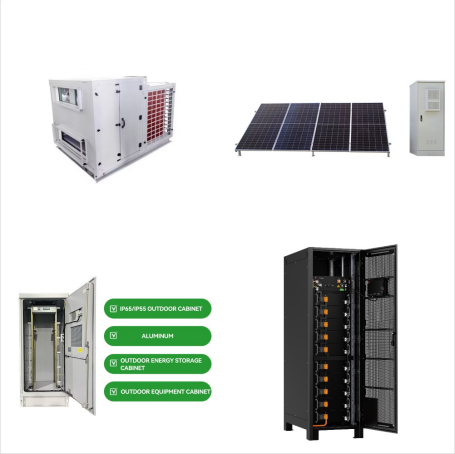


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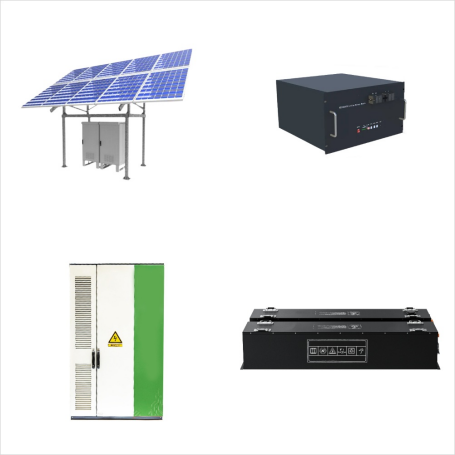

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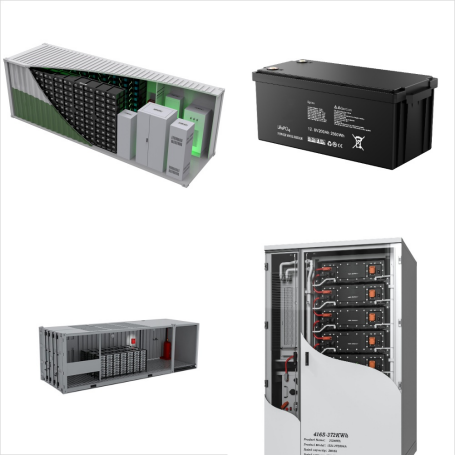

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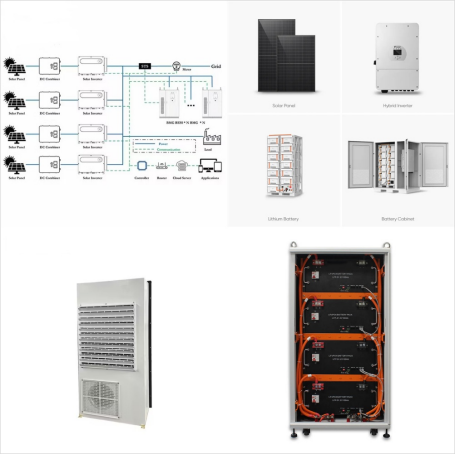

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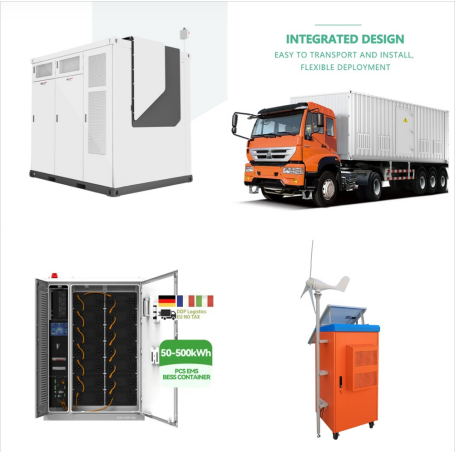


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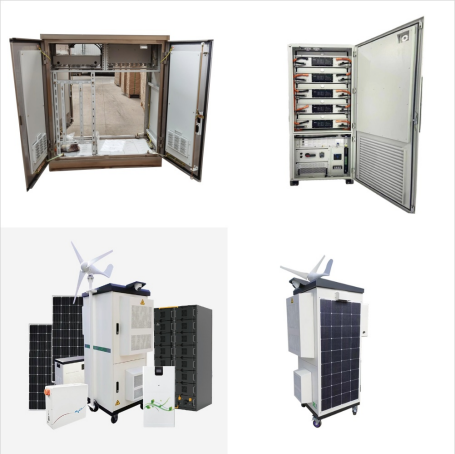

