

In this deep dive, we explore five of the most promising renewable energy technologies poised to reshape the global energy landscape in the coming decades. These are not distant dreams.

Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. ...

Renewable energy is energy produced from Earth's natural resources, those that can be replenished faster than they are consumed. Common examples include solar power, hydropower and wind ...

Decarbonisation plans across the globe require zero-carbon energy sources to be widely deployed by 2050 or 2060. Solar energy is the most widely available energy resource on Earth, and ...

Clean energy continues to dominate new power capacity. For example, in 2024, more than 90% of all new electricity capacity worldwide came from renewable sources such as solar, wind, ...

The Future of Solar Energy considers only the two widely recognized classes of technologies for converting solar energy into electricity -- photovoltaics (PV) and concentrated solar power (CSP), ...

Discover the innovative solar energy trends shaping 2025 and beyond. Explore advancements in solar technology and solutions driving a sustainable future for solar power.

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...

Explore the future of solar in 2025--key trends, new tech, and policies driving global clean energy growth.

Discover how green tech is shaping renewable sources and transforming the future of energy. Explore the latest innovations in solar, wind, hydropower, and energy storage that are driving ...

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