Grid modernization iraq

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High Voltage Direct Current (HVDC) systems enable utilities to move more power further, efficiently integrate renewables, interconnect grids, and improve network performance. HVDC systems utilize power electronics technology to convert AC and DC voltage and are ideal for supporting existing systems or building new power highways.

GE Vernova provides solutions that offer grid operators the ability to provide reactive power support, enhance controllability, improve stability and increase power transfer capability of AC transmission systems.

GE Vernova offers solutions for a variety of substation projects and applications, including Modular Substation Automation Systems, utility and industrial substation projects, as well as DC substation solutions.

The energy landscape today is changing, this is being led by the current industry trends of Decarbonization, Digitization, Decentralization and Electrification. Discover how GE Vernova is working with utility, consumer and industrial customers to design and deploy tailored Microgrid and Distributed Energy Resource (DER) Management solutions.

Innovations to Decarbonize the Electrical Grid. GRiDEA is our portfolio of decarbonization solutions that empower grid operators to address their net-zero objectives.

GE Vernova offers a wide range of transformer solutions for the utility, industrial, commercial, residential and energy markets. These solutions feature flexible, reliable and robust designs to support a wide range of applications. With units operating in some of the most demanding electrical environments around the world, We design and delivers transformer solutions that provide among the highest level of performance and reliability to meet rigorous operating requirements.

GE Vernova is one of the top circuit breaker suppliers in the world. Our products include a range of live tank circuit breakers (up to 800 kV), dead tank circuit breakers (up to 550 kV), as well as hybrid and compact switchgear assemblies. We also provide solutions for power generation applications with our generator circuit breakers for installations up to 1,500 MW.

GE Vernova is a global market leader for disconnectors (disconnect switches) since 1960, with 8 product facilities in 7 countries and hundreds of thousands installations in more than 130 countries around the world. The portfolio includes disconnectors for AC applications (up to 1,200 kV), for DC applications (up to 1,000 kV) and for railway applications. We also offer power connectors to connect two or more conductors for a continuous electrical path.

GE Vernova is an industry leader in the design and manufacturing of high, medium and low voltage

instrument transformers. With more than 100 years of experience, We offer a broad array of standard and high accuracy models for revenue metering and system protection applications. The portfolio of instrument transformers ranges from low voltage at 600 V suitable for industrial and high accuracy revenue metering, all the way up to high voltage at 1,200 kV. The portfolio also includes line traps and digital instrument transformers.

For a century, utilities have relied on us to deliver electrical products and services to meet their quality, durability and performance needs. Our capacitor and reactor product lines are an integral part of our portfolio. GE Vernova provides power capacitors that meet ANSI, IEEE and IEC standards, and our low voltage capacitors are UL listed. Ratings range from 1 kvar to 500 MVAR, and from 240 volts to 500 KV.

Our SF₆-free switchgear range features the same ratings and same dimensional footprint as the state-of-the-art SF₆ equipment, with a drastically reduced carbon footprint.

The collection of required asset condition data from the field on a large scale for GE Vernova and 3rd party electrical equipment is a key step in building a robust Asset Performance Management strategy. Grid Services specialists are constantly evaluating and implementing new innovative inspection technologies applying strict processes and methods. The digital inspections methods are designed to improve the efficiency of data collection, oil analysis and online monitoring. All new approaches to capture data are integrated into the EnergyAPM ecosystem for automatic data transfer.

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