

WWEA Half-year Report 2025

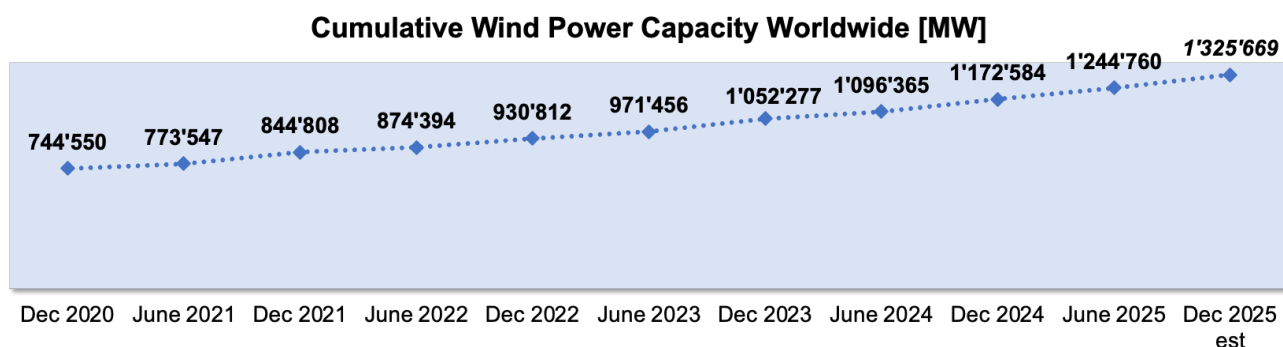
Global Wind Power Growth Accelerates in the First Half of 2025

The world's wind power sector recorded **strong growth in the first half of 2025**, with global installations **rising by 64%** compared to the same period of 2024. A total of **72,2 gigawatts** (GW) of new capacity were added between January and June 2025, following 44,1 GW installed in the first half of the previous year.

Over the twelve months from July 2024 to June 2025, **the sector added 148 GW**, compared with 125 GW during the preceding twelve-month period. By the end of June 2025, total installed wind power capacity reached 1'245 GW (1,25 terawatts), representing a **13,5% annual growth rate**. Wind energy now provides approximately 12% of global electricity demand.

Highlights

- **72,2 GW** added in the first half of 2025, up **64% year-on-year**
- **148 GW** installed between July 2024 and June 2025
- **Global total: 1'245 GW** (1,25 TW) as of June 2025
- **Annual growth rate: 13,5%**
- **Wind power share: ~12%** of global electricity supply
- **China: 51,4 GW added, more than double the previous year**
- **Full-year 2025 outlook: around 150 GW** new installations expected
- **Projected total by end-2025: over 1'320 GW**

