

SolarInnovate Energy Solutions

Mobile communication green base station installation fee



Overview

What is a green base station solution?

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. Using SDR-based architecture and distributed base stations is a different approach to traditional multiband multimode network construction.

Does Ericsson have a 'green' base station design?

But the large equipment vendors too have got in on the act. Ericsson made a point of its green credentials at the recent Mobile World Congress, and launched a "green" base station design back in 2007. Its commitment extends from materials used in base station build, to the design and efficiency of the base stations themselves.

What should a base station do in a wireless communications network?

In a wireless communications network, the base station should maintain high-quality coverage. It should also have the potential for upgrade or evolution. As network traffic increases, power consumption increases proportionally to the number of base stations. However, reducing the number of base stations may degrade network quality.

How many base stations are there in a mobile network?

(2) Mobile network operators (MNOs) will, from time to time, adjust their radio base station (base station) settings having regard to their own network planning and actual needs. In the past three years, MNOs installed 5 900, 7 000 and 4 800 new base stations and removed 340, 2 200 and 150 base stations respectively.

Why is a base station important?

Environmental protection is a global concern, and for telecom operators and equipment vendors worldwide, developing green, energy-saving technologies

for wireless communications is a priority. A base station is an important element of a wireless communications network and often the main focus of power saving in the whole network.

How much power does a base station use?

In the old network, one base station used three cabinets for GSM900, GSM1800, and UMTS2100 devices. Its overall power consumption was 4280 W. After the old base station was swapped with SDR, UMTS900 system was included and power consumption decreased by 57%.

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