

Indonesia's 5G base stations are all 12MWh

How many 5G base stations are there in Indonesia?

Most 5G deployments are still confined to urban centers, leaving large parts of Indonesia's vast geography underserved. For example, Telkomsel has launched only 2,200 5G base stations in 56 cities, out of a total footprint of more than 240,000 base stations. Despite the focus on 5G, Indonesia remains a 4G-first market.

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.

What is the new technical standard for LTE & 5G in Indonesia?

Indonesia's Ministry of Communication and Informatics (SDPPI) has introduced significant updates to the technical standards governing LTE and 5G networks with the new technical standard NOMOR 352 TAHUN 2024.

What frequencies are used in 5G in Indonesia?

Frequency Spectrum: in Indonesia, the 5G core spectrum band of 3.5 GHz (i.e. 3.3 - 3.8 GHz) and frequencies up to 4.2 GHz are currently used for fixed satellite service (FSS) applications. FSS applications include TV broadcasting, banking communications, and Internet connectivity.

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.

Why is 5G a problem in Indonesia?

Spectrum constraints. Indonesia's mobile ecosystem is constrained by insufficient and fragmented mid-band spectrum*, which is essential for 5G's optimal performance: Only 360 MHz of mid-band spectrum is currently assigned for mobile use--less than half of the APAC average of 850 MHz.

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