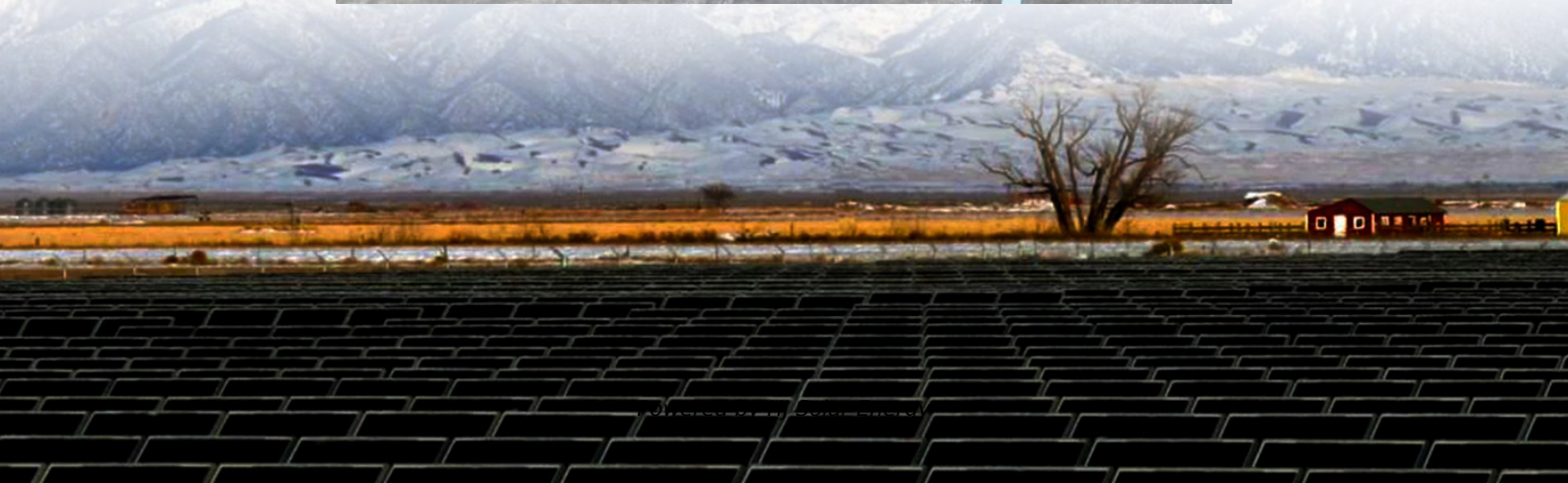


# **Utility scale ESS project financing options in Zambia 2025**





## Overview

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How much energy does Zambia use?

0.01%), and Electric stove (8.6%). Zambia's total installed capacity is 3,811.3 MW, and its energy mix is predominantly hydro-based, with renewable energy contributing more than 83 percent of total electricity generation. In recent years, significant strides have been made in diversifying renewable energy.

How has the energy sector impacted the economy of Zambia?

to 15.5 percent<sup>9</sup> as of August 2024. The Government of the Republic of Zambia (GRZ) has also taken steps to manage public debt, securing International Monetary Fund (IMF) support in 2022 to enhance fiscal stability. The energy sector has had a substantial macro-fiscal impact, particularly in driving economic activities within the mining, agricultural.

What is the access to electricity in Zambia?

regional electricity trading hub. Access to electricity in Zambia remains low, covering only 53.6% of the population with access in rural areas at only 33.9% and in urban areas at 80.3%<sup>10</sup>. According to the Multi-Tier Framework (MTF) data for Zambia, a large portion of the population remains at Tier 1 or 2, indicating limited access to electricity.

Does Zambia have a power supply deficit?

Energy generation in Zambia relies almost entirely on hydro power, accounting for nearly 90 percent of its total installed generation capacity. While the country's electrification rate stands at approximately 27.9 percent, it is facing a serious electricity supply deficit from recent droughts.

When will Zambia's Integrated Resource Plan (IRP) be completed?

Expected to be completed by 2026. With regard to Transmission infrastructure, Zambia's Integrated Resource Plan (IRP) transmission plan aims to increase the length of transmission lines by 82%, from 12,705 km in 2023 to 17,913 km



by 2030 and 23,072 km by.

