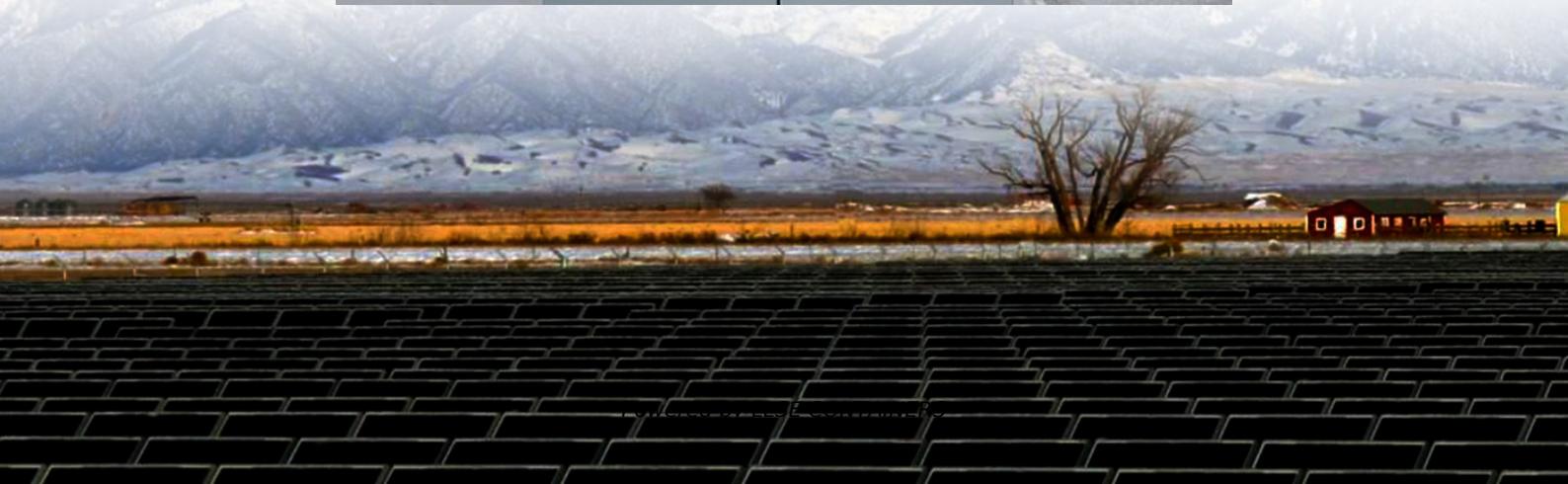




LLSE CONTAINERS

# **Cost-effectiveness of local energy storage batteries in North Africa**





## Overview

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Are lithium-ion batteries a viable energy source in Africa?

Although Africa is rich in renewable resources, their use remains limited. Implementing electrochemical energy conversion and storage (EECS) technologies such as lithium-ion batteries (LIBs) and ceramic fuel cells (CFCs) can facilitate the transition to a clean energy future.

Are battery electricity storage systems a good investment?

This study shows that battery electricity storage systems offer enormous deployment and cost-reduction potential. By 2030, total installed costs could fall between 50% and 60% (and battery cell costs by even more), driven by optimisation of manufacturing facilities, combined with better combinations and reduced use of materials.

Why does Africa need a battery factory?

This means that Africa loses the value-added benefits of these resources and depends on imports of expensive battery materials. Hence, it is essential to establish local refining and chemical processing facilities to supply manufacturers with materials .

What happened to battery energy storage systems in Germany?

Small-scale lithium-ion residential battery systems in the German market suggest that between 2014 and 2020, battery energy storage systems (BESS) prices fell by 71%, to USD 776/kWh.



## Cost-effectiveness of local energy storage batteries in North Africa



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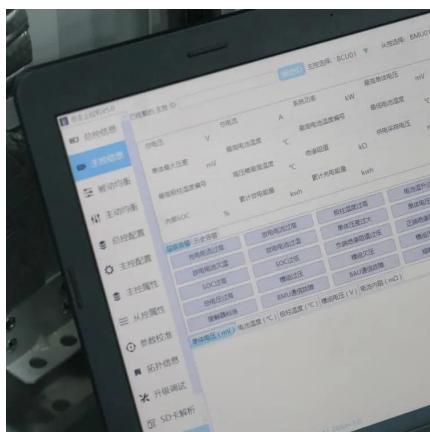


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