

# Electricity is the most critical energy for the future



## Overview

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Electricity is becoming the backbone of modern economies as industries grow, cities expand and more sectors – such as transport, manufacturing and heating – shift to electric power. How AI and renewables are shifting the energy landscape. One of the dominant storylines I've been following through 2025 is electricity—where and how demand is going up, how much it costs, and how this all intersects with that topic everyone is talking about: AI. Last week, the International Energy Agency's Global Power Demand Outlook 2024, set to grow by more than 3.5% per year on average over the rest of this decade, with electricity generation from renewables, natural gas and nuclear all expanding to keep pace, according to a new IEA report. Electricity 2024, out today, is the IEA's annual report on global electricity. In this evolving era, the mastery of abundant, affordable, and reliable energy, coupled with cutting-edge Artificial Intelligence (AI) capabilities and guaranteed access to fresh water resources, is emerging as the ultimate currency of global power.

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### The 8 Critical Energy Trends Defining 2025

Discover the eight pivotal trends that will reshape energy security, sustainability, and accessibility in 2025.

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### Global electricity demand is set to grow strongly to 2030, underscoring

According to the report, electricity demand is on course to grow at least 2.5 times as fast as overall energy demand through 2030 as the Age of Electricity takes hold. This is driven by rising ...

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### The World Is Electrifying. What Does That Mean for Our Global Energy

Gains in renewable energy, energy efficiency, electric vehicles, and other low-emissions technologies are struggling to offset rising energy demand globally. What's more, these projections ...

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## How to meet global energy demand in the age of electricity?

No single technology can meet the growing demand for electricity, necessitating a diverse energy mix for the future. Optimizing existing energy infrastructure will be essential to meet ...



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## Global electricity demand: what's driving growth and why it matters?

1. Global electricity demand and its drivers Global electricity demand is projected to experience robust growth in the coming years. This surge is attributed to increased economic activity, heightened use ...

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## High-resolution global pathways to achieve 100% electricity

To address this gap, we explore scenarios for achieving universal electricity access globally in 2030 based on high-resolution data and energy projections from the integrated ...



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## Three things to know about

## the future of electricity

Energy demand in general is going up around the world as populations increase and economies grow. But electricity is the star of the show, with demand projected to grow by 40% in the ...

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## Top 7 Future Energy Sources

Learn which energy sources will power the future - nuclear, solar, wind, and more - plus how ROVs play a role in modern energy infrastructure.

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## The energy world is set to change significantly

Electricity generation from coal and natural gas across Latin America, Africa, Southeast Asia and the Middle East would be a quarter lower.

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## Global Energy Perspective 2025 , McKinsey

This year's report focuses on the factors shaping the energy landscape: geopolitical uncertainty, shifting policies, and increasing demand for power.

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