

## SolarTech Power Solutions

# Huawei solar inverter regulation



## Overview

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Could Huawei solar inverters be a threat to the power grid?

The debate mirrors the 2019 US ban on Huawei solar inverters, which cited potential remote control threats to the power grid, particularly during wartime.

Why did the US ban on Huawei inverters?

The 2019 US ban on Huawei inverters was driven by fears that adversaries could remotely disrupt critical applications like home electricity and electric vehicle charging. Although Huawei has exited the US market, other Chinese manufacturers have filled the gap, offering cost-competitive products that continue to dominate globally.

Are China-made photovoltaic inverters a cybersecurity risk?

Europe is grappling with growing concerns over the cybersecurity risks posed by Chinese-made photovoltaic inverters, prompting discussions about restricting high-risk suppliers from connecting to its power systems.

Are Chinese power inverters a security risk?

US energy officials are reassessing the security risks posed by Chinese-made power inverters and batteries—key components in renewable energy infrastructure—following the discovery of unauthorised communication devices embedded within them, two sources familiar with the matter said.

Could Huawei shut down Europe's Solar Grid?

Huawei, designated a risky vendor by the Commission, accounts for over 115 GW of the solar inverter market share in Europe. It is one of six Chinese vendors that collectively control over 219 GW. Given that Spain's grid collapsed after a 2.2 GW drop, these vendors could remotely shut down Europe's grid.

## Should Chinese inverters be banned?

Critics argue that banning Chinese inverters could raise costs and disrupt supply chains, as European alternatives are 30-50% more expensive. The European Commission is assessing cybersecurity risks in the solar value chain, with the ESMC advocating for measures like Lithuania's 2023 ban on Chinese inverters.

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