

# Wind solar storage cost vs benefit calculation in Tanzania

Should Tanzania invest in solar and wind energy?

The International Energy Agency (IEA) estimates annual clean energy investments will more than triple by 2030. With its vast resources and location, there are opportunities for Tanzania to invest in its abundant solar and wind energy potentials.

How is solar energy used in Tanzania?

Currently, the potential solar energy resources in Tanzania are used in different parts such as solar thermal for heating and drying and photovoltaic for lighting, water pumps, refrigeration purposes, and telecommunication. Solar energy is used mostly in rural areas with about 64.8% compared to urban areas with only 3.4%.

Where is wind energy found in Tanzania?

Based on the current research works, Tanzania has a lot of wind energy resources in the areas of Great Lakes, the plains, and the highland plateau regions of the Rift Valley.

How can we improve supply security in Tanzania?

Running large-scale international auctions for procurement of wind power and solar PV would be the best way to bring much needed private investment to boost the generation capacity in the Tanzanian power system, and a natural part of the least-cost expansion approach

How much investment is needed to meet Tanzania's growing energy demand?

As outlined in section 4.1.2, approximately USD 100 billion in investments is required to meet Tanzania's growing energy demand

Is renewable energy in the electricity mix a problem in Tanzania?

In a Tanzanian context, the extensive rural distribution grid that has been established over the past years constitutes a particular concern with regards to



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