

# **Base station site planning in Tunisia**





## Overview

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Why do we need additional base stations?

Hence, additional base stations (BSs) may be needed to satisfy the new demand. This case addresses the application of dynamic permanent demand for service such as establishing a new residential area over several time periods where new demand clusters are created in each time period as the residential area expands.

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.

How to optimize the location of BSS in wireless communication networks?

Some studies optimize the location of BSs in wireless communication networks through exact solution approaches such as mixed integer linear programs (MILP) and algorithmic approaches , , .

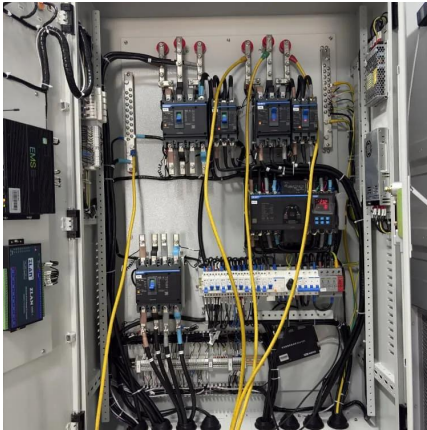
Can BSS serve mobile users in a given geographical area?

The proposed optimization model for locating BSs to serve mobile users in a given geographical area is presented in Section 3. In Section 4, experimental results are provided for two scenarios that cover Cases A and B. Finally, concluding remarks with possible future extensions are provided in Section 5.



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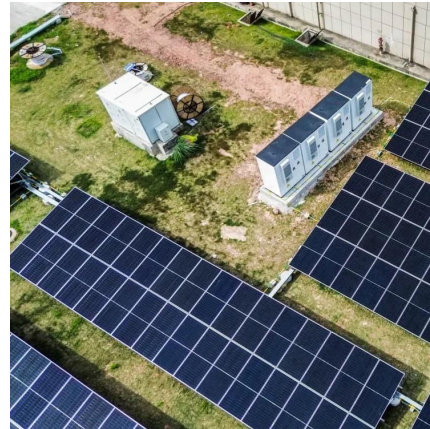
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the UMTS ...



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Jan 2, 2014 · 1. Acknowledgements The material in this report was compiled by the GSM Association (GSMA) staff and updated with information from members of the GSMA Europe ...



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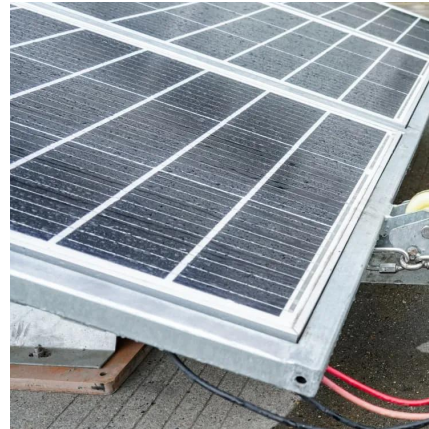
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