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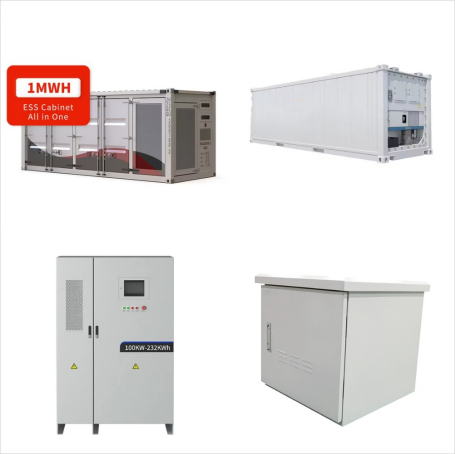


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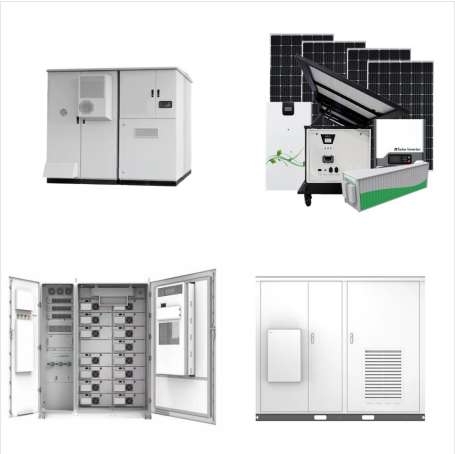
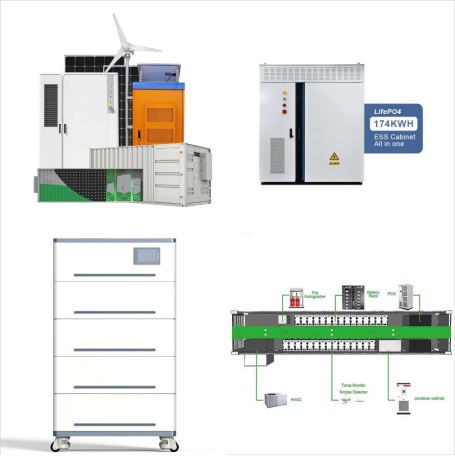
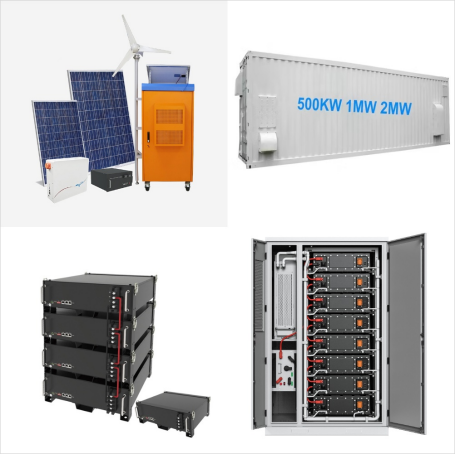


Load frequency control, PF versus QV control, Modelling of speed governing system, Division of power system into control areas, Single area control and two area control. BOOKS [1]. John J Grainger, W. D. Stevenson, "Power System Analysis", TMH Publication [2]. P. Kundur, "Power System Stability and Control", TMH Publication [3]. C. L.




Loada??frequency control (LFC) is of importance in electric power system design and operation. The objective of the LFC in an interconnected power system is to maintain the frequency of each area within limits and to keep tie-line power flows within some pre-specified tolerances by adjusting the MW outputs of the generators so as to accommodate fluctuating a?|