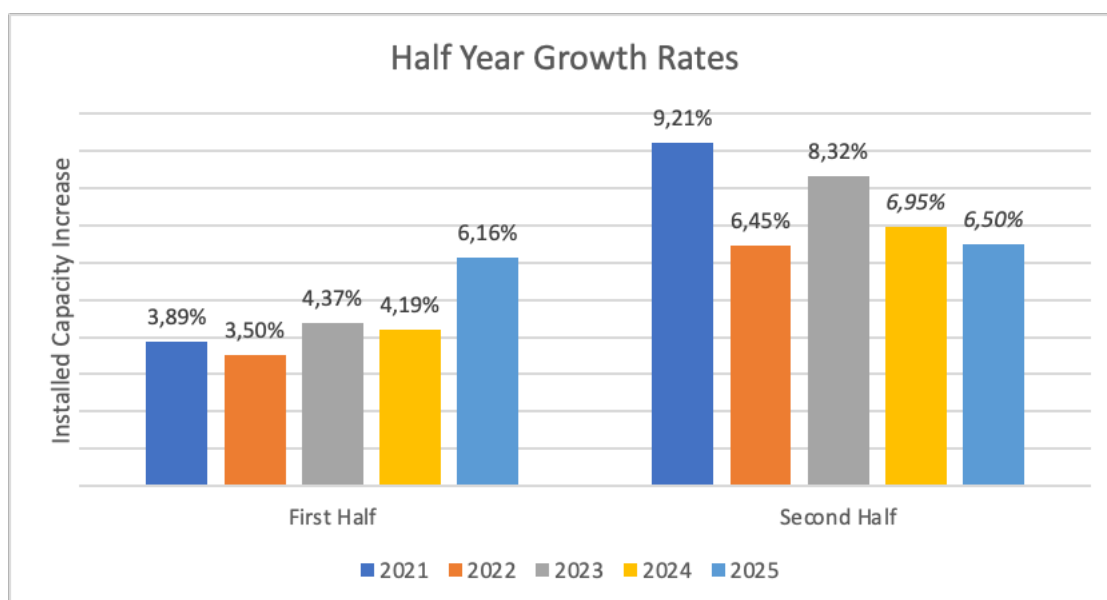


Global Developments

The **World Wind Energy Association (WWEA)** has compiled statistics on global wind power installations for the first half of 2025, based on data from national associations, official statistics, and WWEA estimates. The figures reflect both confirmed installations and projections for the remainder of the year.

In the first six months of 2025, the world added **72'176 megawatts (72.2 GW)** of new capacity — **63,7% more** than the **44'088 MW** installed during the same period of 2024. This corresponds to a **year-on-year increase** of **148 GW** in total installed capacity, from **1'096 GW** in June 2024 to **1'245 GW** in June 2025.

The **semiannual growth rate** reached **6,2%**, compared with **4,2%** in the first half of 2024 and **4,4%** in 2023, marking a clear acceleration of global wind deployment.

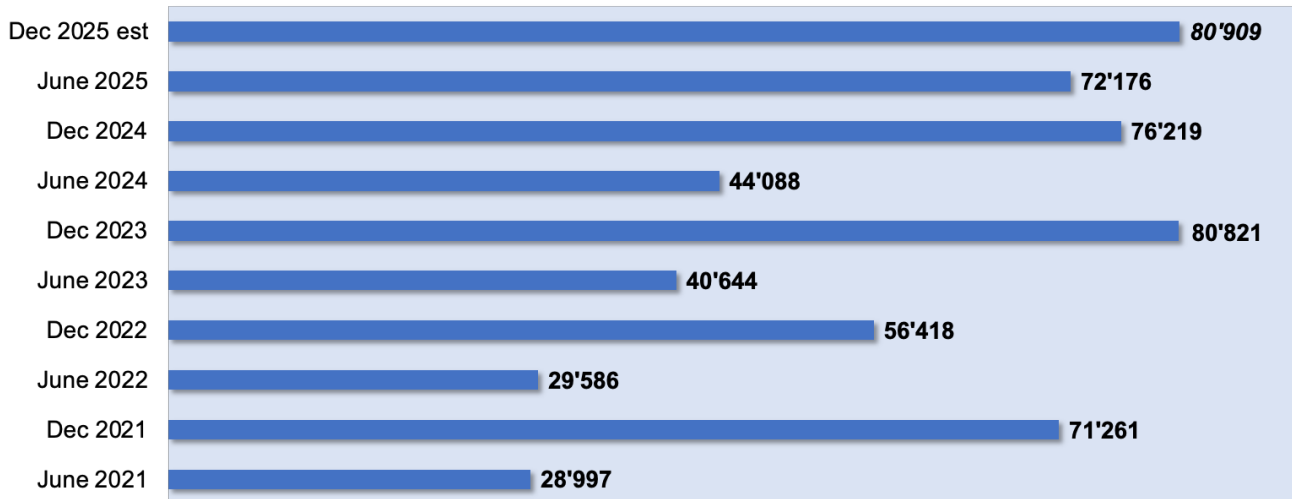


Market Dynamics and Outlook

Delays in several major projects during the second half of 2024 led to slower annual growth that year. Many of these projects were completed in early 2025, contributing to the strong installation figures observed in the first half of the year.