When is the power utility Governance & Leadership Development Forum 2025?

in September 2025 in Cairo, Egypt. This forum will be held in collaboration with the African Power Utilities Association and the African Development Bank (AfDB) at the annual Power Utility Governance and Leadership Development Forum, providing a platform to share achievements, address challenges, and reinforce co



## Utility scale ESS project financing options in Zambia 2025

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### BW ESS and Zelos advance 1.5GW BESS project pipeline in ...

BW ESS and Zelos Energy Developments are working on a 1.5GW portfolio of utility-scale battery energy storage system (BESS) projects in the northeastern federal German ...

### Energy Storage Market in India

Solar and wind power supply fluctuates, Energy storage systems (ESS) play a crucial role in smoothening out this intermittency and enabling a continuous supply of energy when needed. Thus, for sustainable renewable energy ...



### Indonesia Launches Its First Utility-Scale Solar and ESS Project

The Nusantara Sembcorp Solar Energi Power Plant, Indonesia's first large-scale solar and energy storage project, has been launched by PT Sembcorp Renewables Indonesia ...

### [BESS in Germany 2025 and Beyond: Use Cases.](#)

...

Total CapEx Financing YTD and Forecast (EUR m)  
Given the growth predicted by BSW for grid-scale BESS capacity over the next years (see page 5),



developers of BESS are expected to display significant financing ...



### Overview of Project Finance for Utility-Scale Renewable ...

Overview of Project Finance for Utility-Scale Renewable Energy Projects This webcast will begin promptly at 12:00 PM Eastern FOLLOW STEPTOE & JOHNSON: @Steptoe\_Johnson (Twitter) ...



### German town of Beckum launches utility-scale battery ...

German town of Beckum launches utility-scale battery storage with community investment option Up to 500 residents in the German city of Beckum can invest between EUR500 (\$568) and EUR25,000 into a planned 20 ...



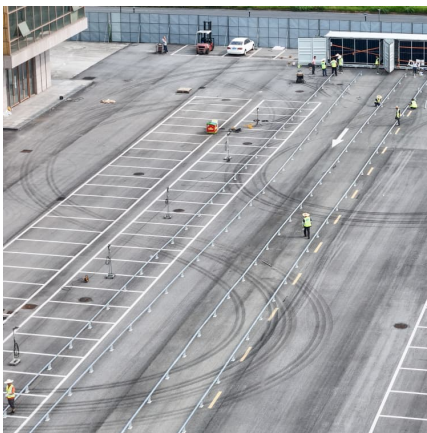
### THE RENEWABLE ENERGY POLICY 2025

5.2 Promotion of Utility Scale Renewable Energy Project 5.2.1 This Policy aims to promote the development of RE Projects with or without storage facilities in the country.



### Zambia completes 100 MW solar farm - pv magazine International

Zesco has completed the 100 MW Chisamba solar farm in southern Zambia and has launched plans for a second 100 MW phase at the site, now home to sub-Saharan Africa's ...

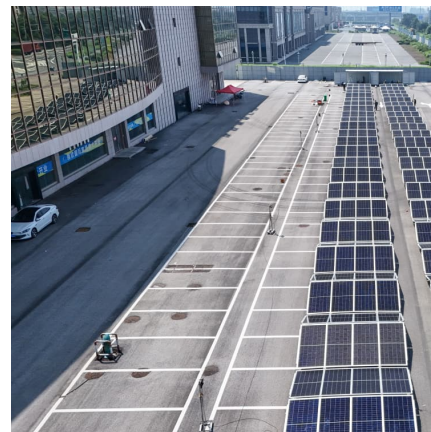


### Utility-Scale Battery Storage , Large-Scale ESS

Sungrow's utility-scale battery storage systems can unlock the full potential of clean energy and ensure sufficient electricity and quick responses to active power output.

### BW ESS and Zelos advance a 1.5 GW BESS project ...

16 April 2025, Zürich / Berlin - BW ESS and Zelos Energy Developments today announce that they are working on advancing a 1.5 GW portfolio of utility-scale battery energy storage system (BESS) projects in the federal states of ...



