

The cost of building a green communication base station

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 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).

How to estimate the cost of building and operating a cellular network?

A simple method for estimating the costs of building and operating a cellular mobile network is proposed. Using the empirical data from a third generation mobile system (WCDMA), it is shown that the cost is driven by different factors depending on the characteristics of the base stations deployed.

In conclusion, building and maintaining a communication base station involves significant initial setup costs and ongoing maintenance expenses. These costs can vary widely depending on ...

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