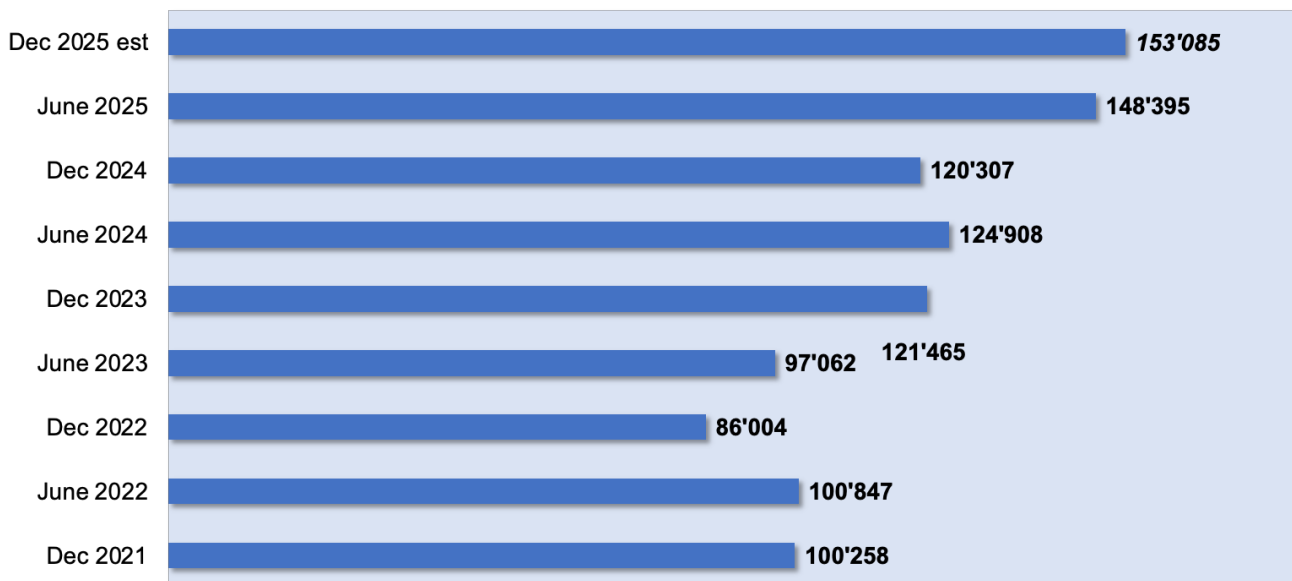
Growing uncertainties in some countries may rather result in more installations this year, as investors rush to benefit from existing frameworks. This may, however, have a slightly negative medium-term impact.

Half Year: New Installed Wind Capacity [MW]



Continued expansion is expected in the second half of 2025. According to WWEA member estimates, **total new installations for the full year** are likely to reach **over 150 GW** — a new global record. This would exceed the **120 GW added in 2024**, **121 GW in 2023**, and **86 GW in 2022**.

Year-on year: New Installed Wind Capacity [MW]



By the end of 2025, **global cumulative wind capacity** is projected to **exceed 1'320 GW**, sufficient to generate around **12% of the world's electricity**.

Country Highlights

China remains by far the world's largest wind power market. In the first half of 2025, the country installed **51,4 GW**, more than **double** the capacity added during the same period in 2024 (25,8 GW) and in 2023 (23,8 GW). China represents a market share of 72%. With a cumulative total of over 600 GW, China continues to lead global wind development by a wide margin.

Five other countries added more than **1 GW** each in the first half of 2025:

- **India:** 3,5 GW
- **United States:** 2,1 GW
- **Germany:** 1,9 GW
- **France:** 1,7 GW
- **Brazil:** 1,3 GW

Ranking Changes

Several shifts occurred among the world's top 15 wind power markets:

- **Brazil** has consolidated its position as the **fifth-largest** market worldwide.
- **Spain** has moved down to **seventh place**.
- **Turkey** has overtaken **Italy** to become the **eleventh-largest** wind market.

