



How does Ukraine's outdoor communication battery cabinet generate power for base stations

How many high-capacity lithium-ion batteries are there in Ukraine?

High-capacity lithium-ion batteries mean the base stations, Shchyhol said, "should have reserve power sources for at least three days." And they can recharge themselves when the power comes back online. Two of the biggest telecommunications firms in Ukraine have, between them, already sourced and installed 22,000 new high-capacity batteries.

Why is Ukraine using high-capacity batteries?

With Russia regularly knocking out Ukraine's power grid, the country has turned to high-capacity batteries to keep it connected to the world--and itself. The streets of Kyiv during a blackout last year. Photograph: Mykhaylo Palinchak/Getty Images

Should Kyiv have better batteries?

So Kyiv has turned to a simple solution: better batteries. High-capacity lithium-ion batteries mean the base stations, Shchyhol said, "should have reserve power sources for at least three days." And they can recharge themselves when the power comes back online.

Can Ukrainian telecommunications companies recharge themselves if power comes back online?

And they can recharge themselves when the power comes back online. Two of the biggest telecommunications firms in Ukraine have, between them, already sourced and installed 22,000 new high-capacity batteries. Shchyhol said his ministry has identified another 8,000 base stations that need to become "energy independent."

What happened to Ukraine's power grid?

But Ukraine hasn't just experienced a few short outages. Since October, it has faced an onslaught of attacks against its power grid, causing long periods of darkness. Ukraine responded by outfitting around 5,000 base stations with better generators.

How do mobile base stations work?

Mobile base stations are normally hooked up to the power grid, using that electricity to amplify the cell signal to the broader area. During a power outage, an on-site battery kicks in to keep the tower running. If the outage persists, a crew could arrive with a diesel generator to keep powering the tower.

Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, ...



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