

Alongside this drop in cost, renewable energy capacity has increased significantly over the past decade, growing by around 2,600GW, or 140%, between 2015 and 2024, according to the UN report. Over the same period, fossil fuels increased ...

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 ...

Biogas is an increasingly popular renewable energy source, offering a sustainable way to produce electricity and heat. Its production and use have significant environmental and economic ...

Anaerobic digestion converts the biogenic portion of organic waste into renewable natural gas for distribution in municipal power grids or for fleet vehicle fuel. Its proprietary technologies are being used in more than 1,600 renewable ...

The quest for efficient and cost-effective renewable energy solutions continues to draw significant attention from scientists and engineers around the world. Among the various technologies ...

Water scarcity is a growing concern around the world, with many regions facing droughts, water shortages, and poor water quality. At the same time, renewable energy sources, such as solar ...

What you need to know: Clean energy reliably powered California to levels never seen before - 67% in 2023 - as renewable energy and clean resources continue to advance the state's world-leading energy transition while fueling the ...

In 2025, global energy investment is expected to reach \$3.3 trillion -- the highest level ever recorded, according to the IEA World Energy Investment Report 2025. Clean energy will account for two-thirds of that total, led by investment in ...

Key Takeaways: The sustainable energy transition is the process of transitioning from environmentally harmful sources (like fossil fuels) to sustainable ones. Sustainable energy emphasizes energy sources that fulfill current ...

The renewable power capacity data represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, ...

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 ...



Renewable energy around the world



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