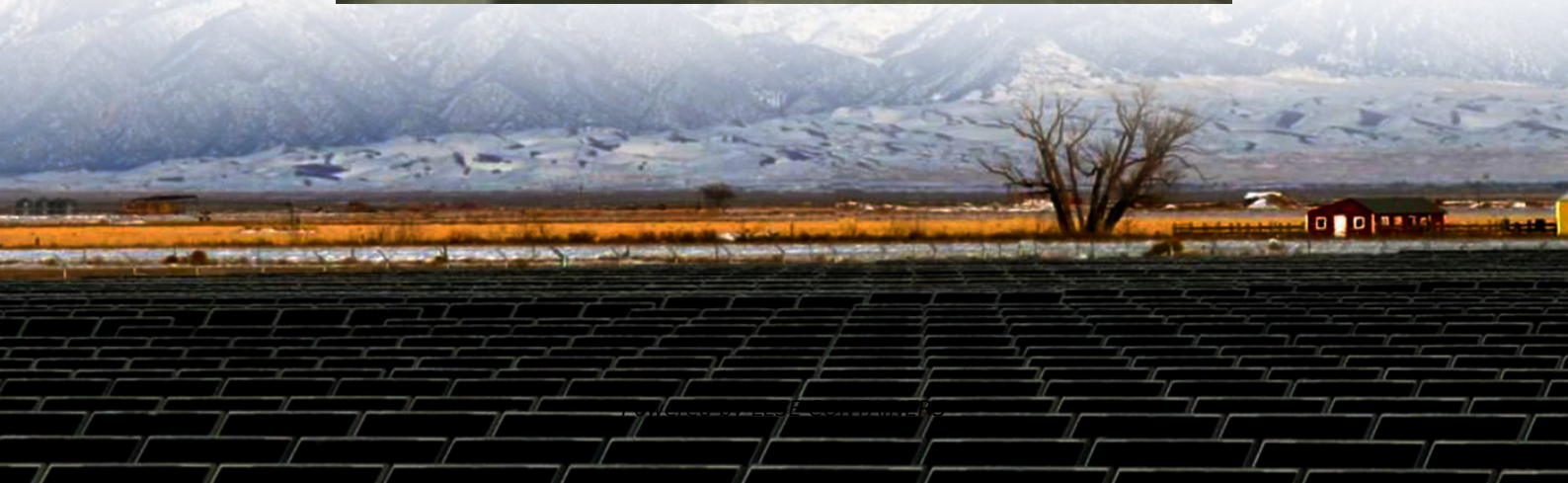


5g base station communication construction project introduction





Overview

What is 5G base station architecture?

5G base station architecture is characterized by its flexibility, virtualization, and the ability to support diverse services through network slicing. The separation of CU and DU, along with the introduction of cloud-based technologies, allows for more efficient resource utilization and scalability.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

Why do 5G base stations use MIMO & beamforming?

Both are critical for ensuring seamless communication between different network elements. 5G base stations often use Massive Multiple Input Multiple Output (MIMO) technology and beamforming to enhance spectral efficiency and coverage. Massive MIMO involves using a large number of antennas to communicate with multiple devices simultaneously.

What is a 5G ran?

The RAN is responsible for connecting user devices to the core network. In 5G, the RAN is divided into two main components: gNB (gNodeB) and NG-RAN (Next-Generation RAN). gNB (gNodeB): This is the physical base station that communicates directly with user devices (UEs).



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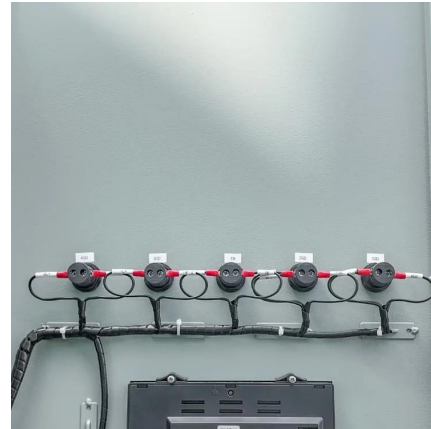


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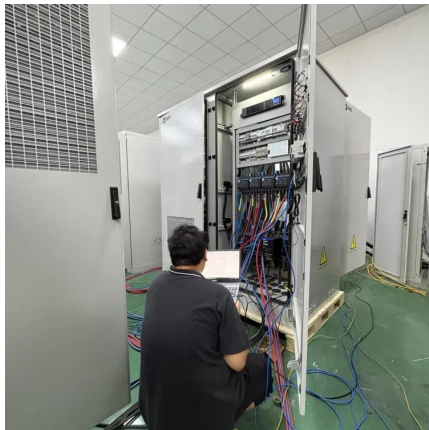
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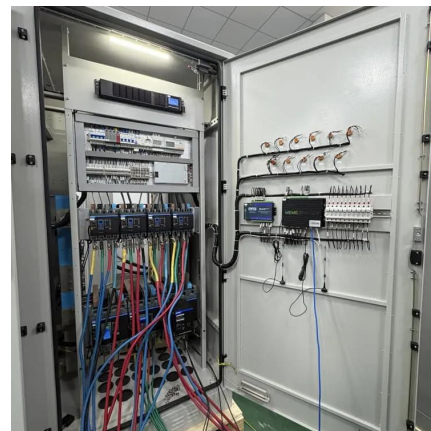
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Compared to 4G base station engineering, 5G projects face higher demands in planning, design, construction, and implementation due to frequency band characteristics, technical complexity, ...



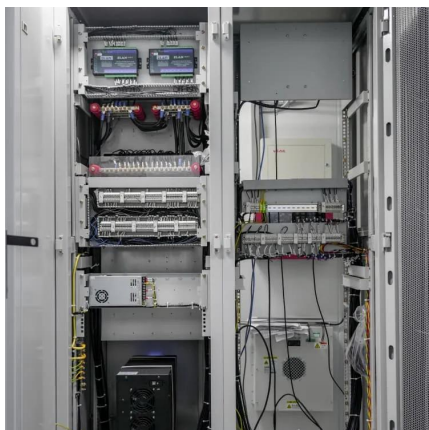
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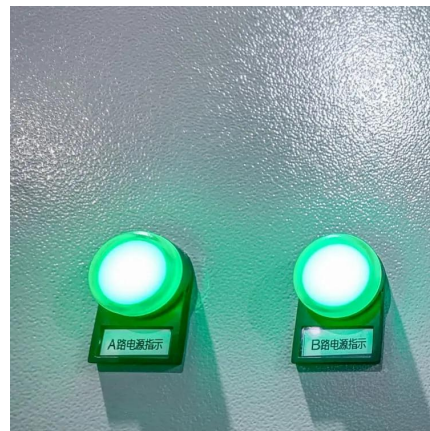


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