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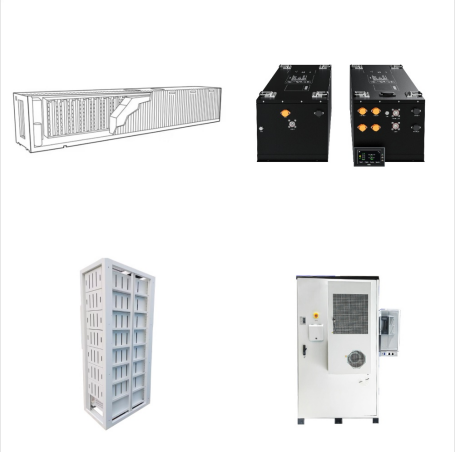

and machine power angles change. The objective of a transient stability study is to de-termine whether or not the machines will return to synchronous frequency with new steady-state power angles. Changes in power flows and bus voltages are also of concern. Elgerd [2] gives an interesting mechanical analogy to the power system tran-

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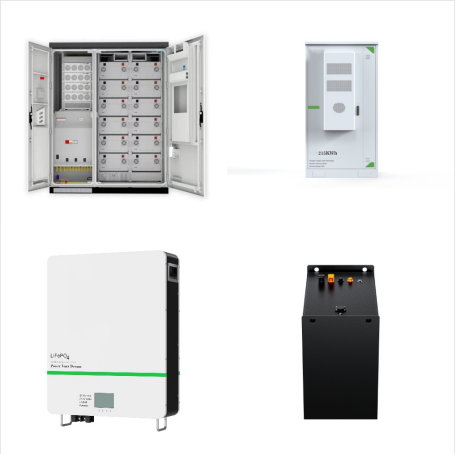

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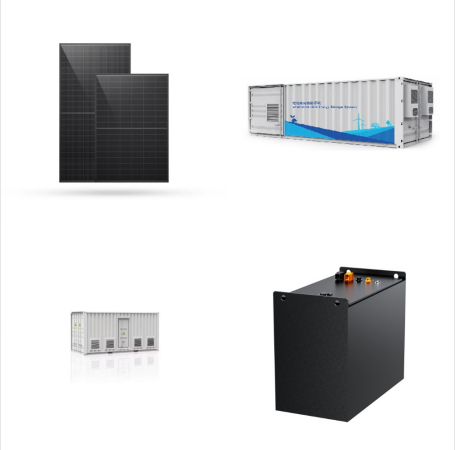

A multi-objective approach is applied to the voltage stability problem in power systems by using an adaptive evolutionary algorithm and the results showed that the proposed adaptive evolutionary algorithms enhanced the Voltage stability and outperformed the other methods, especially when the size of the power system increases. Expand

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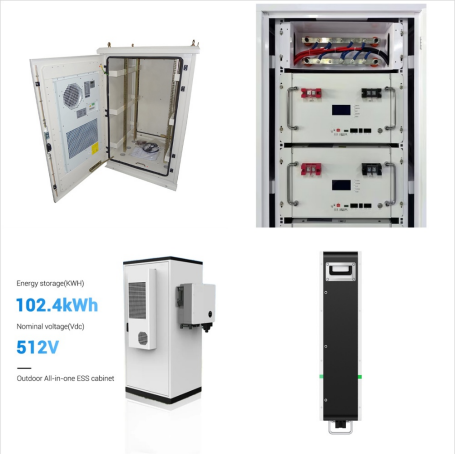
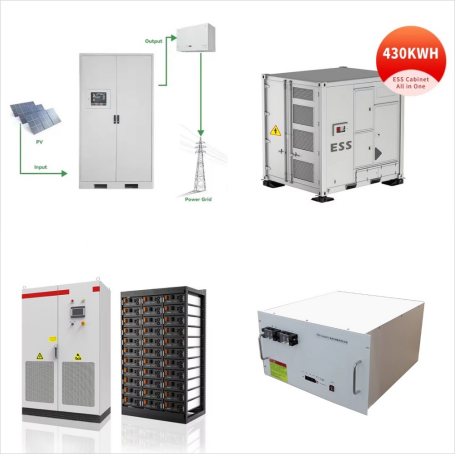



Local generation and consumption of electricity is unacceptable for economic, environmental, and reliability reasons. Consequently, electricity is generated in bulk quantities in power stations or centers and, as the customers are located over a vast geographic area, the electric energy must be transmitted over an electric power network connecting the power stations to the customers.

