

Industrial microgrids angola

Hitachi ABB Power Grids has an impressive and varied track record in technology innovation and adding value to the customer through their huge installed base of projects, whether that is ensuring grid compliance for a 23MW solar power plant in Jordan or studying the effect of Germany's ambitious electric vehicle goal on the country's low voltage grid.

Their latest, and highly prestigious, project is to support the Government of Angola in meeting their renewables target by connecting Sub-Saharan Africa's largest solar project to the country's transmission network. While Angola has a rapidly growing economy and a population of approximately 30 million, their power system is still relatively small and with a huge potential of development, so the task required intelligent analysis and feasibility studies.

Hence Hitachi ABB Power Grids conducted an in-depth grid impact study into Angola's unique requirements to analyse the best way to achieve their targets. A team of leading experts worked on the ground for 18 months in the run up to the order with the customer - MCA Group, on behalf of Angola's Ministry of Energy and Water - being secured.

This landmark project will have a huge societal impact on Angola, specifically its economy, and will significantly increase the country's share of renewable energy. It is one of the largest photovoltaic projects ever delivered and will enable Angola to integrate more renewables and electrify rural areas, whilst still maintaining a stable network throughout the country. It also fully supports the UN's Sustainable Development Goal 7 of ensuring that all people have access to affordable, reliable, sustainable and modern energy.

"We are proud of our team of world-class consultants who conducted an in-depth study, which is enabling the project. The project, which is the largest solar project in Sub-Saharan Africa, will contribute to a sustainable society, bringing renewable power to 30 million people in Angola" said Daniel Galvan, Head of Power Consulting within Business Unit Grid Integration.

"The issues around energy and power have become so much more complex and customers often don't expect or fully understand the challenges they are about to face when undertaking an assignment," Daniel added. "We help to break these down, find solutions specific to their assignment and make fact-based decisions amidst a complex reality. Our experts' role in this case was to advise all involved from Hitachi ABB Power Grids, and from the client MCA, to make informed decisions on technical issues surrounding the project that could have jeopardized its future operation or reduced the possibility to unlock its full value."

Hitachi ABB Power Grids has deployed advisory across six continents to help address issues of network strategy planning, and operation taking into account capacity, efficiency, stability, security, reliability and resiliency. The team of experts has a unique perspective on the complex technical, financial and regulatory



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environments that their customers face. They have helped every type of business - from large, multinational utilities to small and medium-sized municipalities and cooperatives to businesses like manufacturers and hospitals - solve their toughest power challenges.

Through extensive digital simulation expertise, specialized software developed by Hitachi Power Grids and power system modelling packages, our top-level experts can mitigate the risk and verify the feasibility of projects before the customer must sign them off.

Hitachi ABB Power Grids wins major order to support Sub-Saharan Africa's largest solar venture in Angola

Kamanzi, B. 2020. Microgrid planning and design under uncertainty: A case study in Northern Angola. *Engineering and the Built Environment*, Department of Electrical Engineering.

Foi lançado no dia 15 de Novembro na COP27, o Africa Mini Grids Program (AMP), um programa de assistência têcnica para novas oportunidades de desenvolvimento que tem como objectivo possibilitar o fornecimento de energia de forma râpida e econômica para algumas das comunidades mais pobres em África.

Actualmente, o programa contempla vinte e um países, distribuídos em três rondas e Angola está entre os oito países da primeira ronda com um orçamento de 1 milhão de dólares e com o Ministêrio da Energia e Águas (MINEA) como parceiro.

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