

ContainerPower Energy Solutions

Energy layout of communication base stations in Italy



Overview

Are base transceiver stations monitored in central Italy?

This paper reports on a monitoring campaign performed on six Base Transceiver Stations (BSs) located central Italy, with different technology, typology and technical characteristics.

Can we measure energy consumption in central Italy?

The measurement campaign was performed in early autumn, and these researchers consider it valid to simulate the annual average environmental conditions (ambient temperature, solar radiation and telephone traffic) for Central Italy; it is possible to calculate annual energy consumption from daily experimental results.

What are the technical characteristics of BCC stations?

Technical characteristics of the stations. BCC data H timeslot Shelter: cabins made of aluminum and polyurethane foam containing the transmission equipment (housed in special boxes), air conditioning system and all that is needed for the correct functioning of the BS. Room: buildings containing the same equipment as a shelter.

What is the impact of base stations?

The impact of the Base Stations comes from the combination of the power consumption of the equipment itself (up to 1500 Watts for a nowadays macro base station) multiplied by the number of deployed sites in a commercial network (e.g. more than 12000 in UK for a single operator).

Can ta indicators be used to compare energy performance of BSS?

There is an ongoing discussion as to whether these indicators can actually allow to compare energy performance of BSs that differ in type and technology. unit of TA corresponds to 550m. time required for a signal to reach the radio base station from a mobile phone. Each.

What are the environmental parameters of a base transceiver system?

Energy consumption and environmental parameters of a base transceiver system have been monitored. Energy consumption is related to the air conditioning functions and to the load of telephone traffic. Energy saving parameters can be estimated by a simulation Monte Carlo method.

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