



# Texas energy storage cape town

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The Hex site is specifically designed to store 100MWh of energy, enough to power a town such as Mossel Bay or Howick for about five hours. It forms part of Phase 1 of Eskom's BESS project which includes the installation of approximately 833MWh additional storage capacity at eight Eskom Distribution substation sites in KwaZulu-Natal, Eastern Cape, Western Cape and Northern Cape. This phase also includes about 2MW of solar photovoltaic (PV) capacity.

"We are grateful to the various funders of the Eskom BESS project, and to our construction partner Hyosung Heavy Industries. This is proof of what we can achieve when we work as a team and in collaboration with industry and local communities," remarked Eskom's Group Executive for Distribution, Monde Bala.

The BESS technology offers a versatile solution for improving overall grid performance and is in line with South Africa's commitment to the just energy transition to a more resilient and sustainable energy future. The initiative demonstrates Eskom's commitment in finding innovative solutions and embracing new technologies in preparation for the new era in the energy distribution landscape.

"We are pioneering the implementation of the BESS technology, serving as a large-scale commercial project to validate the technology's feasibility and benefits. The successful implementation will pave the way for wider adoption and possible export of the technology to other regions beyond the borders of South Africa," said Eskom's General Manager: Distribution, Operations Enablement, Velaphi Ntuli.

"The Hex project is a demonstration of what Eskom teams can do in finding alternative, innovative and lasting solutions in addressing the country's electricity challenges," said Eskom's Group Executive for Generation, Bheki Nxumalo.

The Hex project benefited the local community of Worcester by employing about 250 local community members, supporting twelve early childhood centres with playground and educational material, donation of computers, donation of five hundred full school uniforms. Furthermore, other corporate social investment projects are to be executed before the end of March 2024.

Upon completion of the first Phase, Eskom will implement Phase 2 of the project which includes the installation of a further 144MW of storage capacity, equivalent to 616MWh at four Eskom Distribution sites and one Transmission site. The solar PV capacity in this phase will be 58MW.

The rollout of these technologies together with a disciplined execution of our Generation Recovery Plan which started in March 2023, and aimed at achieving energy availability factor of 70% by end March 2025, will give the country the most needed megawatts to address capacity constraints.



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The City of Cape Town has issued a tender for a battery energy storage system (BESS) with a minimum rated power output of 5 MW and energy storage capacity of 8 MWh.

Geordin Hill-Lewis, Executive Mayor of Cape Town, announced this at a gathering on the site of the Atlantis solar photovoltaic (PV) plant. The BESS will be built on the same site so that it functions with the solar PV as a hybrid plant.

According to a statement from the city, it is the first metro in South Africa to start construction of its own solar PV plant. The R200 million Atlantis solar PV project is expected to be built within a year. It will be connected to a nearby main substation to feed 7-10 MW directly into the grid.

"This is the first utility-scale renewable energy project in Cape Town and it will be owned and operated by the city. The first power is expected to be delivered near the end of 2025. The idea is to potentially have a number of similar plants rolled out across the metro in years to come," said Hill-Lewis.

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