



US wind energy monitor 2024 year in review

Joint report from Wood Mackenzie and
the American Clean Power Association



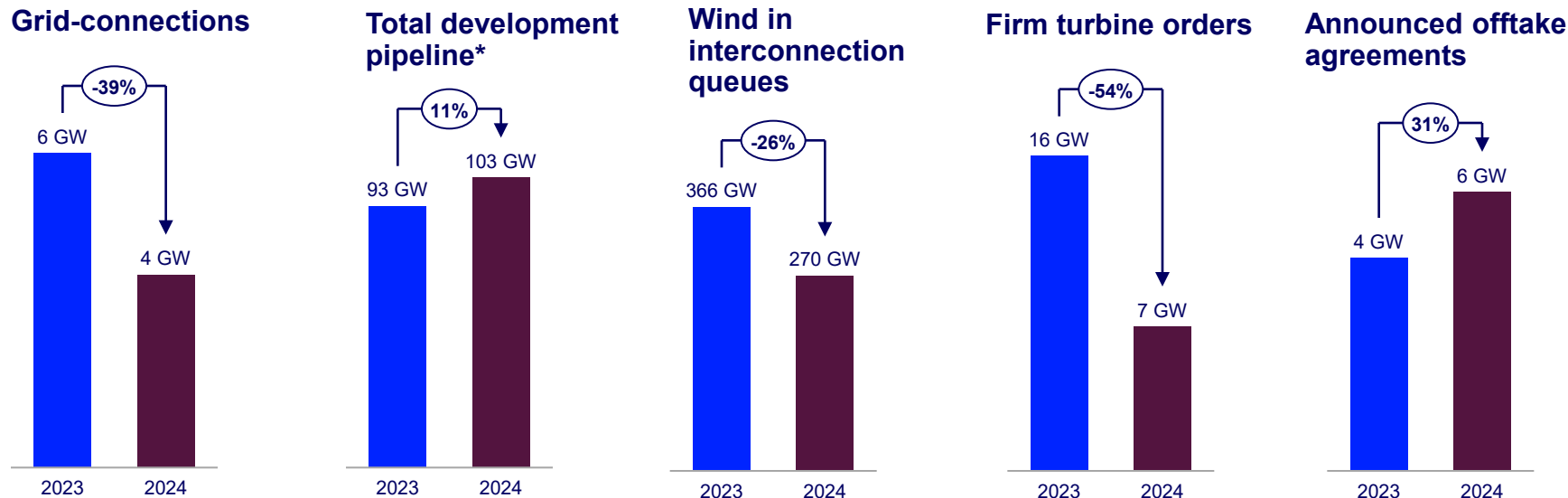
Executive summary

Key takeaways

- 1 Developers added 3.9 GW of onshore capacity in 2024, marking the lowest level for onshore wind in the US over the last decade. Asset owners repowered 1.2 GW of onshore capacity in 2024, while developers installed 101 MW of offshore wind capacity.
- 2 From 2025 through 2029, developers will install 33 GW of new onshore wind capacity, along with 6.6 GW of new offshore capacity and 5.5 GW of repowers. This five-year outlook of gross additions represents a 40% decrease quarter-on-quarter from a previous total of 75.8 GW.
- 3 The headwinds impacting the US wind industry will not ease any time soon, as uncertainty introduced by the new administration causes project delays, strategy shifts, and challenges to project economics through executive orders and tariffs. These headwinds affect at least 11 GW of onshore and 9 GW of offshore wind projects through Q1 2025.
- 4 Load growth estimated at roughly 2% per year offers some upside opportunity as data centres and manufacturing drive a need for additional generation capacity across all technologies.



Assuming a two-year lag for installations, strong order intake in 2023 and surge in PPA deals in 2024 support a modest rebound in annual capacity additions in 2025

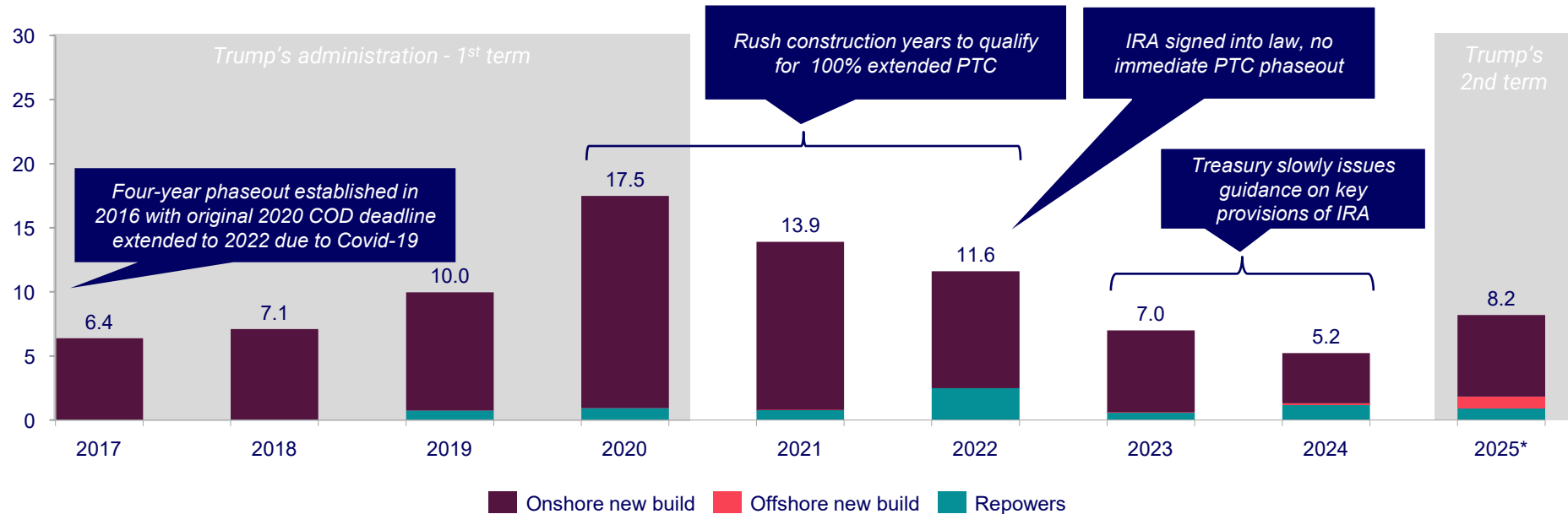


Source: Wood Mackenzie. [Global wind turbine order analysis: Q1 2025](#) , [Global Renewable Energy Offtake Tracker](#)

Note: Total development pipeline available in [LENS Wind](#).

US cumulative onshore wind to reach 160 GW by 2025 despite record-low 2024 installations

Current installed onshore and offshore wind capacity, through 2017 - 2025 (GW)



Note: Only full and traditional repowers are included in the 5-year outlook. * Expected. Wind projects that began construction in 2020 were eligible for the 100% PTC with 2021 and 2022 COD
Source: Wood Mackenzie

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