**PIENAAR ENERGY (PTY) LTD**

# India s telesolar-powered communication cabinet inverters connected to the grid

## Overview

As more than 80% of rooftop solar inverters used in India are made in China, India has moved to shield them from cyber risks by mandating to connect such devices to a national software platform hosted on servers in India that will be managed by an Indian government. As more than 80% of rooftop solar inverters used in India are made in China, India has moved to shield them from cyber risks by mandating to connect such devices to a national software platform hosted on servers in India that will be managed by an Indian government. India's decision to tighten inverter protocols and secure rooftop solar data under national jurisdiction is a critical step toward reinforcing its energy sovereignty. With ambitious rooftop solar targets already underway, these measures help ensure that growth in clean energy does not come at the. India's renewable energy ministry has issued draft rules requiring all solar inverters installed under its 30 GW rooftop program to link directly to national servers, aiming to improve grid stability and cybersecurity. The Office Memorandum, dated J, marks a significant shift in how India plans to govern its.

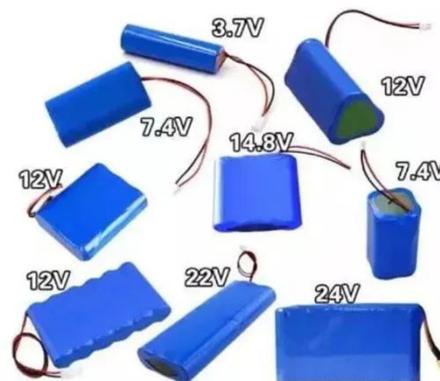# India s telesolar-powered communication cabinet inverters connecte



## MNRE Issues Directive to Secure Rooftop Solar Data: Inverter

It requires all inverter communication devices deployed under the PM Surya Ghar: Muft Bijli Yojana (PMSG: MBY) to route operational data exclusively through servers located within India.

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## India mandates rooftop monitoring and inverter integration for 30 ...

India's renewable energy ministry has issued draft rules requiring all solar inverters installed under its 30 GW rooftop program to link directly to national servers, aiming to improve

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## How India's move to secure rooftop solar data with stricter inverter

Inverters and their communication modules are key vulnerable points. If compromised, they can be manipulated to disrupt generation or destabilize grid operations.

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## Govt Tightens Solar Inverter Rules Amid China Cyber Fears

The ministry warned that inverter communication modules transmitting data to servers outside India pose risks of unauthorised control and could compromise national energy sovereignty ...

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## MNRE issues new mandates for inverter communication under PM ...

This decision follows concerns that inverter communication devices were transmitting data to servers located outside India, raising the potential risk of grid disruptions. All such devices must ...

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## India Moves to Secure Rooftop Solar Data with Stricter Inverter

India is moving to keep rooftop solar telemetry on India-based servers to protect data leakage, as the Ministry of New and Renewable Energy (MNRE) advances a national, vendor-neutral ...

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## India moves to shield power grids from solar equipment

**malware**

Suppliers of inverters -- devices that turn direct current into electricity for homes and the grid -- will need to connect the machines to a national software platform, hosted on servers in

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## Govt mandates all rooftop solar inverters under PM scheme to connect ...

The ministry has said integration of such a large number of RTS plants introduces grid stability and cybersecurity challenges, especially due to inverters transmitting data outside India or ...

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## Govt tightens cybersecurity norms for inverters used in rooftop solar

The developments come in the backdrop of undocumented communication equipment found inside some Chinese-made inverter devices in May, raising security concerns.
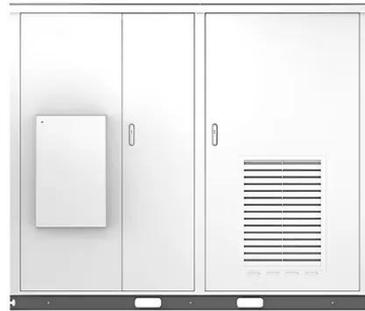
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## Over 80% solar inverters Chinese-made, India moves to shield power grid

As more than 80% of rooftop solar inverters used in India are made in China, India has moved to shield them from cyber risks by mandating to connect such devices to a national software ...

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