SolarMicrogrid Solutions

Sofia communication base station inverter design

Overview

Where will Sofia's new onshore converter station be located?

The location of Sofia’s new onshore converter station will be adjacent to the Wilton Complex near the village of Lazenby. This is where the offshore cables bringing the power generated by Sofia will land, before joining onshore cables to transmit the power to the new converter station.

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.

How will Sofia's power be transmitted?

The power produced by Sofia will be transmitted by offshore cables that arrive on land at a site between Redcar and Marske-by-the-Sea. Each offshore cable connects to an onshore buried cable that runs seven kilometres to a new converter station, currently approaching completion on a site adjacent to the Wilton Complex.

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.

What's going on with the construction of Sofia?

Construction of Sofia officially began June 2021 with enabling works at the site of the project's onshore converter station in Redcar, Teesside. All the project's Tier 1 suppliers - providing the main component packages including turbines,

foundations and electrical infrastructure - are progressing with their respective work scopes.

Will Sofia be fully operational in 2026?

Its successful installation keeps the 1.4 gigawatt (GW) project on track to be fully operational in 2026. Once fully operational, Sofia will be capable of generating enough electricity to power approximately 1.2 million typical UK homes.

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Telecommunication

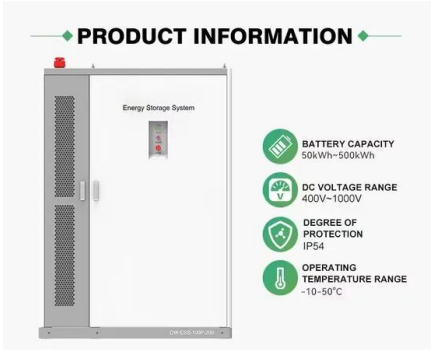
Contents As part of the global development of telecommunications networks, Base Transceiver Stations (BTS) are also frequently constructed in Off-Grid locations or Bad-Grid locations. The ...

Product Information

Integrated Sensing and Communication enabled Sensing ...

This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. It can detect the targets on the road with communication ...

Product Information



Integrated sensing and communication enabled sensing base station

This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. SBS can detect the targets on the road with ...

Product Information

RWE marks major milestone with installation of HVDC Offshore ...

RWE, one of the world's leading companies in offshore wind, has achieved a major milestone in the delivery of its flagship Sofia Offshore Wind Farm with the successful ...

Product Information

Case Studies , Sofia Offshore Wind Farm

We engaged with the project team to identify the best way of sequencing the construction programme. By working together with all parties, we developed a series of approved ...

Product Information

SOFIA Windfarm Project - Technical assistance, design review ...

Its commissioning is scheduled for 2025. The electricity generated will be transported to the British transmission network via a 220km-long HVDC line. Two HVDC-VSC General Electric ...

Product Information

Communication Base Station Inverter Application

How to ensure the compatibility between the inverter and other systems of the communication base station? The key to ensuring compatibility is to consider when selecting ...

Product Information

[Ground Base Station Antenna Design for Air-to-Ground ...]

The digital airspace offers new opportunities in the sky, such as mission-critical mobile broadband solutions and high altitude communication for aircraft [4]. In the latter use case, ground base ...

[Product Information]

[RWE Sofia Offshore Wind Farm: onshore converter station]

Severfield undertook the design, fabrication, treatment, and assembly of the steel frames for the onshore converter station for the Sofia offshore wind farm. Sofia is a major new wind farm ...

[Product Information]

Optimised configuration of multi-energy systems considering the

Additionally, exploring the integration of communication base stations into the system's flexibility adjustment mechanisms during the configuration is important to address the ...

[Product Information]

PowerPoint Presentation

The substation is to be lifted from lifting brackets located as the base frame with the help of spreader and crane. The length of the four part lifting chain/sling is dependent on the actual ...

[Product Information]

[800VA Pure Sine Wave Inverter's Reference Design]

An Inverter not only converts the DC Voltage of battery to 220-V/120-V AC Signals but also charge the Battery when the AC mains is present. The block diagram shown above is a simple ...

[Product Information]

Base Station System Structure

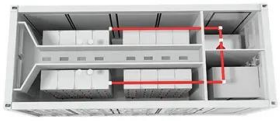
2 Base Station Background The intent of this section is to explore the role of base stations in communications systems, and to develop a reference model that can be used to describe and ...

[Product Information]

solar power for Base station

Solar panels generate electricity under sunlight, and through charge controllers and inverters, they supply power to the equipment of communication base stations, with batteries acting as ...

[Product Information]



Onshore Construction

Each offshore cable connects to an onshore buried cable that runs seven kilometres to a new converter station, currently approaching completion on a site adjacent to the Wilton Complex.

[Product Information]

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