

ContainerPower Energy Solutions

India Industrial Energy Storage Policy



Overview

Can energy storage accelerate India's energy transition?

Energy storage has the potential to meet these challenges and accelerate India's energy transition. The potential for storage to meet these needs depends on many factors, including physical characteristics of the power system and the policy and regulatory environments in which these investments would operate.

How can Indian policymakers broaden the role of energy storage?

If Indian policymakers want to broaden the role of energy storage in the power system, an important first step is to include energy storage in national energy policies and programs.

Why is energy storage important in India?

The technical system characteristics of the Indian power system are favorable for energy storage to reduce operating cost and improve system reliability. Storage can provide energy arbitrage, ancillary services, and potentially defer transmission investments, but existing policy and regulatory barriers may limit these opportunities.

Should energy storage be regulated in India?

India's existing regulations present a useful framework for enabling energy storage deployment; however, current regulations that explicitly restrict storage from providing services or earning revenue for those services present a barrier to maximizing the cost-effective value of storage investments.

Does India need a robust energy storage infrastructure?

With India projected to account for 40% of global energy demand growth by 2040 and targeting 50% electricity generation from renewables by 2030, the need for robust energy storage infrastructure is critical. IESA's recommendations span supply chain resilience, material security, grid

integration, and regulatory reforms.

What are the challenges facing India's energy storage system?

APTER 11: Recommendations11.1 Existing Gaps in Current PoliciesIndia's energy storage system (ESS) ecosystem is grappling with severa challenges and gaps that hinder its development and deployment. One of the primary issues is the high dependency on imported raw materials, such as lithium and c

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