

Global Energy Interconnection 2030



Overview

To address serious challenges confronting the world energy development, Chinese President Xi Jinping, for the first time in the world, proposed establishing Global Energy Interconnection, or GEI, to meet the global electricity demand with clean and green alternatives at the UN. To address serious challenges confronting the world energy development, Chinese President Xi Jinping, for the first time in the world, proposed establishing Global Energy Interconnection, or GEI, to meet the global electricity demand with clean and green alternatives at the UN. GEIDCO has carried out more than 100 researches, released more than 50 innovative results globally, and published more than 50 monographs and reports in Chinese and English, enhancing its influence among governments, enterprises, academia, and the public. Launched in March 2016 with its. In response, this year's report examines the range of measures that regulators and system operators are adopting to “move fast and connect things”: enabling more capacity to be integrated more quickly through regulatory reforms and deployment of technologies that can deliver rapid grid upgrades. On September 25, 2015, the UN General Assembly adopted Resolution 70/1 titled Transforming our World: the 2030 Agenda for Sustainable Development (hereafter “the 2030 Agenda”), which clarified 169 targets under 17 sustainable development goals(SDG) covering economy, society and environment. It is a. sumption of clean, renewable energy worldwide. Ultra high voltage technology (UHV) can support long-distance power transmission with high efficiency, low losses, and stability, allowing electricity generated from clean energy to be sent to people currently without access to electricity, or using. Global power demand is set to grow by more than 3. Electricity 2026, out today, is the IEA's annual report on global. GEI will help the realization of global SDGs in 2030: 5 (1) (1) GEI fosters economic growth and promotes social development. Total investment in created in aggregate. Developing countries will become the.

Article Content

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 consists in accelerating a modern energy system dominated by clean

Press Releases | Equinix

Equinix Expands Investments in Global Data Center Workforce Development Mar 24, 2026

Egypt -Electricity and Renewable Energy

Hydrogen The Ministry of Electricity and Renewable Energy and the Ministry of Petroleum and Mineral Resources 2024 hydrogen strategy was developed by Advisian Company

Global electricity demand is set to grow strongly to

The momentum behind low-emissions sources of generation continues to 2030, by which time renewables and nuclear are together set to

2026 Power and Utilities Industry Outlook | Deloitte

At the same time, new supply is not coming online fast enough. The energy mix is shifting toward renewables, which accounted for 93% of new capacity through

Nuclear Pivot: AI Energy Demand Reshapes Global

AI data centers will consume 500+ TWh by 2026, forcing Microsoft, Amazon, Google, and Meta to sign direct nuclear PPAs bypassing overloaded

Data centers and AI: How the energy sector can meet

The growth of data centers and AI rely on the availability of electric power. Opportunities for investors in power infrastructure and adjacent sectors

Global battery energy storage system (BESS) trends

Battery energy storage systems (BESS) now sit at the heart of the global shift toward flexible, renewable-dominated grids. Understanding the regional trends

Grids - Electricity 2026 - Analysis

Meeting electricity demand through 2030 will require annual grid investment to increase by approximately 50% by 2030 from today's USD 400 billion, alongside

Global Energy Interconnection | Journal

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Renewable energy finance, policy, and building energy technologies ...

This paper analyzes North American shifts in renewable energy finance and building energy technologies from 2022 to 2025. Fueled by net-zero targets a

Hyperscaler AI & Data Center Energy 2026, \$726B

S& P Global forecasts that data center grid-power demand in the U.S. will rise 22% in 2025 and nearly triple by 2030, while the IEA projects a 15% compound

Global Energy Interconnection

To speed up the development of GEI and promote the implementation of the 2030 Agenda, GEIDCO has formulated Global Energy Interconnection Action Plan to Promote the 2030

Is power grid connectivity the strategic bottleneck for AI?

Artificial intelligence (AI) is advancing faster than ever before, but the global energy system needs to keep pace for this progress to continue. Investment in AI data centres is growing

AI Data Centers Reshape Global Energy Markets in 2026

AI data centers are projected to consume 1,000 TWh globally in 2026, doubling by 2030. This surge strains grids, drives gas and nuclear

Global Grid Targets: Enabling Decarbonisation

It is imperative that we transform electricity grids from potential bottlenecks into powerful enablers of the global energy transition. That is why we need global grid targets that will focus governments and

AI Data Center Power: Grid Limits Reshape Energy in

AI data center power demand is breaking the grid in 2026. See how grid constraints fuel trillions in on-site energy investments. Discover the new power plays now!

Global electricity demand is set to grow strongly to

In this Age of Electricity, the increase in global power consumption through 2030 is set to be equivalent to adding more than two European Unions,”

Global Energy Interconnection Journal Press

Global Energy Interconnection established by Global Energy Interconnection Development and Cooperation Organization (GEIDCO), is professional and

PowerBank | Solar, Storage & Power for the AI Era

The global data center market, valued at \$242.72B in 2024, is projected to reach \$584.86B by 2030. Land acquisition, grid interconnection queues, and permitting

Reliable Data Center Power Solutions

Benefits to Data Centers Data center leaders expect approximately 30% of all data center sites to use some onsite power as a primary energy source supplemental

Globally interconnected solar-wind system addresses

Here, we demonstrate the potential of a globally interconnected solar-wind system to meet future electricity demands.

US Utilities Plan \$1.4T for AI Data Centers: 27% Capex

US utilities plan \$1.4 trillion in spending through 2030 for AI data centers. Duke Energy leads at \$102.2B as power demand hits 9% of US electricity.

ACCELERATING SDG 7 ACHIEVEMENT POLICY BRIEF 25

In order to extend grid connection to the regional and global level, comprehensive power planning at the global level would be needed to optimize grid inter-connectivity and operations...

Contact Us

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