

Greece Wind Energy - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-07-01 | 95 pages | Mordor Intelligence

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Report description:

Greece Wind Energy Market Analysis

The Greece Wind Energy Market size in terms of installed base is expected to grow from 5.82 gigawatt in 2025 to 10.5 gigawatt by 2030, at a CAGR of 12.53% during the forecast period (2025-2030).

In Greece, current momentum is anchored in the National Energy and Climate Plan that seeks 9.2 GW of installed wind capacity by 2030, firmly positioning the country as a power exporter in the Eastern Mediterranean. Investor confidence is reinforced by wind and solar supplying nearly 50% of domestic electricity demand in 2024. A 100% onshore project mix today is gradually giving way to offshore pilots as floating foundation technology matures, while utility-scale projects dominate the build-out path due to economies of scale and favorable auction rules. Larger turbines above 5 MW are gaining share because they lower the levelized cost of energy in Greece's mountainous and island terrains. Rising foreign capital, EU Recovery and Resilience Facility grants, and expanded grid interconnections combine to reinforce the long-term growth trajectory and to mitigate curtailment risks on the Aegean islands.

Greece Wind Energy Market Trends and Insights

Supportive Feed-in Premiums & RES Auctions Under NECP

Greece's sliding premium scheme guarantees a stable revenue floor, bridging the gap between reference and market prices while

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preserving spot-price signals. This approach underpinned the country's 57% renewable electricity share in 2023 and catalyzed competitive bidding that drove tariffs down. Predictable cash flows have lured international capital, illustrated by Masdar's 2024 acquisition spree and Amazon's 2024-2025 corporate power-purchase commitments. Auction discipline and premium degradation create a virtuous cycle: developers sharpen cost structures, the government limits subsidy outlays, and consumers gain from lower wholesale prices. Over time, premium volumes taper as merchant exposure rises, gradually integrating wind assets into Greece's liberalized power market.

Raised NECP 2030 Target to 9.2 GW Wind Capacity

The revised target accelerates onshore additions to 8.9 GW and installs 1.9 GW offshore capacity by 2030. Implementation hinges on synchronized spending across generation, transmission, and storage. The Independent Power Transmission Operator (IPTO) is earmarking EUR 4.1 billion to reinforce the backbone grid so that 28 GW of renewable capacity can ride through. Complementary legislation passed in 2024 created a dedicated offshore zoning and permitting pathway aligned with floating technologies suited to the Aegean's deep waters. Smoother permitting and grid readiness raise investor confidence and ensure accrual of first-mover advantages in an increasingly crowded Mediterranean offshore arena.

Lengthy Multi-Agency Permitting Timelines

Typical lead times exceed 3-5 years because approvals traverse ministries, environmental bodies, archaeological services, and the military. Digital one-stop shops enacted in 2024 promise relief, yet field reports reveal uneven rollout across prefectures. Projects in NATURA 2000 zones endure heightened scrutiny: Skyros' 300 MW plan has stalled over bird-habitat concerns. For offshore arrays, marine spatial planning, fishing-fleet negotiations, and defence radar assessments layer extra complexity, prompting developers to front-load site screening and allocate larger contingency budgets.

Other drivers and restraints analyzed in the detailed report include:

Falling LCOE for More Than 5 MW Onshore Turbines / EU Recovery & Resilience Facility Funding Inflow / Grid Congestion & Curtailment on Aegean Islands /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Onshore wind capacity totaled 5.816 GW in 2025, translating into a 100% share of Greece's wind energy market. Long-established permitting routines, lower capital intensity, and well-trodden supply chains keep onshore sites attractive, particularly across mainland ridgelines and Northern Greece. Robust auction volumes in 2023-2024 signaled policy continuity and secured grid queue positions for at least 1.2 GW of fresh onshore projects by 2027. IPTO's substation upgrades in Thrace and Macedonia shorten lead times for connection agreements, ensuring developers can exploit high-wind corridors without excessive curtailment risk.

Offshore wind has no commissioned capacity, yet it posts a remarkable 61% forecast CAGR to 2030. Greece's wind energy market size for offshore projects is expected to breach 1 GW by 2029 as floating technology overcomes depth constraints. RF Energy's EUR 2 billion Limnos plan and Kopelouzos Group's Thracian Sea array headline the first wave of licensed projects. Regulatory clarity arrived with the 2024 offshore law that designates Aegean zones and spells out leasing, environmental, and interconnection steps. Although heavy-lift vessel bottlenecks linger, the country's shipbuilding heritage offers a domestic content angle that could trim logistics costs over the long term.

The Greek Wind Energy Market Report is Segmented by Location of Deployment (Onshore and Offshore), by Application

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(Utility-Scale, Commercial and Industrial, and Community Projects), by Turbine Capacity Range (Less Than 3 MW, 3 To 5 MW, Above 5 MW), The Market Size and Forecasts are Provided in Terms of Installed Capacity (GW).

List of Companies Covered in this Report:

Terna Energy SA / Iberdrola Rokas SA / Vestas Wind Systems A/S / Siemens Gamesa Renewable Energy SA / Nordex SE / General Electric (Vernova) / Enercon GmbH / Enel Green Power Hellas / EDF Renewables Hellas / Ellaktor SA / EREN Renewables / wpd AG / RWE Renewables Hellas / Volterra SA / Mytilineos Energy & Metals / Hellenic Petroleum Renewables / Eunice Energy Group / Cubico Sustainable Investments / Masdar / juwi Hellas /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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