



Power generation from renewable energy sources

By 2030 and 2060, renewable energy is projected to account for 40% and 80% of global electricity generation, respectively. 1 Despite climate change offering potential benefits ...

The addition of 582 gigawatts of renewable capacity in 2024 led to significant cost savings, avoiding fossil fuel use valued at about USD 57 billion. Notably, 91% of new renewable power ...

The Energy Information Administration of the U.S. Department of Energy classifies hydropower as a renewable energy source. In 2016, the United States generated 15% of its energy from renewable sources, of which 42% ...

A positive shift was brought by other renewable energy sources -- solar power plants, wind farms, biomass, and biogas -- which for the first time held the leading position in the energy ...

The International Energy Agency (IEA) projects that achieving a 50% reduction in emissions by 2050 will require a comprehensive energy transition, in which renewable energy will play a ...

Renewable energy, usable energy derived from replenishable sources such as the Sun (solar energy), wind (wind power), rivers (hydroelectric power), hot springs (geothermal energy), tides (tidal power), and biomass ...

Electricity generation from renewable sources increased by 1.9% year-on-year (+6.6 TWh) in the OECD in April 2025. The output from solar generation continues to increase (+27.4% y-o-y, +21.6 TWh), counter ...

The U.S. electric power sector is experiencing a surge in renewable energy deployment, yet the grid faces mounting pressure from skyrocketing demand and shifting federal policies. As data ...

Explore the leading renewable energy sources shaping a sustainable future, including solar, wind, hydro, geothermal, and bioenergy. Understand their potential to meet global energy demands ...

Washington leads the nation in electricity generation from hydroelectric power and accounted for about 25% of the nation's total hydroelectric generation in 2024. 53, 54 The state was third in the nation, after ...

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India's renewable energy sector experienced remarkable growth in the first half of 2025, adding 22 gigawatts



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of capacity, a 56% increase year-over-year. This surge propels India closer to its ambitious 2030 clean energy target, with non-fossil ...



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