



# Independent communication green base station



## Overview

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. An uninterrupted automatic change-over switch is adopted to realize automatic switching of power supply through lithium iron phosphate. To rapidly restore damaged communication systems, we propose a UAV-based mobile base station equipped with Public Safety LTE (PS-LTE) technology to provide standalone communication capabilities. The proposed system includes PS-LTE functionalities, mission-critical push-to-talk, proximity-based. To cope with the problem of no or difficult grid access for base stations, and in line with the policy trend of energy saving and emission reduction, Huijue Group has launched an innovative base station energy solution. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the last 10 years of BSs to guarantee their future evolution [ 2, 3 ]. For this research, we recommend further in-dep base stations before and after the upgrade.



## Article Content

### An Independent UAV-Based Mobile Base Station

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results provide a sufficient data rate to make an independent mobile ...

### Independent communication green base station

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 ...

### Communication green base station energy storage material

EK Solar Energy provides professional base station energy storage solutions, combined with high-efficiency photovoltaic energy storage technology, to provide stable and reliable green energy ...

### Energy Storage Equipment, Energy storage solutions, Lithium battery ...

To cope with the problem of no or difficult grid access for base stations, and in line with the policy trend of energy saving and emission ...

### The Green Base Station | VDE Conference Publication | IEEE Xplore

The application of these building blocks can be adapted individually to the local environmental conditions and requirements. These technologies also offer the possibility to build up ...

### Communication green base station established

Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the ...

### An Independent UAV-Based Mobile Base Station

The experimental results provide a sufficient data rate to make an independent mobile base station to restore communication infrastructure in areas that experienced environmental disasters.

CN105515498A

The cost of the independent power supply system is greatly reduced, a durable reversible cycle is achieved, and the performance is stable. A base station is not powered-off and can be...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.lup.edu.pl>

Email: [info@lup.edu.pl](mailto:info@lup.edu.pl)

Phone: +48 512 478 936

Address: ul. Marszałkowska 10, 00-001 Warsaw, Poland

This document is for informational purposes only. Specifications subject to change without notice.

