

## Manufacturing energy storage tanzania

The idea comes while Tanzania is facing power cuts, due to the lack of sufficient rains that caused a drop in hydro-electricity production, and an increase in the use of electricity in the country.

At an estimated 57 trillion cubic feet of gas reserves both in the Indian Ocean and offshore, Tanzania holds east Africa largest gas deposits, with an annual production of 110 billion cubic feet from three fields: Songo Songo, Mnazi Bay, and Kiliwani.

Currently the country annual natural gas production stands at 68.02 billion cubic feet as compared to 59.96 billion cubic feet recorded in the same period of 2021/22 which is equivalent to 13 percent increase.

Clarke Energy, a leading multinational specialist in distributed energy solutions, including gas-to-power and battery energy storage systems has partnered with industrial companies in providing self-generated gas power plants by using natural gas.

Speaking recently at the power generation networking and cocktail evening in Dar es Salaam, the Clarke Energy Managing Director for Africa, Yiannis Tsantilas said that they have now delivered over 45MW of installed power generation capacity in the country.

"These solutions provide resilient and reliable self-generated electricity supply for manufacturing and processing and independent power producers (IPP) who sell power as a service (PaaS) to other industries. The existing customer base are notable players are in the steel, glass, flour mills, tobacco and oil and gas industries. "We were delighted to hold this networking evening and engage in project discussions whilst exchanging thoughts on emerging trends in the energy sector in Tanzania."

On the other hand, the General Manager of Clarke Energy, Mr Emile Hamman, clarified that aside from reliability, an additional benefit of self-power generation utilising natural gas includes significant cost savings compared to generating electricity from other fuel sources.

"Clarke Energy has a wealth of experience in providing resilient and efficient energy solutions for industry and by hosting this networking evening, we aim to establish strong partnerships with new and existing customers, share knowledge and expertise, and collectively drive innovation in the power generation industry."

He said, once a gas power plant has been installed, it is connected to a network of gas pipelines or bottled variants transported as compressed natural gas (CNG) or liquified natural gas (LNG) to the customer site by a gas supplier. The locally based team of Clarke Energy engineers will commission the power plant, hand over the gas genset to the customer, and kick off the service maintenance plan.



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Currently Tanzania's total power installed capacity is 1,605.86 MW (2021), mostly generated from natural gas (48%), followed by hydropower (31%), petrol (18%), solar (1%), and biofuels (1%).

Battery storage: A solution to emerging markets? growing energy needs, battery storage is beginning to deliver on its promise and potential in many parts of rural Africa. Stefanie Werler and Franziska Kohler of GIZ reveal how solar+storage could solve Tanzania's energy problems with a little forethought and planning.

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