

How to Promote the Global Energy Interconnection

Article Overview

The Global Energy Interconnection (GEI) aims to create a clean, efficient, and interconnected global electricity network to accelerate sustainable energy transition and achieve carbon neutrality.

Concept and Objectives

The Global Energy Interconnection (GEI) is an ambitious initiative to integrate power systems worldwide through an intelligent, automated, and networked electricity grid dominated by clean energy sources such as wind, solar, and hydroelectric power . Proposed by Chinese President Xi Jinping in 2015, GEI aligns with the 2030 Agenda for Sustainable Development, aiming to provide universal access to clean electricity, reduce greenhouse gas emissions, and support global low-carbon energy transition . Its objectives include coordinating energy, industry, and meteorology to achieve a resilient, inclusive, and just energy system .

Technical Framework

GEI relies on ultra-high voltage (UHV) transmission systems and smart grid technologies to enable large-scale integration of renewable energy across countries and continents . The system incorporates interoperability standards, automated control, and real-time energy and information flow management. Recent efforts have established technical standards for wind farms, photovoltaic plants, and pumped storage units, providing guidelines for cross-border grid interconnection, equipment...

Article Content

Nov 16, 2025

A comprehensive review on the benefits and challenges of global

This paper reviews existing global and regional initiatives in context of a sustainable future and presents the associated

Dec 30, 2025

Global energy interconnection

Executive summary Global energy interconnection (GEI) represents the ultimate evolution of the trend towards greater

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Global energy interconnection

Exponential energy generation and demand 85% fossil energy 1,3 billion without access to clean energy Negative environmental

Nov 30, 2025

The Future of Power: Cross-Border Grid Interconnection

In the face of increasing energy security concerns and rising energy demands, how the world can increase energy

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Origin of Global Energy Interconnection

GEI Promote green and low-carbon energy transition and realize sustainable development Meet global electricity demand with clean

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Han Zheng Attends the 2025 Global Energy Interconnection

First, jointly promote the green and low-carbon transition of energy. All countries should deepen cooperation in areas

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Evaluating the economic and social benefits of global energy ...

To effectively promote its implementation, examining how these benefits differ across economies is crucial. This study

Jun 07, 2026

Opening remarks at 2025 Global Energy

I extend my appreciation to the Global Energy Interconnection Development and Cooperation Organization

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Global energy interconnection | IEC

Global energy interconnection (GEI) is technically highly complex. It will require a level of dependability never seen

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Global Energy Interconnection Development and Cooperation

The Global Energy Interconnection Development and Cooperation Organization (GEIDCO), headquartered in Beijing, China, is an

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Global Energy Interconnection: An Innovative Global Solution for ...

Transition to clean and low-carbon energy is ultimate approach to tackling the issue of climate change. The key to energy transition

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Research and Outlook on Global Energy Interconnection

Research by Global Energy Interconnection Development and Cooperation Organization (GEIDCO) shows that the development of

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Co-operation across borders is key to building interconnected power ...

Designers of energy systems have traditionally thought locally or nationally. But as adoption of renewable energy

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Interconnected Power Grids Bolster Energy Security | World

Connecting power grids across borders, whether between countries, provinces or states, can bolster energy security

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Global Energy N Interconnection

opment, adopted a dramatic way. With by world leaders conven- of Global Energy large-scale glacial melt-ing in the UN General

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Global Energy Interconnection Development and Cooperation

“World of Energy Interconnection” (WEI) Relying on GEIDCO's strengths in five aspects of project resources, research results,

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International Power Interconnections Progress and Help Countries in

Various progresses in advancing new power interconnection projects are taking place around the world. Five of these

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Research and Outlook on Global Energy Interconnection

The Global Energy Interconnection (GEI) is a clean energy-dominant, electricity-centered, interconnected and shared modern energy

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Guidelines for Cross-border Grid Interconnection

Clean and Green: Cross-border interconnections are guided by the overall direction of promoting sustainable economic, social, and

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Global Energy Interconnection: Clean Grid Standards

Global Energy Interconnection enables cross-border grids to share renewables, enhance reliability, and cut emissions through IEC

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China's Global Energy Interconnection: Exploring the Security ...

The authors of this report demystify the potential global security implications associated with the Global Energy

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New Partnership to Strengthen Clean Energy Capacity in ...

"GEIDCO brings valuable experience and vision in promoting clean energy development and global energy

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Interconnectivity: Benefits and Challenges

In this report the role of interconnectivity in the development of energy systems is examined with the associated socio-economic,

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Global energy interconnection

Recommendations for regulators Develop tools and methodologies to assess costs and benefits of energy interconnections

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Global Energy Interconnection Encouraging Just and Inclusive

The energy system is in urgent need of an inclusive, just and resilient transformation. Global Energy Interconnection (GEI)

Jan 22, 2026

Global Energy Interconnection

The Global Energy Interconnection is a proposed global electricity network (Super grid). World map of high voltage transmission lines

Jun 22, 2026

Global Energy Interconnection

To speed up the development of GEI and promote the implementation of the 2030 Agenda, GEIDCO has formulated

Dec 10, 2025

Statement Global Energy Interconnection Development and ...

Statement Global Energy Interconnection Development and Cooperation Organization (GEIDCO) Second Asian and the Pacific

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