

SolarTech Power Solutions

External power access to North Macedonia communication base station



Overview

What's going on with North Macedonia's High-Voltage network?

The two transmission system operators intend to jointly upgrade the high-voltage network. The emphasis is on a strategic project for a 400 kV interconnection line from Tetovo to Prizren. The endeavor aligns with the European Union's energy transition goals by 2050, North Macedonia's TSO said.

Does North Macedonia and Kosovo need a double transmission capacity?

North Macedonia and Kosovo* have only one interconnection now, of 220 kV. According to ENTSO-E, Southeastern Europe needs to at least double transmission capacities and, in some cases, increase them even more than that, MEPSO stressed.

Why do we need strong interconnections in North Macedonia & Kosovo?

Strong interconnections are essential for the integration of the electricity systems and markets in the region with the EU, through market coupling. Together with Albania and Greece, North Macedonia and Kosovo* are part of one such regional project, which has been suffering delays.

How can the electronic industry reduce power requirements for base stations?

As a result, the electronic industry is exploring new methods to reduce the power requirements for the electronic equipment used in the base stations. The first approach is to make the base stations more tolerant to heat which will then require less power for air conditioning.

How much power does a cellular base station use?

A cellular base station can use anywhere from 1 to 5 kW power per hour depending upon the number of transceivers attached to the base station, the age of cell towers, and energy needed for air conditioning. Cellular base stations use power without any interruption and also needs maintenance.

How will cellular base stations affect global power consumption?

A recent study showed that global power consumption for cellular base stations will decline due to more efficient equipment and networks by nearly 3% annually while the cost of electricity powering these base stations will rise by 9% annually.

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