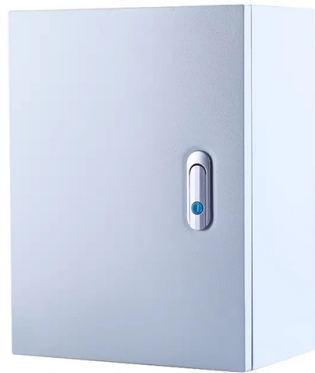


What is the Eastern European Global Energy Interconnection



Overview

It is interconnected as a single phase-locked 50 Hz mains frequency electricity grid that supplies over 400 million customers in 32 countries, including most of the European Union. The EU has set an interconnection target of at least 15% by 2030. Connecting Europe's electricity systems will allow the EU to boost its security of electricity supply and integrate more. Ember's Europe Electricity Interconnection data tool allows users to explore the use (flows) and potential (capacity) of the cross-border transmission grid across European and neighbouring countries. The data covers 51 countries and includes: Interconnection capacities and import potentials by. The Continental Europe Synchronous Area (CESA), formerly known as the UCTE grid, is one of the largest synchronous electrical grids in the world, primarily operating in Europe. The work presented in this deliverable represents. A few weeks ago, Estonia, Lithuania and Latvia synchronised their Energy grid with the European Grid by cutting the connection to the Russian controlled BRELL System via the overhead transmission line LitPol link that connects Poland and Lithuania, which share a common border.



Article Content

Mar 29, 2026

Research and Outlook on Global Energy Interconnection

Research by Global Energy Interconnection Development and Cooperation Organization (GEIDCO) shows that the development of the climate crisis mainly presents four phases. The first is the risk

Sep 03, 2025

ADVANCING CROSS-BORDER ENERGY INFRASTRUCTURE

Connecting Europe and the Middle East and North Africa (MENA) region via interconnectors and hydrogen pipelines contributes to a secure, sustainable, and affordable energy system.

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Development of the interconnected power grid in Europe and

In the eastern European countries near the Baltic Sea, the 330 kV voltage level is still reserved, as their power grid system is part of the former unified electric power system of the Soviet

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Connecting energy infrastructure in the EU

Find out how the EU plans to strengthen its energy infrastructure and cross-border interconnections with its TEN-E policy, the grids package and the Connecting

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Breaking Borders: Europe's Energy Future Lies In

Interconnection is the vital missing piece in Europe's renewable energy puzzle. Expanding cross-border electricity exchange will be critical to

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Trans-European Networks for Energy

The Trans-European Networks for Energy (TEN-E) policy is a long-standing EU instrument for connecting EU countries' energy networks. To help

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Evaluation on Global Energy Interconnection Development of Main ...

Abstract: For a long time, the world energy development depends on fossil energy excessively, thus making problems such as resource shortage, climatic change and environmental

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Continental Europe Synchronous Area

The Continental Europe Synchronous Area (CESA), formerly known as the UCTE grid, is one of the largest synchronous electrical grids in the world, primarily operating in Europe. It is interconnected as a single phase-locked 50 Hz mains frequency electricity grid that supplies over 400 million customers in 32 countries, including most of the European Union. In 2009, 667 GW of production capacity was connected to the grid,

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Interconnection of European Energy Networks,

A few weeks ago, Estonia, Lithuania and Latvia synchronised their Energy grid with the European Grid by cutting the connection to the Russian

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Cross-border electricity trading lowers energy costs and increases market efficiency, encouraging investment in renewable energy projects.

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Power in Unity

Interconnectors are cross-border, high voltage cables that link Europe's national power grids. Together with shared market rules, they create the integrated European electricity market, allowing electricity

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Power in Unity

Power in Unity Doubling electricity interconnection can boost Europe's green transition and strengthen security of supply Author : Elisabeth Cremona, Ember | Published : 14 June 2023 In collaboration

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Development of the interconnected power grid in Europe and

In: The European and the Italian approaches: 225 Wu C, Zhang X (2018) Economic analysis of energy interconnection between Europe and China with 100% renewable energy

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Future-Proofing Central Eastern European Grids for Tomorrow's Energy

Executive Summary This inspiration paper presents a critical analysis and strategic recommendations for transforming the electricity grid infrastructure in Central and Eastern Europe (CEE), a vital step

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Council agrees on new rules for cross-border energy infrastructure

Council agrees on new rules for cross-border energy infrastructure The Council today reached a general approach on the revision of the Trans-European Networks for Energy (TEN-E)

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Europe Electricity Interconnection Data Tool | Ember

Ember's Europe Electricity Interconnection data tool allows users to explore the use (flows) and potential (capacity) of the cross-border transmission grid across European and

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EU Member States have given green light to a Commission proposal to invest €602 million of EU funds in eight cross-border energy infrastructure

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High-level Conference on Advancing Connectivity:

The event aims to support the European Union's commitment to enhancing connectivity within and beyond its borders. It will emphasise the

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We're seeing the green shoots of a more mature, secure, regional energy future for Europe and Eurasia. Investors are beginning to return to the region, bringing capital and expertise.

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Global Gateway to scale up energy security in Southern and Eastern ...

Global Gateway is the EU's positive offer to reduce the worldwide investment disparity and boost smart, clean and secure connections in digital, energy and transport sectors, and to

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Regional and Global Energy Interconnection (RGEI)

Case studies: RGEI developed case studies of regional power grid interconnection, focusing on issues of technical-economic, regulations coordination, and market design etc. The regions included in the

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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

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Electricity interconnection targets

The EU has set an interconnection target of at least 15% by 2030. To achieve its climate and energy goals, Europe needs to improve cross-border electricity

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Transcontinental Grids and Global Gateway | JRC SES

We assess building blocks and progress towards the development and interconnection of the European electricity transmission grid. More in detail, we

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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 Interconnection ing worldwide, a drasti-
Assembly in September

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EU energy infrastructure: Boosting energy security

Energy system integration and interconnections help improve energy security and
energy systems'' resilience. At EU level, interconnection targets currently only exist
for electricity (a general target of

Nov 11, 2025

Attica-Crete leg of Mediterranean super grid due mid 2025

On Feb. 29, 2024, the European Network of Transmission System Operators for
Electricity (ENTSO-E) published a draft list of interconnection and energy storage

Contact Us

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