Kenya network base station communication is unstable

Why do cellular networks need a base transceiver station?
The widespread deployment of cellular networks has improved communication access,driving economic growth and enhancing social connections across diverse regions. Base Transceiver Stations (BTSs),are foundational to mobile networks but are vulnerable to power failures,disrupting service delivery and causing user inconvenience.

Do power failures affect BTS sites?
In today's dynamic world,BTS sites function as the backbone of mobile networks that provide communication services for millions of users. However,in practice,power failures can disrupt the critical operation of BTS siteswhich impact network reliability and user experience.

Why do mobile network operators face frequent power supply failures at BTS sites?
Mobile network operators (MNOs) face frequent power supply failures at BTS sites,leading to revenue loss and increased operational expenditure (OPEX). Despite their critical role,BTSs face significant operational challenges due to vulnerabilities in their power supply. These disruptions can arise from various external and internal sources .

How do BS-relay stations work?
The algorithm takes into account network throughput and coverage to achieve BS-Relay Station deployment. From the perspective of energy and the environment,the power that a BS consumes is proportional to the maximum region that the BS can serve. Cost minimization is an issue that needs to be considered in BS construction.

Furthermore, because radio communication between base stations and users is crucial, all computations in a planning tool are based on the use of radio-propagation predictions.

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