
Brazzaville 5G hybrid energy base station

How can we improve the energy efficiency of 5G networks?

To improve the energy efficiency of 5G networks, it is imperative to develop sophisticated models that accurately reflect the influence of base station (BS) attributes and operational conditions on energy usage.

What is 5G radio technology?

Abstract--The introduction of fifth-generation (5G) radio technology has revolutionized communications, bringing unprecedented automation, capacity, connectivity, and ultra-fast, reliable communications. However, this technological leap comes with (BSs), which account for over 70% of the network's energy usage.

What are base station features?

Base Station features: These include hardware attributes and configuration details of the BS, which are key in predicting energy consumption. Features in this category are the number of antennas (Antennas), the transmission mode (Mode), the BSID, and the type of radio unit (RUType).

What is the 5G radio unit dataset?

II. 5G RADIO UNIT DATASET In this section, we introduce the 5G Radio Unit Dataset. The dataset used in our study comprised 102,705 hourly measurements collected over a period of 8 days. Each sample encapsulates a variety of features, classified into four main categories:

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