

Alleviating Energy Storage Concerns

Energy storage coupled with renewable energy ensures supply is less intermittent, thereby solving balancing and system reliability issues

FOR IMMEDIATE RELEASE

Johannesburg, 3 December 2018; The International Energy Agency (IEA) predicts that by 2035, developing nations will constitute 80% of total global energy production and consumption alike. A greater portion of this new generation will be derived from renewable sources in response to adhering to international policies for cleaner energy. While the costs of renewable generation are declining, concern for energy storage that is essential for the effective utilisation of these renewable sources is on the rise. However, with the advent of a revolutionary concept known as Battery Energy Storage System (BESS), these concerns have been somewhat appeased. The Battery Energy Storage System (BESS) is a system that stores energy using a battery technology so that it can be utilised in the future.

Spurred by the adoption of cleaner energy, declining prices and regulatory subsidies; solar photovoltaics, battery energy storage systems and mini-grids are being increasingly utilised across the electric system. These developments necessitate that utilities adapt their conventional centralised systems into more flexible, integrated and distributed power networks. This movement is evolving from preliminary phases to long-term investments that support the evolution of new business models.

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While still expensive, the cost of energy storage is rapidly declining. A report released by the International Renewable Energy Agency (IRENA) stated that the cost of battery storage for stationary applications could fall by up to 66% by 2030. This rapid decline has made the economics of energy storage more appealing to investors, grid operators, utilities and end-users alike. The developing technology has evidently demonstrated that economies of scale are now possible.

The deployment of renewable energy is not only driven by cost efficiencies and environmental awareness, but when coupled with Battery Storage, a new dimension emerges where utilities are able to compete on a level playing field with conventional electricity power plants. Furthermore, energy storage remains a flexible, scalable and efficient solution. Energy storage thwarts the need for power utilities to unearth and replace wires or spend money and time on constructing new plants. As an alternative, they can build a network of battery storage within 6 months.

Energy storage technologies are viewed as a potential game-changer for widespread adoption of renewable energy generation throughout Africa. They facilitate the management of renewable power intermittency, demand response services and the dispatchability of stable, clean and sustainable power into the local or national grid system.

African power generation has traditionally been centralised from costly (often antiquated), poorly managed and maintained, inefficient fossil fuel based plants on unreliable grid infrastructure. Renewable energy and storage technologies offer low cost utility scale and distributed generation opportunities to African countries to break their dependence on such expensive plants. Policy-makers and state utilities in many countries face a challenging journey of market reform and infrastructure improvement in order to make this shift. This is needed before they will be able (and willing) to support widespread cheap and efficient generation capacity from distributed renewable energy with storage plants running alongside larger centralised plants, each selling power at cost-reflective tariffs and across robust and reliable grid infrastructure.

The reality is that energy storage is going to unlock huge opportunities for more renewable energy investment in Africa at both a utility and distributed scale that will totally disrupt the traditional African power sector model. Governments and state utilities will need to adapt quickly to embrace the evolution and to avoid more and more potential customers going off-grid in the interim. *

Energy storage projects are now under development in various parts of the world thanks to the reduction of the technology's costs and its necessity to manage the electricity networks and facilitate the renewable energy growth. But does this mean the time to develop energy storage in Africa has arrived too? The Africa Energy Indaba will be discussing the role and impact of energy storage in Africa through a focused dialogue, unpacking and exploring the opportunity for Africa.

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**Source: NortonRose Fulbright*

Press Release Ends



ABOUT AFRICA ENERGY INDABA

An African Energy event for Africans and by Africans

2019 Theme: Africa's Energy Future

Africa's power and energy sector is a critical driver of growth and development across the continent. With vast natural energy resources ranging from coal, oil, gas, hydro, solar, wind and geothermal, there is ample choice for the discerning energy investor. Lack of access to electricity means that there is an opportunity for regional governments, energy businesses, organisations and financiers to unlock electricity access to millions of people who have don't have power. **The Africa Energy Indaba** is the continent's premier energy conference and exhibition: bringing together leading African and global energy players to unlock energy and business opportunities across the African continent. The event is the World Energy Council (WEC) regional event for Africa and has strategic partnerships with the South African National Energy Association (SANEA) and the NEPAD Planning & Coordinating Agency (NPCA).

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