ContainerPower Energy Solutions

Sofia Communication Base Station Inverter Grid-Connected Project

Overview

How did Sofia connect to the National Grid?

Sofia connected to the national grid. All work, including reinstatement, completed along the cable corridor between the converter station and substation, and at the substation itself. Completion of the mounds screening the converter stations. Completion of reinstatement of cable corridor from shore to the converter station site.

Who will build Sofia's HVDC converter station in 2022?

Starting onsite in 2022, GE's Grid Solutions will be responsible for the construction of the onshore converter station. Prysmian Group will design, supply, install and commission Sofia's HVDC export link including 15km of onshore cables and installation work.

What is the future of PV Grid-Connected inverters?

The future of intelligent, robust, and adaptive control methods for PV grid-connected inverters is marked by increased autonomy, enhanced grid support, advanced fault tolerance, energy storage integration, and a focus on sustainability and user empowerment.

Are control strategies for photovoltaic (PV) Grid-Connected inverters accurate?

However, these methods may require accurate modelling and may have higher implementation complexity. Emerging and future trends in control strategies for photovoltaic (PV) grid-connected inverters are driven by the need for increased efficiency, grid integration, flexibility, and sustainability.

Is a fuzzy-based inverter controller suitable for a PV system?

In Ref. , the authors have presented a fuzzy-based inverter controller for a PV system, in order to avoid the output fluctuations and the nonlinearity properties of the inverter output. The results show a very low voltage and current THDs of the inverter output.

Should auxiliary functions be included in grid-connected PV inverters?

Auxiliary functions should be included in Grid-connected PV inverters to help maintain balance if there is a mismatch between power generation and load demand.

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