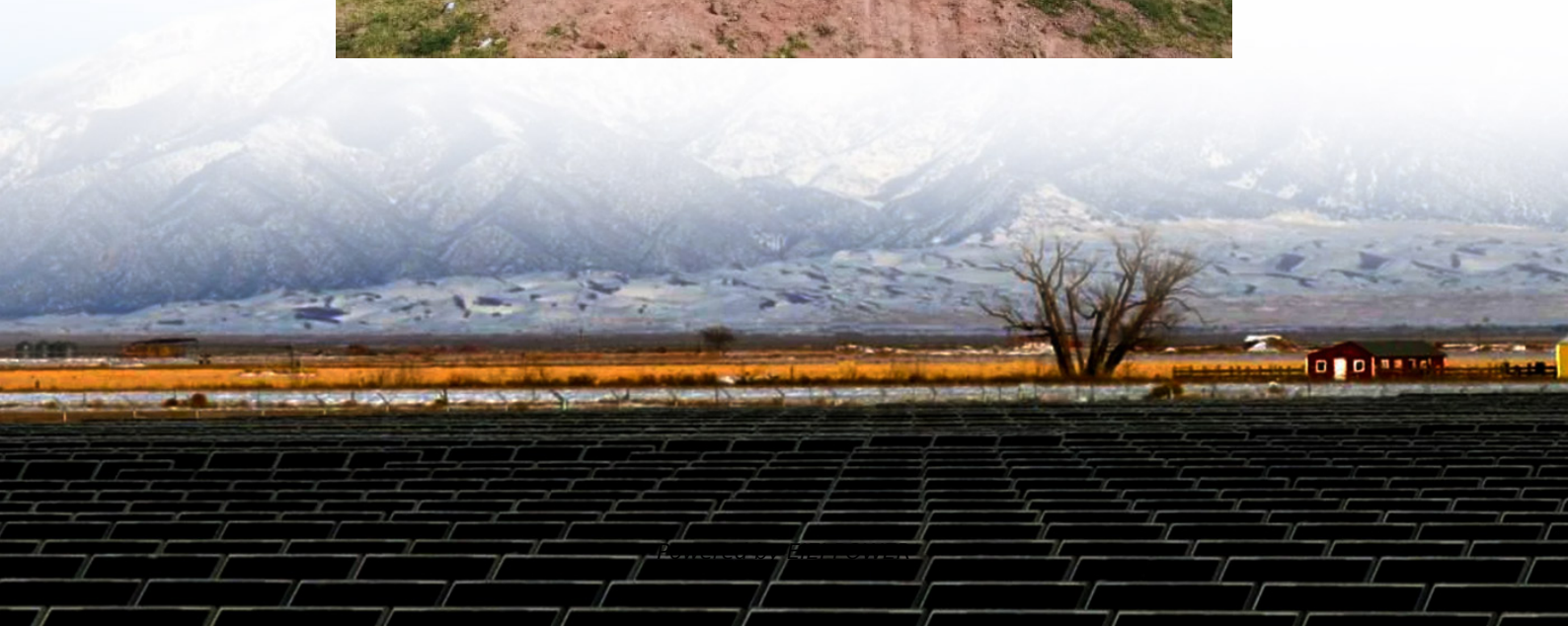


# Base station construction meets communication needs





## Overview

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What is a base station?

**Network Coverage:** Base stations cover a given part of the earth. Various base stations are set up in such a way that forms a network to encompass all areas of the city, region or even an entire country.

Why do we plan base station locations?

The planning of base station locations is undertaken to satisfy the needs of users within their respective coverage areas. To enhance the communication quality for users, it is essential to strategically lay out base stations within the planned territory .

What are the components of a base station?

The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices. The block diagram of a base station typically includes the following key components: **Baseband Processor:** The baseband processor too deals with different communication protocols and interfaces with mobile network infrastructure.

Why do we need a base station?

**Technological advancements:** The New technologies result in evolved base stations that support upgrades and enhancements such as 4G, 5G and beyond, its providing faster speeds with better bandwidth. **Emergency services:** They provide access to emergency services, so that in case of emergency, people can call through their mobile phones.



## Base station construction meets communication needs

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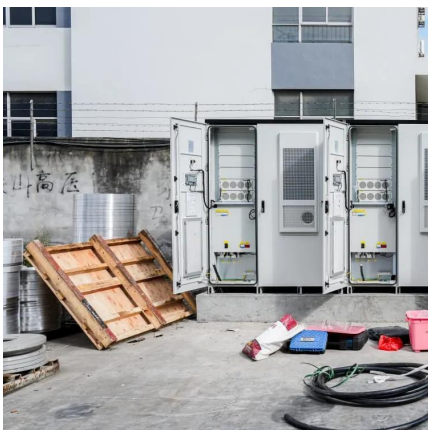
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