Rank	Country/Region	New 1-6/25	Jun 25	Dec 24	New 1-6/24	Jun 24	Dec 23	Jun 23	Dec 22
1	China	51'390	612'882	561'492	25'840	500'440	474'600	419'400	395'230
2	United States	2'138	156'747	154'609	2'362	152'817	150'455	146'433	144'053
3	Germany	1'876	74'559	72'683	1'572	71'046	69'474	67'765	66'242
4	India	3'475	51'675	48'200	1'914	46'650	44'736	43'940	41'600
5	Brazil	1'300	35'000	33'700	2'327	30'907	28'580	25'967	23'661
6	United Kingdom	840	32'930	32'090	250	30'413	30'163	29'332	28'683
7	Spain	450	32'564	32'114	629	31'426	30'797	30'471	30'158
8	France	1'706	26'089	24'383	843	24'317	23'474	22'541	20'915
9	Canada	565	19'000	18'435	1'240	18'226	16'986	15'762	15'212
10	Sweden	79	17'087	17'008	536	16'787	16'251	15'042	14'278
11	Australia	120	15'408	15'288	1'656	13'645	11'989	10'839	11'047
12	Turkey	603	13'467	12'864	505	12'311	11'806	11'566	11'405
13	Italy	322	12'928	12'606	264	12'314	12'050	11'819	11'647
14	Netherlands	0	11'691	11'691	66	11'674	11'608	8'542	8'215
15	Poland	60	10'293	10'233	245	9'628	9'383	NN	7'950
	Rest of World (estim. 2025)	7'252	122'440	115'189	3'840	113'764	109'925	112'037	100'516
	Total	72'176	1'244'760	1'172'584	44'088	1'096'365	1'052'277	971'456	930'812

All figures in MW

Conclusion

The first half of 2025 demonstrates the **continued momentum and resilience** of the global wind power sector. Driven by strong growth in China and steady expansion across major markets, wind energy is on course for its **strongest year ever**. With a record **150 GW** expected to be installed in 2025 and a global total surpassing **1,3 terawatts**, wind power continues to play a **central role in the world's renewable energy transformation**.



The upcoming **22nd World Wind Energy Conference WVEC2025** in Shantou, China from 3 December 2025 to 5 December 2025 will further strengthen global cooperation and set the course for the next phase of wind energy leadership:

www.wwec2025.org.cn

WWEA President Dr. Irfan Mirza:

The first half of 2025 has been a defining period for the global wind energy sector – not only for its record-breaking growth but for the clarity it provides about the world's energy direction. The addition of over 72 GW of new capacity globally demonstrates the sector's resilience and the trust that governments, investors, and communities continue to place in wind power as a cornerstone of sustainable progress.

At the World Wind Energy Association (WWEA), we are proud to see our members and partners driving this momentum, especially across emerging markets where policy, innovation, and community engagement are increasingly aligned. The significant surge

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in China's installations underlines the value of long-term policy stability and industrial strength – lessons that other nations can adapt to their own contexts.

Looking ahead, WWEA remains committed to ensuring that this growth is inclusive, community-centered, and globally harmonized. Our focus extends beyond capacity numbers: we are working with governments, multilateral organizations, and local stakeholders to integrate social, environmental, and economic dimensions into wind energy development. WWEA is launching the community engagement guidelines in its upcoming World Wind Energy Conference WVEC2025 in China. This will be a defining opportunity to translate this momentum into action – uniting policymakers, industry leaders, and communities to shape a just and accelerated transition toward a 100% renewable energy future.

Together, we reaffirm that wind energy is not only an economic or technological solution – it is a moral imperative for our planet and future generations.

WWEA Secretary General Stefan Gsänger:

The world stands at a decisive energy crossroads.

On one path are the countries that have chosen a clear course toward a fully renewable energy future — led by China, Brazil, and parts of Europe. Many of these countries have established long-term, stable policy frameworks that enable sustained growth of the wind sector and other renewables. Many of them have already set comprehensive strategies for achieving a 100% renewable energy system.

On the other path are countries that are attempting to reverse progress by reviving fossil-based approaches. In these places, including the United States with its new political leadership, the offshore wind sector in particular has suffered significant setbacks, often under pressure from strong fossil fuel and nuclear interest groups.

Given the clear economic, social, and environmental advantages of wind power as a cornerstone of a renewable energy system, the main obstacles to progress today come not from technology or economics, but from vested interests seeking to preserve outdated energy models.

Renewable energy offers vast and undeniable benefits to the great majority of countries and people worldwide. The choice before us is therefore clear — and most countries will find that the path toward a renewable future is not only the right one, but the inevitable one.