

# **Three Pillars of the Global Energy Interconnection**





## Three Pillars of the Global Energy Interconnection



### Global Energy Interconnection: an effective solution to

GEI is thus built on three pillars: a large-scale deployment of clean energy, power transmission over large distances realized via UHV technology, and smart grid solutions leveraging intelligent

### Three Pillars Interconnection -> Area -> Sustainability

What Are the Three Main Pillars of Sustainability in the Context of Energy? Environmental, economic, and social balance are the core requirements for energy sustainability.



### An Extensive Library of Self-Developed Products



### 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) represents an interconnected, intelligent and efficient multi-energy coordination

### Redefining global energy systems

Recent years have seen renewed interest in nuclear energy, growth in electromobility and the rapid emergence of AI - raising both electricity demand



### **Global Energy Interconnection: an effective solution to climate**

As a whole, this section summarizes three main reasons why GEI can be an effective solution to address climate change as follows: (1) addressing climate change is itself a goal of GEI; (2) GEI can

### **Global energy interconnection**

Renewable energies are constrained by geographic location, weather conditions, and time Requires transmission of power over long distances Investment in new energy infrastructure and technology,



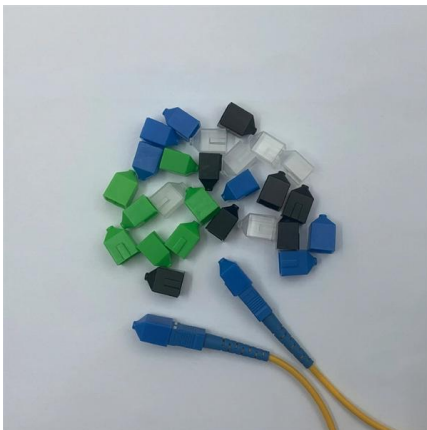
### **Insights for global energy interconnection from China**

Vigorously developing global renewable energy such as wind energy, solar energy, and hydropower and realizing global clean resource sharing are



## The Climate Crisis and the Four Pillars of Energy Transition

The global energy sector is undergoing a transformative shift driven by the imperative to combat climate change and the proliferation of advanced technologies, including Artificial Intelligence (AI), the



### Global energy interconnection

Executive summary Global energy interconnection (GEI) represents the ultimate evolution of the trend towards greater interconnection of power systems. It embodies high-level integration of the flow of

### Three Pillars Interconnection -> Area -> Sustainability

Meaning Three Pillars Interconnection refers to the systemic and non-linear dependencies among the environmental, social, and economic dimensions of sustainability, asserting that progress in one area



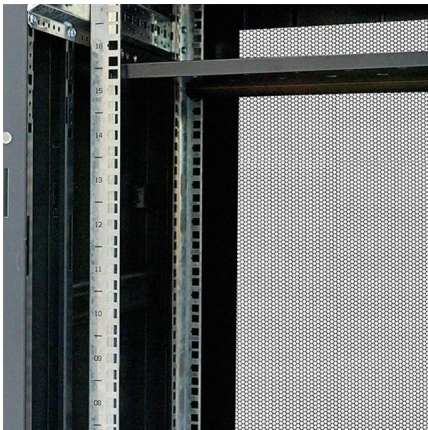
### Research and Outlook on Global Energy Interconnection

The Global Energy Interconnection (GEI) is a clean energy-dominant, electricity-centered, interconnected and shared modern energy system. It is an important platform for large-scale



### Global energy interconnection

Thus this White Paper aims to highlight the concept of GEI and begin laying the foundations for identifying and addressing the standardization needs for large-scale, transcontinental and global

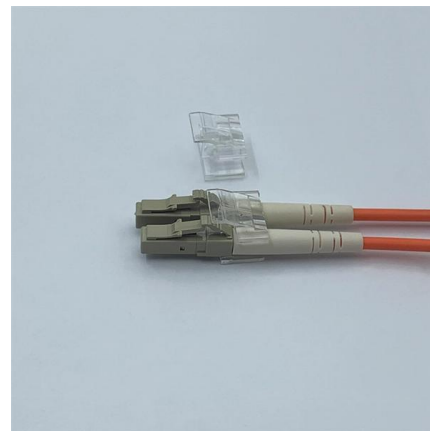


### 3 Pillars Of Sustainability Explained (Guide & Examples)

The UN defines the 3 pillars of sustainability as environmental, social, and economic. Expert insights, real-world examples, their connection with the

### Global Energy Interconnection

The provision of low carbon energy to our society is a key issue at the heart of sustainable development of global energy supply. The Global Energy



### Global Energy Interconnection

The Global Energy Interconnection is a proposed global electricity network (Super grid). World map of high voltage transmission lines with more than 220 kV



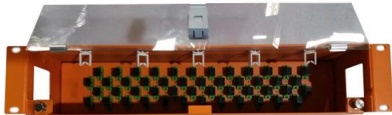
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**Redefining global energy systems**

Global energy systems face mounting pressures and rising stakes, necessitating a resilient, regional and market-driven transition. The global energy



**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



**Global Energy Interconnection: A building block towards planetary**

Renewable energy, often in combination with new business models and IT solutions, allows less developed countries to leapfrog pollution- Georg Kell et al. Global Energy



## Global Energy Interconnection: An Innovative Global Solution for

global innovation plan for achieving the goals in Paris Agreement. GEI is a robust and smart power grid with Ultra-High Voltage (UHV) power transmission as the backbone framework, and a basic platform

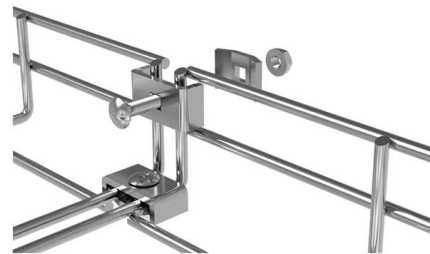


### Global energy interconnection and energy transition

This session will discuss and explore mechanisms, solutions, and benefits associated with fostering an inclusive, equitable, and resilient global energy transition through global energy interconnection, and

### High-Level Luncheon Global Energy Interconnection: Advancing the

Mr. LIU Zhenya, Chairman of Global Energy Interconnection Development and Cooperation Organization, Mr. Elnar Remi Holmen, State Secretary, Ministry of Petroleum and Energy of



### Global Energy Interconnection Is Crucial for Paris Goals

(Global Energy Interconnection Development and Cooperation Organization) will engage with participants with the aim of disseminating



## Global Energy Interconnection: an innovative solution for

Against the background of energy consumption transformation and climate governance, Global Energy Interconnection (GEI), which features an innovative combination of advanced



## Research and Outlook on Global Energy Interconnection

Based on global clean energy resources endowments and distribution, a global main clean energy bases layout and generation planning optimization

## Global Energy Interconnection

Energy concerns the overall situation of sustainable development. To address serious challenges confronting the world energy development, Chinese President Xi Jinping, for the first time



## ACCELERATING SDG 7 ACHIEVEMENT ACTION BRIEF 1

Summary Global Energy Interconnection (GEI) provides an infrastructure platform through which clean energy can be largely developed, transmitted, and consumed globally using a combination of 'smart



## 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



### Global energy interconnection

Exponential energy generation and demand 85% fossil energy 1,3 billion without access to clean energy Negative environmental impact Energy production accounts for 2/3 global greenhouse gas emissions



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