

**The government privately built  
a solar container  
communication station inverter  
and connected it to the grid**



## Overview

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Are Chinese-made solar inverters a supply-chain vulnerability?

Leading renewable energy operators worldwide are confronting a disturbing supply-chain vulnerability: undocumented communication modules found in Chinese-made solar inverters and batteries.

Where are power inverters made?

Power inverters, which are predominantly produced in China, are used throughout the world to connect solar panels and wind turbines to electricity grids. Credit: Wikimedia Commons© ZME Science.

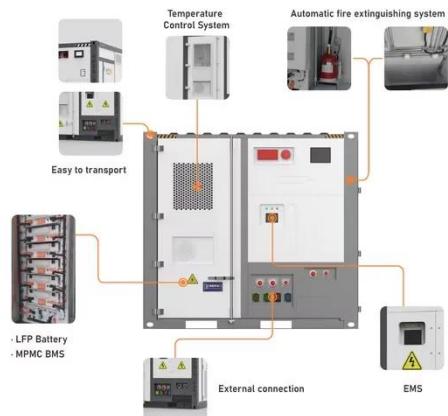
Are cellular radios soldered to inverter & battery circuit boards?

Confirmed Findings: On , Reuters reported that U.S. energy officials and third-party hardware analysts uncovered cellular radios and other comms modules directly soldered onto inverter and battery circuit boards, features absent from all publicly available specifications (Reuters, May 14 2025).

How do power inverters work?

Power inverters convert the direct current produced by solar panels and wind turbines into the alternating current used by the grid. They're also embedded in home batteries, electric vehicle chargers, and even heat pumps. Because they often require remote updates and maintenance, inverters are designed to be connected to the web.

## The government privately built a solar container communication sta



### A Ghost in the Machine: Chinese FIS Covert Collection Devices in Solar

National security operatives have found communication devices embedded within Chinese-manufactured solar power inverters and batteries, again raising significant concerns about the ...

## Rogue Communication Devices Found in Chinese Solar Power Inverters

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### A Ghost in the Machine: Chinese FIS Covert ...

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## Ghost in the machine? Rogue

## communication ...

While inverters are built to allow remote access for updates and maintenance, the utility companies that use them typically install firewalls ...



## U.S. Reassesses Chinese-Made Solar

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U.S. energy officials are reviewing security risks posed by Chinese-made components in renewable energy systems after ...

## Shipping Container Solar Systems in Remote Locations: An ...

What Are Shipping Container Solar Systems? Understanding the Basics A shipping container solar system is a modular, portable power station built inside a standard steel ...



## U.S. discovers illegal devices in Chinese solar inverters, ...

Upon inspecting inverters connected to the power grid, U.S. energy authorities found communication devices not mentioned in product documentation in

some Chinese solar ...



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## U.S. Reassesses Chinese-Made Solar Equipment After Hidden ...

U.S. energy officials are reviewing security risks posed by Chinese-made components in renewable energy systems after discovering hidden communication devices in ...

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## Ghost in the machine? Rogue communication devices found ...

By Sarah McFarlane LONDON (Reuters)  
-U.S. energy officials are reassessing the risk posed by Chinese-made devices that play a critical role in renewable energy

...



## Undocumented Communication Components Discovered In Chinese Inverters

Undocumented communication devices have been discovered inside solar inverters and batteries manufactured in China, according to two sources familiar with the ...

## Hidden Communication Devices Found in ...

A team of engineers in the U.S. took apart a solar power inverter. It looked like any other--sleek, compact, humming with the ...



## Chinese Inverter Backdoors: A Renewable Energy ...

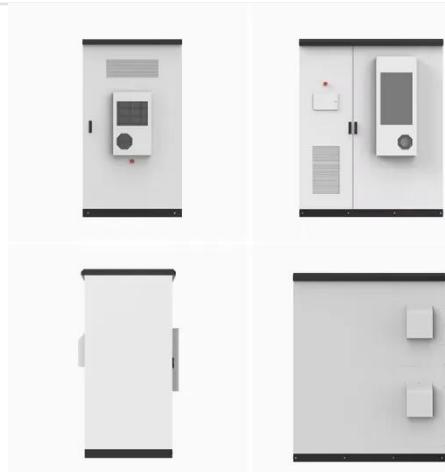
Supply Chain Security in Energy: Assessing the "Ghost in the Machine" RiskAn in-depth analysis for executive



leadership and board members on undisclosed communication ...

## Chinese Inverter Backdoors: A Renewable ...

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Assessing the "Ghost in the Machine"  
RiskAn in-depth analysis for executive leadership and board ...



## Ghost in the machine? Rogue communication devices found ...

While inverters are built to allow remote access for updates and maintenance, the utility companies that use them typically install firewalls to prevent direct communication back ...

## Hidden Communication Devices Found in Chinese-Made Inverters ...

A team of engineers in the U.S. took apart a solar power inverter. It looked like any other--sleek, compact, humming with the promise of sustainability. But

buried deep inside, ...



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