

# **Thimphu 2MWH Communication 5g Base Station**





## Overview

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What is a 5G NR base station?

In 5G NR, the Base Station (BS) is referred to as a gNB. These 5G NR BS operate in two frequency ranges: FR1 and FR2. (././assets/5G-NR-BS-Channel-Bandwidths.jpg). Table 1: Frequency Ranges 5G NR Base Stations must support specific channel bandwidths at different subcarrier spacings. Table 2: BS Channel Bandwidths.

What is 5G NR BS?

5G NR (New Radio) is the latest wireless cellular standard, succeeding LTE/LTE-A. It adheres to 3GPP specifications from Release 15 onwards. In 5G NR, the Base Station (BS) is referred to as a gNB. These 5G NR BS operate in two frequency ranges: FR1 and FR2. (././assets/5G-NR-BS-Channel-Bandwidths.jpg). Table 1: Frequency Ranges.

How to evaluate a 5G energy-optimised network?

To properly examine an energy-optimised network, it is very crucial to select the most suitable EE metric for 5G networks. EE is the ratio of transmitted bits for every joule of energy expended. Therefore, while measuring it, different perspectives need to be considered such as from the network or user's point of view.

What is a 5G Brain Center?

Often referred to as the brain center, this includes: Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System



## Thimphu 2MWH Communication 5g Base Station

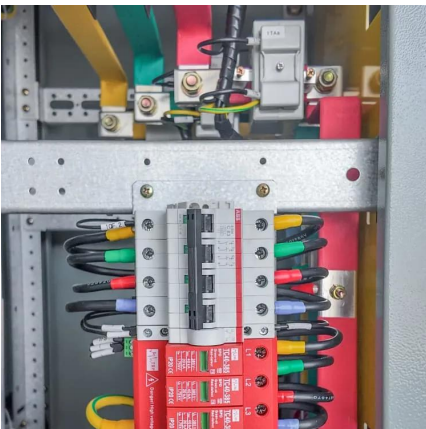
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$C_{C1} \leq 2 \max\{C_{max}, E_{Pmax}\}$  (11) where  $C_{max}$  is the investment cost limit, and  $E_{Pmax}$  is the energy multiplier of energy storage battery. 2.3 ...

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Understanding these base stations helps network operators and businesses optimize 5G deployment strategies to meet diverse connectivity needs. As 5G continues to evolve, advancements in base ...

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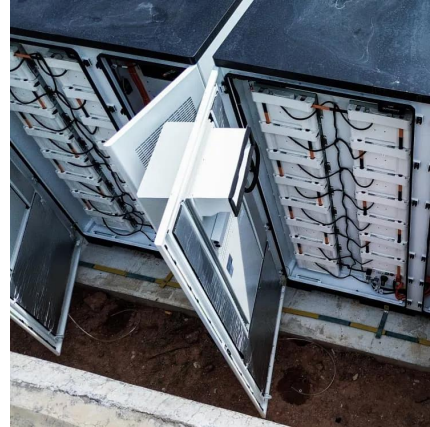




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