# Namibia lithium battery for solar system in

JV member Narada Power will supply lithium iron phosphate (LFP) battery storage for the project. Image: Narada Power. Key contracts have been signed for the first-ever grid-scale battery storage project in Namibia, signifying the African country"s dedication to modernising its energy infrastructure, according to a top local official.

NamPower, Namibia"s state-owned power utility, has signed a contract with a Chinese joint venture to build the first utility-scale battery energy storage system (BESS) in the country and the Southern African region.

A public meeting on the Environmental and Social Impact Assessment (ESIA) for the NamPower Battery Energy Storage System (BESS) planned at the Lithops Substation was recently held at Swakopmund. Funds to the value of N$670.25 million were sourced through international open bidding as a GCF loan from the World Bank worth N$383 million along with ...

As the first utility-scale storage projects in Namibia, the Omburu BESS will provide the following benefits: o Surplus electricity from RE generation as well as

A lithium-ion battery or Li-ion battery is a type of rechargeable battery, which can additionally be installed to store that energy produced during daytime hours and which is not used. This can be done whether you already have a Solar System in Namibia or you intend to have one installed.

The BESS will use Narada Power"s lithium iron phosphate (LFP) cells, and will perform a number of "stacked" applications: peak shifting, energy arbitrage, emergency backup power, ramp-rate control and reactive power control.

JV member Narada Power will supply lithium iron phosphate (LFP) battery storage for the project. Image: Narada Power. Key contracts have been signed for the first-ever grid-scale battery storage project in Namibia, ...

"With a capacity of 150 kWp solar photovoltaic system and a 332 kWh Lithium-Ion energy storage system, this plant is the largest of its kind in Namibia. This modern system is backed up by two 80 kVA diesel generators. The entire plant is managed by an intelligent controlling system which co-ordinates all 3 energy supply sources automatically.

On 7 December 2021, KfW Development Bank, the National Planning Commission and NamPower signed a grant agreement for 20 million Euro (approx. 400 million NAD) towards the implementation of the first utility scale Battery Energy Storage System (BESS) in Namibia, and the Southern African region at large.

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The included lithium iron phosphate (LiFePO4) battery ensures exceptional performance, safety, and longevity, with pre-programmed settings for optimal output. This setup is meticulously configured at our factory, enabling easy connections and significantly reducing installation time.

The JV between the two Chinese companies will deliver the 54MW/ 54MWh battery energy storage system (BESS) at the Omburu substation in in Namibia"s Erongo region. The project aims to address the demand for power shortages, reduce the impact of unstable photovoltaic power generation on the power grid, and improve the quality of electricity used ...

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