Abu dhabi commercial microgrids

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IRENA’s Renewable Energy Innovation Outlook series analyses emerging trends in renewable energy technologies and examines ways to increase the competitiveness of renewable energy technologies. Each Innovation Outlook identifies technology-, industry- and policy-related challenges to be overcome and assesses the potential breakthroughs and research needed to scale-up the deployment of renewable-based solutions. Renewable mini-grids, offshore wind technologies, advanced liquid biofuels, and ocean energy technologies open the series.

Innovation Outlook: Renewable mini-grids examines ground-breaking innovations that can help to unlock future power supply for unserved areas and communities through the rapid roll-out of mini-grids based on solar, wind or other renewable sources. Continued research and development (R& D) and innovation are needed to make renewable mini-grids less costly, more environmentally friendly, more reliable and easier to install.

Rahul Rajeevkumar Urs, Assia Chadly, Ameena Al Sumaiti, Ahmad Mayyas, Techno-economic analysis of green hydrogen as an energy-storage medium for commercial buildings, Clean Energy, Volume 7, Issue 1, February 2023, Pages 84-98, https://doi /10.1093/ce/zkac083

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Al Masaood Power Division, the official distributor of MTU a Rolls-Royce Power Solutions Company in the UAE and Bahrain, one of the leading suppliers of decentralized energy systems, throws the spotlight on smart microgrid solutions during their participation at the first ever 3D Virtual edition of the Water, Energy, Technology and Environment Exhibition (WETEX), the ideal gateway of solar business in the region, on October 26 -28, 2020.

Microgrids support a flexible and efficient electric grid, by enabling the integration of growing deployments of distributed energy sources such as renewables like solar. Microgrids are decentralized energy systems that are composed of renewable power generation, power storage and conventional power generation used to meet a given demand.

The utilization of Microgrid technologies is part of the UAE Energy Strategy 2050, which is the country"s first unified energy strategy that is based on supply and demand, and aimed at increasing the contribution of clean energy in the total energy mix. A combination of renewable, nuclear and clean energy sources--all brought together to help meet the country"s economic requirements and environmental goals.

First established in 1972, Al Masaood Power has been able to consolidate its leading reputation across the

UAE power industry. The company has demonstrated a keen understanding of the important role it plays in the move to embrace clean and renewable energy that can meet the demand and deliver a sustainable and effective power generation method. Over the years, the company has led in the implementation of key initiatives and programs aimed at highlighting the significance of renewable energy.

Rapid economic and demographic growth over the past decade pushed the UAE"s electricity grid to its limits. Installed fossil fuel generating capacity, which accounts for nearly all of the UAE"s capacity continues to rise, reaching more than 27 gigawatts (GW) in 2013, according to Federal Competitiveness and Statistics Authority. State-led entities manage the domestic electricity grid in each of the seven emirates, but the UAE is making progress toward integrating the emirates into a more efficient national grid.

One of the main advantages of the ENG project is the financial savings as a result of the reduction in installed reserve capacity on each of the individual utility systems. It also enables the commercial transfer of electricity between the power authorities.

The ENG interconnected system also provides a stronger capacity to withstand major or sudden disturbances, such as the loss of production units and failure of grid elements, whether due to outages or natural catastrophes, as well as several types of crises.

The "Electricity Market" project is a national project to provide electrical energy efficiently and effectively at more competitive prices in the country. It helps promote the export of electrical energy to Gulf, Arab and regional borders, which will contribute to the added value of the electricity sector in the country’s gross product. Read more about the "Electricity Market" project(PDF, 253 KB).

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