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10 YEARS POST-PARIS

THE DECADE THAT DEFIED PREDICTIONS

2015 2025

In 2015, nearly 200 countries endorsed the Paris Agreement, committing to start limiting to well below 2°C.

Governments **Business** **Finance** **Civil society** **Cities** **Regions**

A decade on, the world has started to act on climate change, but not nearly enough. We look at the progress.

1. DEPLOYMENT OF SOLAR & WIND — CLEAN ENERGY

"We forecast 25 GW of new solar each year to 2030 and 40-50 GW of wind." — Bloomberg New Energy Finance, Global Renewables Outlook, 2015

Reality has exceeded the IEA's forecast by **1,000%** already, with **203 GW of solar installed in 2024**.

Solar and wind are booming — and at times, exceeding — expectations. Renewables now outpace fossil fuels in new power capacity, and solar is the cheapest source of electricity in history.

In 2025, **renewables deployment topped wind around 2007 where it had been since**.

ANNUAL SOLAR CAPACITY ADDITIONS: EXCEEDING EXPECTATIONS SINCE 2015

Sources: IEA, Ember, Bloomberg New Energy Finance

2. THE COST COLLAPSE OF SOLAR & WIND — CLEAN ENERGY

"Over by 2025, grid-scale PV [PV: electricity] will be the cheapest way to generate electricity in most countries." — BP Energy Outlook, 2015

"Over by 2025, grid-scale PV will require a material carbon price to compete with efficient gas combined cycle generation." — BP Energy Outlook, 2015

In 2025, the IEA said that **solar had become the "cheapest electricity in history"**. In 2015, **average battery prices declined by 60%**, facilitating PV and output expansions that **the cost of solar photovoltaic power (PV) generation will continue to fall.**

LEVELISED COST OF ELECTRICITY, WORLD

Sources: Lazard's Levelized Cost of Energy Analysis, Our World in Data, Bloomberg New Energy Finance, Wood Mackenzie & BNEF, LBNL

3. THE COST DECLINE OF WIND GENERATION — CLEAN ENERGY

"I think wind energy is the biggest untapped economic bounty I've seen in my entire life. I've never seen anything more much more bloated, more diverse, more untapped." — Angel Penagos, 2016

Net onshore wind remains the world's largest source of renewable electricity, though short-term growth has been overtaken by offshore. Global wind capacity is 1,000 times greater than in 1980.

In 2025, new onshore wind projects delivered power at a cost of **5% below fossil alternatives**. Offshore wind costs **fell by 40% between 2015 and 2025**, driven by the commissioning of **new cost of electricity in 2025**.

In the US, Wood Mackenzie projects that onshore wind costs will fall about 40% by 2050, while offshore wind costs will decline by 60% in a learning curve similar to that of solar PV.

LEVELISED COST OF ELECTRICITY FOR WIND, WORLD

Sources: Lazard's Levelized Cost of Energy Analysis, Our World in Data, Bloomberg New Energy Finance, Wood Mackenzie & BNEF, LBNL

4. ENERGY INVESTMENT — CLEAN ENERGY

"Less investment in clean energy generation than in 2015." — Shell, 2015

"Less investment in coal power generation than in 2015." — Shell, 2015

"Less investment in coal power generation than in 2015." — Shell, 2015

**"Less investment in coal power