

Ghana base station power supply





Overview

How much electricity does Ghana use?

It is estimated (2012) that the electricity grid in Ghana services about 74% of the population (60% in rural areas). However, over 80 % of the domestic electricity supply is consumed in the cities and urban towns. Ghana's electricity supply is mainly obtained from hydro and fossil fuels and generation capacity is estimated at 2800 Megawatts.

Why is electricity a problem in Ghana?

On the strength of the mining and new oil and gas sectors, coupled with a growing population (particularly in the middle class), the demand for electricity power in Ghana has outpacing supply and as a result in recent years there has been an increased frequency in power outages and deliberate load shedding and planned voltage brownouts.

What are Ghana's power supply challenges?

Power supply challenges (including instability, low voltage, and blackouts), known as 'Dumsor', have plagued Ghana for years, and remain significant concerns for both industrial and residential customers. In just the first half of 2021, multiple major outages have occurred (see Annex), caused by three main issues: Tripped transmission lines.

Why is Ghana relocating its Ameri power plant to Kumasi?

At least 9 major outages were related to inadequate fuel stock, gas pressure dips, or other interruptions in fuel supply. Ghana's government is taking several measures to address these issues, including relocating the 250MW Ameri Power Plant to Kumasi and completing a series of expansions and upgrades to the transmission network.

How can Ghana improve stability in the near-term?

Ghana's government is taking several measures to address these issues,



including relocating the 250MW Ameri Power Plant to Kumasi and completing a series of expansions and upgrades to the transmission network. While these should help, the government should consider several additional actions to improve stability in the near term:.

What is the mobile telecommunication market in Ghana?

The mobile telecommunication market in Ghana has grown significantly within the past few years. It currently has a voice subscription base of 35 million and a data subscription base of 18 million. The total number of base transceiver stations and Node Bs is 7502 and 4996 respectively.



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