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This week, BYD announced the launch of a large 40-foot containerized Battery Energy Storage Station (ESS) in Doha, Qatar. The BYD ESS is part of a Solar Testing Facility whose ceremonial launch at the Qatar Science & Technology Park (QSTP) coincided with the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP18) that was held in Doha, Qatar.

The QSTP is Qatar’s first nationally-chartered free trade zone for commercializing technologies in four areas: Energy, Environment, Health Sciences, and Information and Communication Technologies and is located on over a 1,000-hectare campus in Doha. The GreenGulf and Chevron Qatar Ltd test facility where the BYD ESS is located is near a ~35,000 square-meter site located within the QSTP.

This project is the first of its kind in Qatar to integrate 500 kiloWatt-hours (kWh) of energy storage with the electricity grid, solar power and back-up diesel generators, providing both on-grid and off-grid operation with black start, Voltage (VAR) and Frequency regulation.

GreenGulf and Chevron selected BYD’s Iron-Phosphate battery storage system for this commercial-grade project. It is the first chemistry of its kind that is completely environmentally-friendly and capable of meeting requirements for reliability in harsh climates, cycle and service life as well as many other broad performance requirements.

The expected service life of the BYD Iron-Phosphate batteries is over 25 years. BYD has completed over 100 MWh of energy storage station projects around the world including Chevron’s largest CERTS-based ESS in the United States.

The BYD containerized Energy Storage System is rated at 250 kW (300 KVa) and 500 KWh with nominal output voltage of 415 VAC at a frequency of 50Hz and is outfitted with environmental controls, inverters and transformers, all self-contained, in a 40 foot shipping container to provide stable power supply. The round trip efficiency of this 500KWh system was rated at 89% AC-DC-AC (with THD

Our energy system is dynamically evolving. The realization of the urgency towards Net Zero, Green economies has been more pressing than ever. The energy transformation serving a more sustainable future, safeguarding our ecosystem and protecting our planet is of paramount importance for many developed and developing nations across the globe. In this analysis, we delve…

PRODUCT DEVELOPMENT: EMBRACING PRODUCT SAFETY AND COMPLIANCE Recent safety incidents on storage plants have raised concerns about the fire safety of battery storage systems. Such events

are extremely rare compared to the cumulated global deployments of energy storage systems, which have reached more than 27 GWh by end of 2020 (Wood Mackenzie 2021). However, for…

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