

All communication base stations in Khartoum are wind powered

Abstract- The fast development of mobile communication systems all over the world has caused the appearance of many hundreds of mobile telephone base stations in every municipality. Mobile base ...

In this research, we presented the results of the statistical analysis performed on wind speed and direction data collected by a weather mast station installed at the NERC, Soba, Khartoum.

Human beings are persistently exposed to RF radiation from mobile phones and their base stations. The current study aimed at classifying and characterizing the exposure to RF radiation from the mobile ...

Sudan has advanced a major step in developing its first wind power plant with the arrival of the wind turbine to be located in Dongola in the northern state, as part of the UNDP's wind energy project in ...

Wind energy remains underutilized, with a single 0.8-MW wind turbine connected to the grid, although a 100-MW wind power plant is under construction. The government envisions 1550 MW of wind ...

Installations of telecommunications base stations necessary to address the surging demand for new services are traditionally powered by ...

Mobile phone base stations are known as base transceiver stations or telecommunications structures. They are low-power, multi-channel two-way radios.

A typical mobile communication system consists of base stations, switch, core network, and subscriber database. The base stations communicate with mobile handsets through RF radiation (Pattnaik and ...

GSM900 MeasurementsGSM1800 MeasurementsUMTS MeasurementsGeneral Trend and Total RF ExposureCompliance with ICNIRP Guidelines and General SafetyExposure of the general public to RF from base stations is compared with the reference levels for exposure established by ICNIRP (ICNIRP 2020). These reference levels are calculated as per Table 5, for frequencies ranging (> 400 -2000 MHz, i.e., for GSM900 and GSM1800) while for UMTS, the reference level is set at 10 W m⁻². Since all measurements we...See more on link.springer .b_imgcap_altitle p strong,.b_imgcap_altitle .b_factrow strong{color:#767676}#b_results .b_imgcap_altitle{line-height:22px}.b_imgcap_altitle{display:flex;flex-direction:row-reverse;gap:var(--mai-smc-padding-card-default)}.b_imgcap_altitle .b_imgcap_img{flex-shrink:0;display:flex;flex-direction:column}.b_imgcap_altitle .b_imgcap_main{min-width:0;flex:1}.b_imgcap_altitle .b_imgcap_img>div,.b_imgcap_altitle .b_imgcap_img a{display:flex}.b_imgcap_altitle .b_imgcap_img img{border-radius:var(--mai-smc-corner-card-default)}.b_hList img{display:block}.b_imagePair ner

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Installations of telecommunications base stations necessary to address the surging demand for new services are traditionally powered by conventional energy sources, which results in ...

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