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Title: New Delhi solar container communication station inverter reform

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Are inverter communication modules a threat to national energy sovereignty?

It added that inverter communication modules that transmit data to servers outside India not only pose risks of unauthorized control but also threaten national energy sovereignty by exposing sensitive power consumption and generation data.

What are the new guidelines for rooftop solar installations in India?

As India advances rooftop solar installations via the PM Surya Ghar: Muft Bijli Yojana, the Ministry of New and Renewable Energy (MNRE) has introduced draft guidelines. These compel original equipment manufacturers (OEMs) supplying inverters to connect them to national servers managed by the MNRE or a designated entity.

Should solar inverters link directly to national servers?

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. Industry groups back the plan but warn of high compliance costs, supply chain constraints, and uneven connectivity.

When will inverter communication guidelines for rooftop solar system monitoring & control be available?

The vendor-neutral and open communication protocol based data communication and security guidelines for rooftop solar system monitoring and control through the national portal, will be made available for integration testing of inverter communication devices from Sept. 1, 2025. This content is protected by copyright and may not be reused.

India's Ministry of New and Renewable Energy (MNRE) has released draft guidelines outlining the data communication and cybersecurity architecture for remote monitoring systems ...

New Delhi Tightens Solar Inverter Rules Over Cybersecurity Risks, New Delhi enforces stricter inverter rules under rooftop solar scheme to boost cybersecurity and protect energy data. ...

1.0 Short Title and Commencement: These Guidelines shall be called Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) (First Amendment) Guidelines, 2025.

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The Ministry of New and Renewable Energy (MNRE) has mandated that all original equipment manufacturers (OEMs) enlisted for the supply of inverters under the PM-Surya Ghar: Muft ...

Direct communication of all solar inverters installed in India with MNRE-designated national servers Use of machine-to-machine (M2M) SIMs for secure, real-time data transmission

"Inverter communication modules that transmit data to servers outside India not only pose risks of unauthorized control but also threaten national energy sovereignty," the memorandum states.

According to the official notification, the integration of 10 million rooftop solar systems under the scheme introduces significant challenges related to grid stability and cybersecurity. The ...

The developments come in the backdrop of undocumented communication equipment found inside some Chinese-made inverter devices in May, raising security concerns.

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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