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African Energy Access and Development: Situation and Research State of the Art

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Africa is facing a major challenge today, which is access to 100 % energy for the entire continent within ten years. This is a real challenge for researchers and actors working in the field of energy and renewable energy in particular. Indeed, the challenge is less the continent's universal access to energy but rather universal and sustainable access to protect and conserve natural resources and the least possible negative impact of the exploitation of the continent's resources. This, calls on, both politicians and stake-holders to find a balance between the right of access to energy and the socio-economic development of the continent and the sustainable and renewable exploitation of Africa's energy resources. Thus scientists, in particular physicist researchers working in the field of Energy, have an important role in decision-making through scientific and technical advice to be given to politicians and decision-makers.

In this communication, African's energy context will be presented followed by the scientific contribution of African researchers in the field of energy. A presentation of possible orientations for a sustainable and innovative exploitation of energy resources in Africa will be made.

Finally, we will present a review of some examples of results and innovations in the field of energy in the continent.

Abstract Category

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