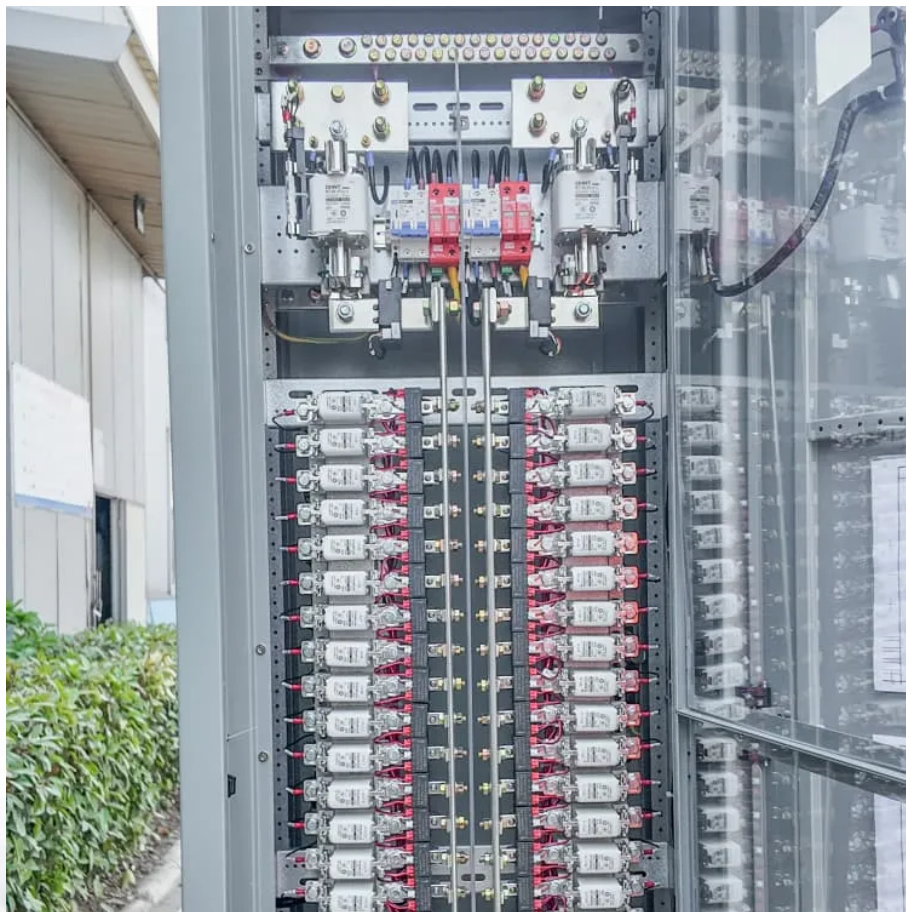


How to build a green communication base station project





Overview

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What is a green base station solution?

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. Using SDR-based architecture and distributed base stations is a different approach to traditional multiband multimode network construction.

What should a base station do in a wireless communications network?

In a wireless communications network, the base station should maintain high-quality coverage. It should also have the potential for upgrade or evolution. As network traffic increases, power consumption increases proportionally to the number of base stations. However, reducing the number of base stations may degrade network quality.

Why is a base station important?

Environmental protection is a global concern, and for telecom operators and equipment vendors worldwide, developing green, energy-saving technologies for wireless communications is a priority. A base station is an important element of a wireless communications network and often the main focus of power saving in the whole network.

What is the mobile VCE Green Radio Project?

The Mobile VCE Green Radio project aims at developing new green radio architectures and radio techniques to reduce the overall energy consumption.

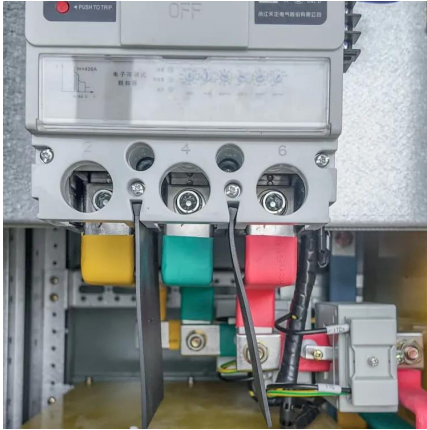


Who wrote Green radio communication networks?

Hossain, Ekram, 1971- Green radio communication networks / Ekram Hossain, Vijay K. Bhargava, Gerhard P. Fettweis. Includes bibliographical references and index. ISBN 978-1-107-01754-2 (hardback) Wireless communication systems - Environmental aspects. systems - Energy consumption. II. Fettweis, Gerhard P. III. Title.



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The main goal of designing green base stations is to save energy and reduce power consumption while guaranteeing user service and coverage and ensuring the base station's capability for ...

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