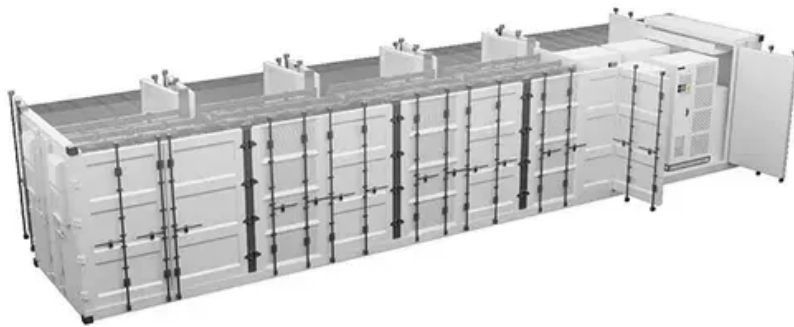


Are the wind power conditions for Saudi Arabia s communication base stations good



Overview

We investigate the use of wind turbine-mounted base stations (WTBSs) as a cost-effective solution for regions with high wind energy potential, since it could replace or even outperform current solutions requiring additional cell towers (CTs), satellites, or aerial base. We investigate the use of wind turbine-mounted base stations (WTBSs) as a cost-effective solution for regions with high wind energy potential, since it could replace or even outperform current solutions requiring additional cell towers (CTs), satellites, or aerial base. The Saudi Arabia communication infrastructure sector is witnessing a significant transformation driven by the rapid expansion of digital connectivity and the increasing deployment of communication base stations across urban and rural regions. This evolution presents substantial opportunities for. Al-Baha region, located in Saudi Arabia, is one of the main tourism and lei-sure areas. The importance of this study is to as-sess the possibility of building a wind farm in Al-Baha and to. Abstract—Despite global connectivity is one of the main requirements for future generations of wireless networks driven by the United Nation's Sustainable Development Goals (SDGs), telecommunication (telecom) providers are economically discour-aged from investing in sparsely populated areas, such. Saudi Arabia's keen interest in wind energy is rapidly shaping into tan-gible progress through a series of transformative initiatives and significant projects to diversify its energy mix and contribute to its sustainable development. A comprehensive feasibility analysis is performed based on technical, economic, and greenhouse gas (GHG) emission reduction factors. When Saudi Arabia announced its National Renewable Energy Program, or NREP, in 2016.

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