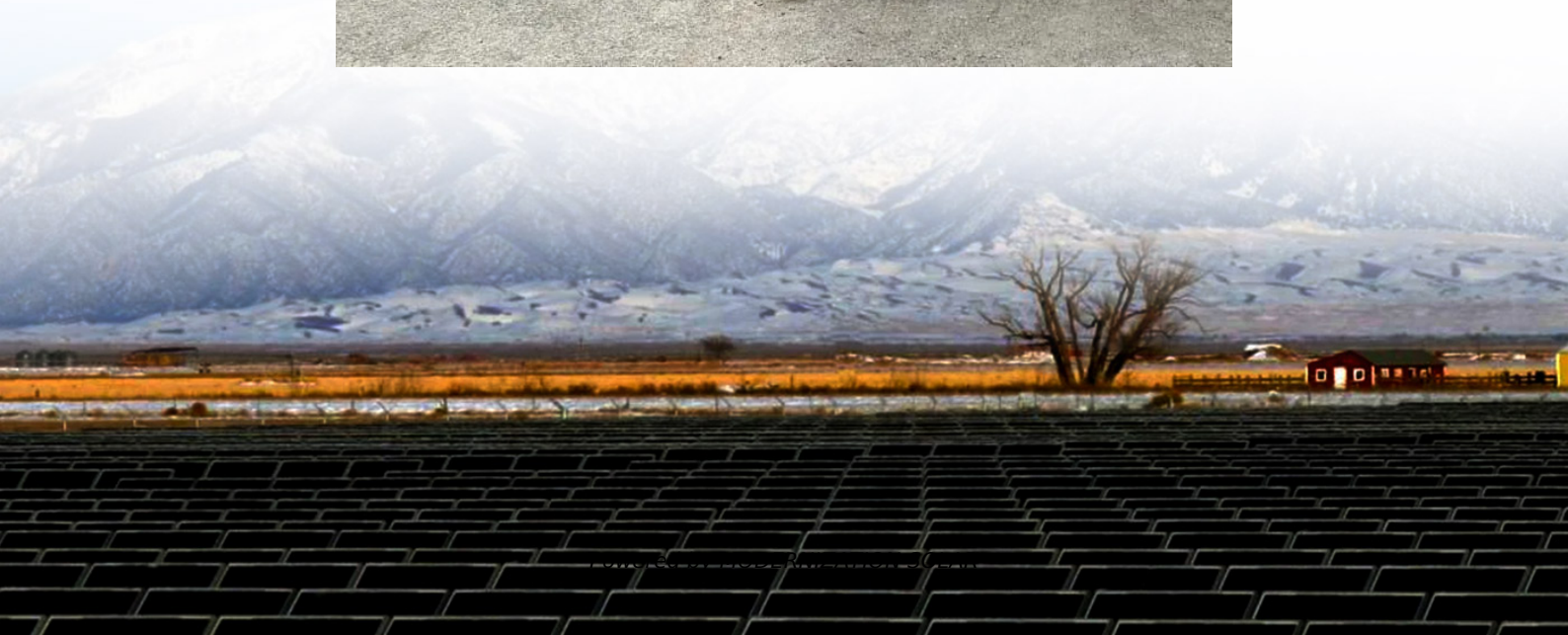


# Communication Engineering Base Station Construction Case





## Overview

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What are the stages of base station construction?

Base station construction is divided into production stage, construction stage and transportation stage.

How many base stations are needed?

We employ a simulated annealing algorithm to determine the number of new base stations needed. After rigorous analysis, our optimal solution suggests deploying 131 micro and 19 macro base stations, with a total cost of 321. References is not available for this document.

What is a 5G base station life cycle assessment (LCA)?

Based on the Life cycle assessment (LCA) method, establishing a model for the construction activities of a single 5G base station, and dividing the life cycle of the base station into equipment material production stage, base station construction stage and transportation stages.

What is a flying base station?

Flying base station relies on the traditional stationary terrestrial base . In modern cellular systems, high-rate communication is performed using MIMO transmission by a Single Base Station (BS). This method is able to improve the transmission rate when the user is at the cell-inner. However the rate severely degrades when the .



## Communication Engineering Base Station Construction Case

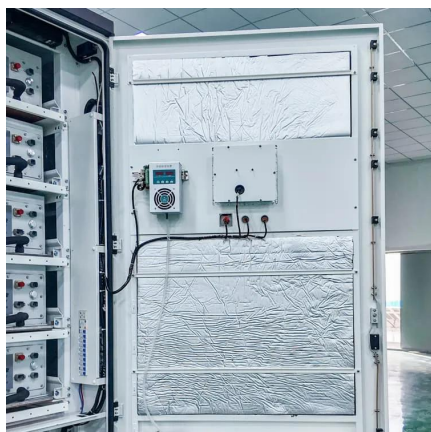


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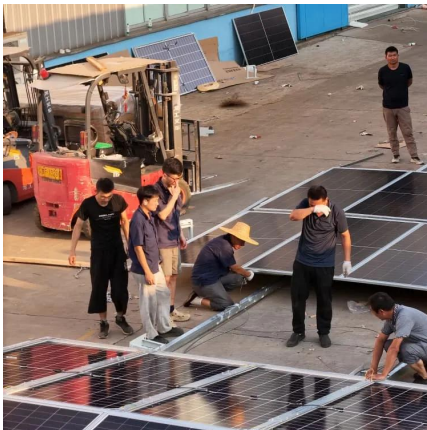


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