



A-Core Container

Indonesia 5G communication base station wind and solar hybrid 215KWh



IP65/IP55 OUTDOOR CABINET

OUTDOOR MODULE CABINET

OUTDOOR 5G BASE STATION
CABINET

WATERPROOF



Overview

Does Indonesia have a 5G network?

In Indonesia, 5G rollout is progressing, with commercial services launched by Telkomsel, Indosat Ooredoo and XL Axiata since 2021, utilising existing spectrum holdings in the 1800 MHz, 2.1 GHz and 2.3 GHz bands. As of the end of 2024, 5G networks covered 26.3% of Indonesia's population, or around 15.7 million 5G connections.

Does Indonesia need 5G spectrum resources?

Much work must be done to ensure adequate spectrum resources to support 5G development in Indonesia, especially in the crucial mid-band range (1-7 GHz). The GSMA estimates that mid-band 5G spectrum will drive an increase of more than \$610 billion in global GDP in 2030, almost 65% of the overall socio-economic value generated by 5G.

How many GHz will Indonesia use for 5G?

Plan for the use of 4.8 GHz and the entire upper 6 GHz (6.425-7.125 GHz)47 bands to support further development of 5G. The additional 700 MHz in the upper 6 GHz band will go a long way to addressing Indonesia's mid-band needs.

What is the new perspective in sustainable 5G networks?

The new perspective in sustainable 5G networks may lie in determining a solution for the optimal assessment of renewable energy sources for SCBS, the development of a system that enables the efficient dispatch of surplus energy among SCBSs and the designing of efficient energy flow control algorithms.

How many MHz of mobile spectrum is assigned in Indonesia?

Currently, 452 MHz of mobile spectrum is assigned in Indonesia, as shown below. In the mid-band range, only 360 MHz across the 1800 MHz, 2.1 GHz

and 2.3 GHz bands has been assigned, compared to an average of 850 MHz in the Asia-Pacific region today.

How will a 5G base station affect energy costs?

According to the mobile telephone network (MTN), which is a multinational mobile telecommunications company, report (Walker, 2020), the dense layer of small cell and more antennas requirements will cause energy costs to grow because of up to twice or more power consumption of a 5G base station than the power of a 4G base station.

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