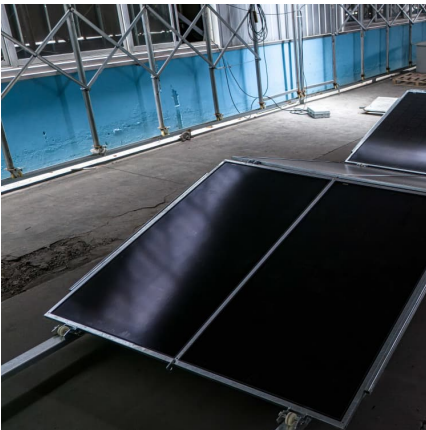
### **Outlook 2025: The future of the utility-scale BESS market**

The rapid evolution of the utility-scale battery energy storage systems (BESS) market in Australia, Europe and the US has seen the emergence of a wide range of offtake products. These arrangements offer opportunities for ...



### [Global ESS Market: Status, Trends & Future \(2025 Update\)](#)

Explore the booming Global Energy Storage System (ESS) market. Discover current status, key 2025 trends, drivers like renewable integration, challenges, and the future outlook for this vital ...



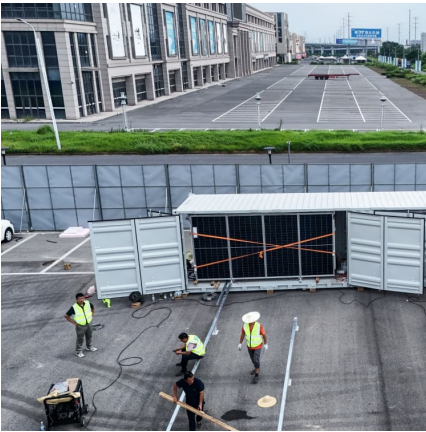
### **Utility-Scale Battery Storage in the U.S.: Market Outlook, Drivers, ...**

Introduction As the U.S. accelerates its transition toward a cleaner, more resilient energy grid, utility-scale battery energy storage systems (BESS) are emerging as a ...

### **Latest Grid-scale/Utility Scale Energy Storage System (ESS) Project**

Find All the Grid-scale/Utility Scale Energy Storage System (ESS) Project Contract Awards in South Africa Region with Ease. Discovering and tracking projects and tenders is not easy. With ...





### [Standalone energy storage systems account for 64](#)

Standalone Energy Storage Systems (ESS) are becoming the backbone of India's utility-scale ESS auctions, accounting for 64% of the total tenders issued between January and March 2025 alone, according to a new ...

### **P179380**

Additionally, Zambia is anticipated to benefit from support provided under the Advisory Support Facility, Project Preparation Facility, as well as ASCENT's extensive partnership efforts, aimed ...



### [Developing Utility-Scale Renewable Electricity](#)

Preface: What is Utility-Scale? For purposes of this presentation, utility-scale refers to projects that are multi-megawatt (e.g., 50 MW), grid-connected, and selling power to third parties.

### [FP080: Zambia Renewable Energy Financing ...](#)

This initiative will support the Government of Zambia's Renewable Energy Feed-in Tariff (REFIT) policy to develop 100 MW of renewable projects, mostly solar power, through long-tenor project loans.



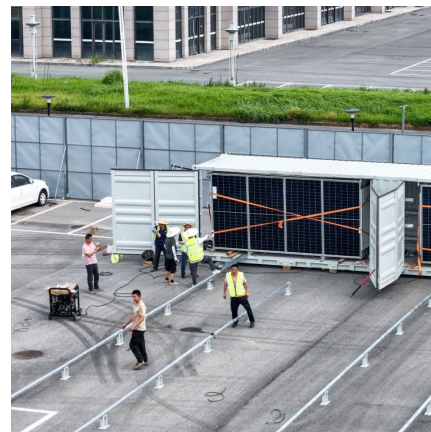
### [FP080: Zambia Renewable Energy Financing Framework](#)

This initiative will support the Government of Zambia's Renewable Energy Feed-in Tariff (REFIT) policy to develop 100 MW of renewable projects, mostly solar power, through ...



