

INDUSTRY REPORT · WIND ENERGY

# Offshore Wind Market Report: Foundations, Supply Chain, and Cost Trajectory

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38 pages

GLOBAL PIPELINE

## 410 GW

An assessment of offshore wind foundation technology trends, global supply chain capacity constraints, and levelized cost trajectory across fixed-bottom and floating segments.

## Supply Chain Remains the Binding Constraint

Global offshore wind installation vessel and port infrastructure capacity remains the most frequently cited constraint on project delivery timelines across major markets, more so than turbine or foundation manufacturing capacity, which has generally scaled ahead of near-term demand in most regions tracked in this report.

Floating wind projects moving toward commercial scale face a distinct supply chain bottleneck around deepwater quay infrastructure suitable for platform assembly and commissioning, a constraint largely absent from the fixed-bottom segment's more established port infrastructure base.

## Cost Trajectory by Segment

Fixed-bottom offshore wind levelized cost has continued a gradual decline as turbine scale increases and installation processes mature, though recent commodity price volatility has introduced more cost variability into new project bids than the technology's longer-term downward trend would suggest in isolation.

Floating wind costs remain meaningfully above fixed-bottom levels, consistent with its earlier stage of commercial deployment, with the cost gap expected to narrow over the coming decade as platform designs standardize and supply chain scale develops, following a trajectory broadly consistent with fixed-bottom wind's own historical cost reduction pattern.

