

Illegal use of electricity by communication base stations





Overview

Why are electric power stations considered military objectives?

Electric power stations are generally recognized to be of sufficient importance to a State's capacity to meet its wartime needs of communication, transport, and industry so as usually to qualify as military objectives during armed conflicts.

Can repurposed EV batteries be used in communication base stations?

Among the potential applications of repurposed EV LIBs, the use of these batteries in communication base stations (CBSs) is one of the most promising candidates owing to the large-scale onsite energy storage demand (Heymans et al., 2014; Sathre et al., 2015).

What is the impact of base stations?

The impact of the Base Stations comes from the combination of the power consumption of the equipment itself (up to 1500 Watts for a nowadays macro base station) multiplied by the number of deployed sites in a commercial network (e.g. more than 12000 in UK for a single operator).

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

Is attacking the electricity infrastructure used by civilians a war crime?

Is attacking the electricity infrastructure used by civilians always a war crime as the EU president appears to suggest?

Actually, an attack against infrastructure used by civilians might be a war



crime, but not necessarily.

Are electric power stations important?

According to the DoD Law of War Manual (§ 5.6.8.5), electric power stations are generally recognized as military objectives during armed conflicts. They are considered important to a state's wartime needs in communication, transport, and industry.



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Is attacking the electricity infrastructure used by civilians always a

"Sometimes, "dual-use" is used to describe objects that are used by both the armed forces and the civilian population, such as power stations or communications facilities.

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Trade-Off Between Renewable Energy Utilizing and Communication ...

The ultra-dense deployment of base stations (BSs) results in significant energy costs, while the increasing use of fluctuating renewable energy sources (RESs) threatens the ...

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Energy-Efficient Base Stations , part of Green Communications

With the explosion of mobile Internet applications and the subsequent exponential increase of wireless data traffic, the energy consumption of cellular networks has rapidly caught the ...

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[Optimization of Communication Base Station Battery ...](#)

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This



work studies the optimization of ...

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Energy-Efficient Base Stations , part of Green Communications

This chapter aims a providing a survey on the Base Stations functions and architectures, their energy consumption at component level, their possible improvements and the major problems ...

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Environmental-economic analysis of the secondary use of electric

This study examines the environmental and economic feasibility of using repurposed spent electric vehicle (EV) lithium-ion batteries (LIBs) in the ESS of ...

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Energy-Efficient Base Station Deployment in Heterogeneous Communication

With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. Deploying micro base ...

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(PDF) Dispatching strategy of base station backup power supply

With the mass construction of 5G base stations, the backup batteries of base stations remain idle for most of the time. It is necessary to explore these massive 5G base ...

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How dangerous are mobile phones, transmission masts, and electricity

Electrical power and mobile communications deliver enormous benefit to society, but there are concerns whether the electric and magnetic field (EMF) emissions associated with the delivery ...

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Environmental feasibility of secondary use of electric vehicle ...

Repurposing spent batteries in communication base stations (CBSs) is a promising option to dispose massive spent lithium-ion batteries (LIBs) from electric vehicles (EVs), yet ...

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Anti-Electricity and Electric Transmission Lines/Materials Pilferage

The Act penalizes the illegal use of electricity which may be committed through any of the following acts: The tapping or connection to any line, electric service wires. Tapping ...

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On-site Energy Utilization Evaluation of Telecommunication ...

Since the sites we visited were all outdoors, there wasn't much more equipment consuming the energy besides the radio units and the base band units, therefore we constructed regression ...

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How dangerous are mobile phones, transmission masts, and ...

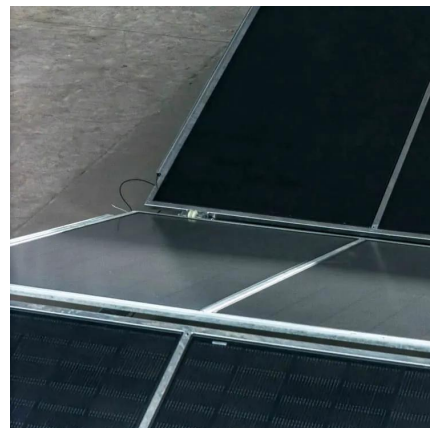
Electrical power and mobile communications deliver enormous benefit to society, but there are concerns whether the electric and magnetic field (EMF) emissions associated with the delivery ...

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[DETECTION SYSTEM OF ELECTRICITY THEFT AT ...](#)

However, the distance between the meter, which is usually located at distribution poles, and the service equipment, which is located inside the residential building, makes the service ...

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[Mobile Phone Base Stations EMF / Health Fact Pack](#)

In this instance, the base stations need to be closer together to provide increased capacity rather than coverage, and as a result of their proximity to one another, each base station needs to ...

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