### [Sub-Saharan Africa's Largest Solar Project Reaches ...](#)

Stanbic Bank Zambia, the Mandated Lead arranger and sole lenders, provided \$71.5 million in debt financing--affirming their confidence in bankable, privately led renewable infrastructure ...



### **Cost Projections for Utility-Scale Battery Storage: 2023 ...**

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...





### [Finance and construction updates from 2 GWh of US ...](#)

North Carolina-based developer Strata said the project was awarded after a request-for-proposals issued by electric company Arizona Public Service in June 2023 and will be backed by a 20-year tolling agreement ...



### **Utility-Scale Energy Storage Systems: A Comprehensive Review ...**

Conventional utility grids with power stations generate electricity only when needed, and the power is to be consumed instantly. This paradigm has drawbacks, including ...

### [How to finance battery energy storage , World ...](#)

Battery energy storage systems can address the challenge of intermittent renewable energy. But innovative financial models are needed to encourage deployment.



### **The Trends Shaping the Utility-scale Solar Sector in 2025**

Utility-scale solar developments in 2025 will be shaped by strong incentives, surging corporate and residential electricity demand, and the ongoing quest to manage ...



[Zambia completes 100 MW solar farm - pv magazine ...](#)

Zesco has completed the 100 MW Chisamba solar farm in southern Zambia and has launched plans for a second 100 MW phase at the site, now home to sub-Saharan Africa's largest grid-connected solar



[BW ESS and Zelos advance a 1.5 GW BESS project pipeline](#)

BW ESS and Zelos Energy Developments today announce that they are working on advancing a 1.5 GW portfolio of utility-scale battery energy storage system (BESS) projects ...



**JOINT PRESS RELEASE**

The project's financing structure marks a breakthrough in project finance on the continent. Led by FMO - the Dutch entrepreneurial development bank - with a USD 26.5 ...



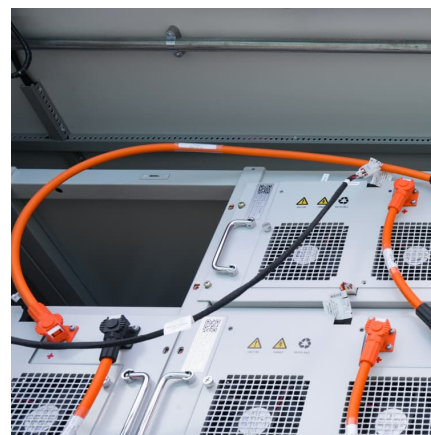


### **Zambia invites investors to bid for utility-scale renewable energy**

The Zambian government is inviting local and international investors to explore opportunities in the country's renewable energy sector, specifically for utility-scale solar projects.

### **Botswana lands funding for its first utility-scale battery storage project**

The World Bank has provided Botswana, one of the world's fastest-growing economies, with a loan to finance a 50 MW/200 MWh battery energy storage system, the ...

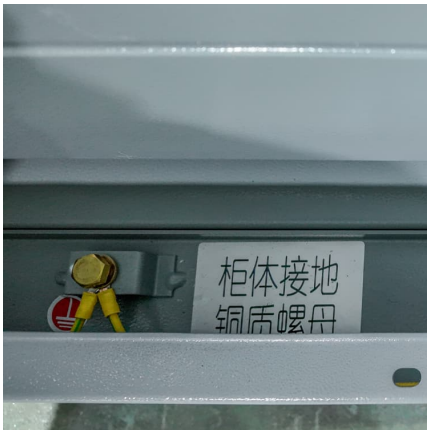


### **Almost 9 GW of utility-scale solar under construction ...**

The Africa Solar Industry Association (AFSIA) says utility-scale solar projects are under development in 45 of Africa's 54 countries, with more projects pairing solar and storage and emerging

### [The standalone energy storage market in India](#), IEEFA

Standalone Energy Storage Systems (ESS) are rapidly emerging as a key market, with 6.1 gigawatts of tenders issued in the first quarter of 2025 alone, accounting for 64% of the total utility-scale energy storage ...



### **India tenders record 73GW utility-scale renewables as challenges ...**

India has seen an increase in tenders seeking hybrid solar-wind and energy storage systems (ESS) capacity in 2024. Chart: IEEFA. India has issued a record 73GW of ...

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