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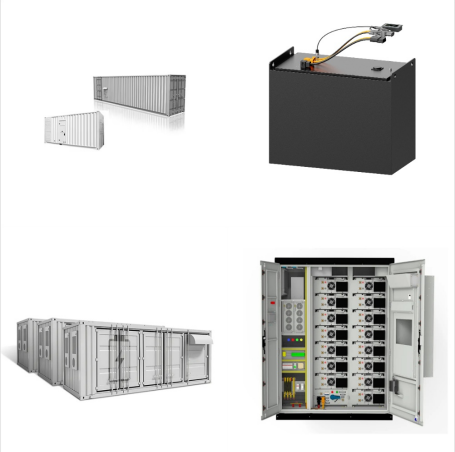

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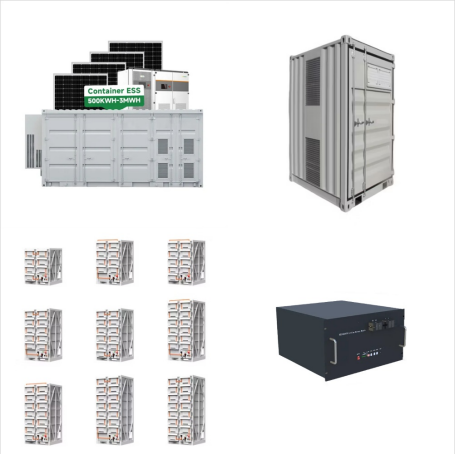


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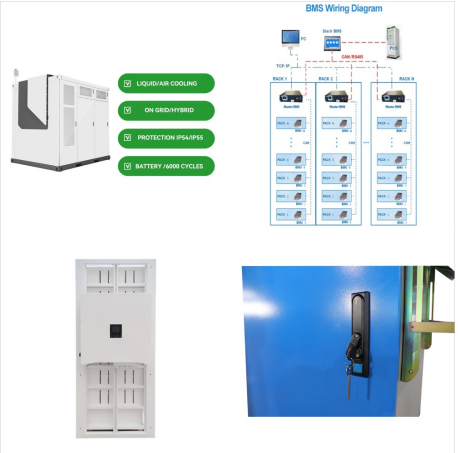


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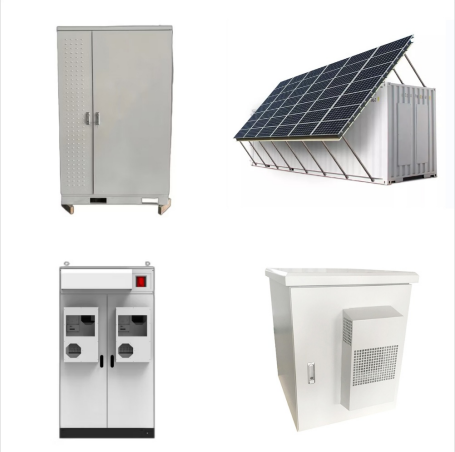

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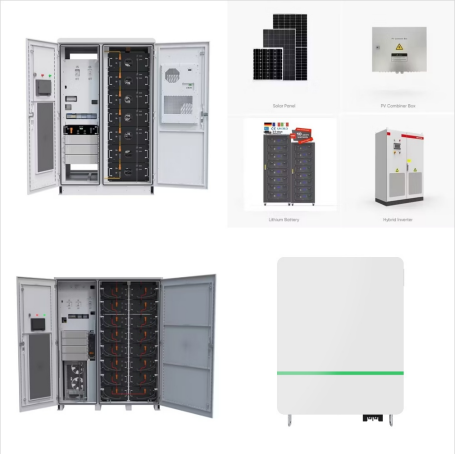

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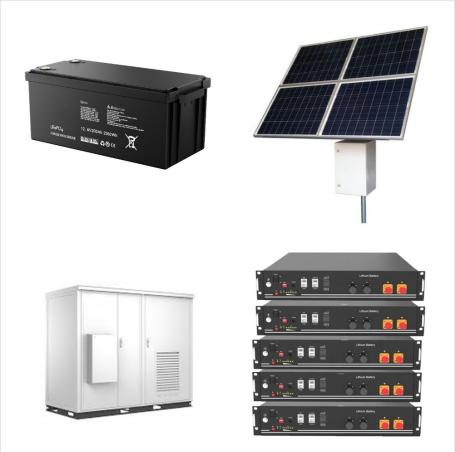

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