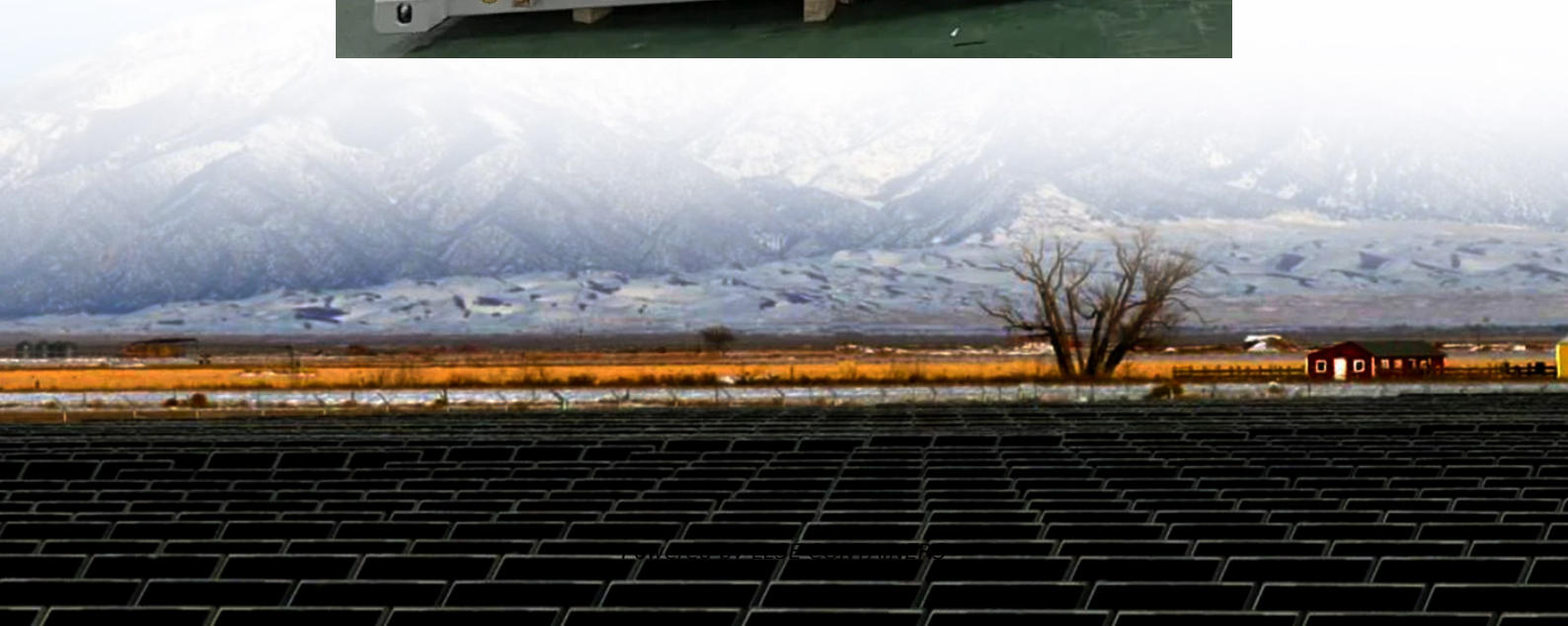


Commercial wind power generation systems in Africa





Overview

The African continent is endowed with massive energy resources such as hydropower, solar, wind, natural gas, wave energy, and many more, yet it is the continent with the least energy supply in the world.

Is energy from wind farms developing in Africa?

Though energy from wind farms is not fully developed on the African continent, it still suffers the challenge of competition in the area of market penetration, initial investment capital, energy flow reliability, plant longevity, and many more [109, 110].

How can African governments drive wind energy development?

Basically, this can be achieved through the adoption of strong 'political-will' by African national governments to drive wind energy development. There is also the need for institutional frameworks to ensure the practical adoption of new wind energy technologies.

Is wind energy a viable investment in Africa?

To evaluate the growth potential of the wind industry in Africa, the economic viability of wind power generation needs to be assessed. The cost of producing and selling the energy need to be economically profitable. Although globally, the general cost of wind energy has reduced to US\$59 per MWh, the capital cost has not changed much.

How can Africa benefit from a wind energy agreement?

This agreement is expected to increase the utilization of energy in Africa by offering improved and efficient access to investors, thus enhancing large-scale functional renewable power, including wind energy. Although the potential for wind energy is promising, there are main obstacles that hinder its growth in Africa.



Commercial wind power generation systems in Africa



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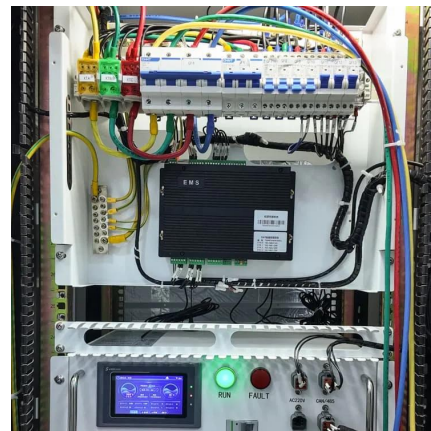
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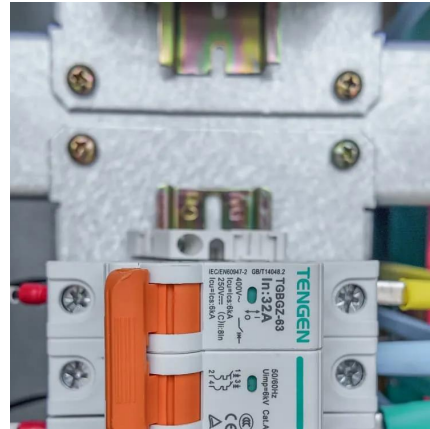
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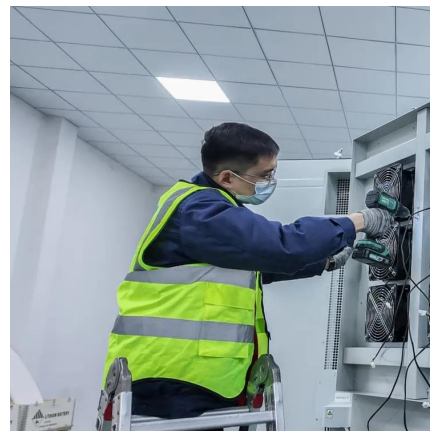


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