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Title: The impact of mobile 5G base stations on power lines

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This paper proposes an analysis method of an electromagnetic disturbance at the antenna feeder port of a 5G base station under the condition of switching operation of a substation.

This report on bringing 5G to power explores how the shift to renewables creates opportunities and challenges through connected power distribution grids.

This paper proposes a power control algorithm based on energy efficiency, which combines cell breathing technology and base station sleep technology to reduce base station energy consumption ...

Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic importance of communication base ...

The network power efficiency with the consideration of propagation environment and network constraints is investigated to identify the energy-efficient architecture for the 5G mobile ...

Importantly, this study item indicates that new 5G power consumption models are needed to accurately develop and optimize new energy saving solutions, while also considering the complexity emerging ...

Power consumption models for base stations are briefly discussed as part of the development of a model for life cycle assessment. An overview of relevant base station power ...

In this paper, a multi-objective interval collaborative planning method for virtual power plants and distribution networks is proposed.

Here we develop a large-scale data-driven framework to quantitatively assess the carbon emissions of 5G mobile networks in China, where over 60% of the global 5G base stations are implemented.

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