

Will we all use solar power in the future



Overview

According to the International Energy Agency (IEA), solar power will account for over 30% of global electricity generation by 2050, reinforcing the shift towards a solar-powered future. The future of solar energy will be powered by continuous technological advancements. In recent years, solar power has proven to be a key solution for reducing dependence on fossil fuels and mitigating climate. The solar energy industry is experiencing unprecedented growth driven by nine transformative trends that are reshaping how we generate and consume power. Here we use data-driven conditional technology and economic forecasting modelling to establish which zero carbon power sources could become. The Solar Futures Study is the result of extensive analysis and modeling conducted by the National Renewable Energy Laboratory to envision a decarbonized grid and solar's role in it. America is hoping to eliminate fossil fuels by 2035.

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[30 visions for a better world in 2030 , World Economic Forum](#)

From cutting violence in half to turning the whole economy circular, a set of optimistic predictions drawn from global experts in the World Economic Forum's Global Future Councils.

[Why we need critical minerals for the energy transition , World](#)

Critical minerals and rare earth elements are pivotal to the energy transition. A Forum white paper explores their supply chain challenges and how to address them.



[5 futures of infrastructure: What will we build by 2100?](#)

Five future infrastructure scenarios and why bold, resilient and sustainable planning is essential to meet climate, economic and societal demands.

[A generation adrift: Why young people are less happy and what we](#)

A combination of social, economic, technological and ecological pressures are robbing young people worldwide of optimism.



[Davos 2026: Special address by Mark](#)



[Carney, PM of Canada](#)

Watch Mark Carney, Prime Minister of Canada, deliver a special address at the World Economic Forum Annual Meeting 2026 in Davos on Canada's global vision, economic partnerships

These are the Top 10 Emerging Technologies of 2025

The World Economic Forum's latest Top 10 Emerging Technologies report explores the tech on the cusp of making a massive impact on our lives.



[These are the biggest global risks we face in 2024 and beyond](#)

The World Economic Forum's Global Risks Report 2024 says the biggest short-term risk stems from misinformation and disinformation. In the longer term, climate-related threats dominate

The Future of Solar Energy: Top Solar Energy Trends

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



[Davos 2026: Special Address by US President Donald J Trump](#)

This blog contains the full transcript of a special address by Donald J Trump, President of the United States of America, delivered at the World Economic Forum's Annual Meeting 2026 in

The Future of Solar Energy: Trends to Watch in 2025

The Future of Solar Energy: Trends to Watch in 2025-2026 and Beyond - Discover 9 game-changing solar energy trends shaping our



The Future of Solar Energy , MIT Energy Initiative

Because energy supply facilities typically last several decades, technologies in these classes will dominate solar-powered generation between now and 2050, and we do not attempt to look beyond

[Sustainable Development Goals: Are we on track for 2030?](#)

Progress towards the UN's Sustainable Development Goals is slow, with only 18% on track for 2030, according to the UN's latest update report.



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