

## **Republic Of Ireland Renewable 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:**

Republic Of Ireland Renewable Energy Market Analysis

The Republic Of Ireland Renewable Energy Market size in terms of installed base is expected to grow from 8.07 gigawatt in 2025 to 22.46 gigawatt by 2030, at a CAGR of 22.72% during the forecast period (2025-2030).

This growth aligns with the country's legally binding target of 80% renewable electricity by 2030, anchored in the Climate Action and Low Carbon Development Act 2021. Wind already accounted for 33% of national electricity generation in 2024, and data-center electricity demand-21% of total metered consumption in 2023-continues accelerating renewable project commitments. Corporate power-purchase agreements (PPAs), robust RESS auctions, and a EUR 1 billion commitment to offshore transmission upgrades reinforce positive momentum. While grid congestion and planning delays temper the outlook, capital inflows remain strong, demonstrated by Power Capital Renewable Energy's EUR 220 million financing for 300 MW of solar farms .

Republic Of Ireland Renewable Energy Market Trends and Insights

Accelerated Offshore-Wind Leasing in the Celtic & Irish Seas

Government approval of the South Coast Designated Maritime Area Plan in October 2024 delineated four new offshore wind zones, starting with the 900 MW Tonn Nua project . A national goal of 5 GW offshore wind by 2030, and 37 GW by 2050, has attracted partnerships such as Orsted-ESB targeting 5 GW of capacity. The second Offshore Renewable Energy Support Scheme

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auction will offer another 900 MW, underscoring durable policy backing. A EUR 1 billion offshore grid upgrade announced in April 2025 tackles the transmission gap that once constrained projects. Interest in floating platforms opens deeper Atlantic zones to future development.

#### Government-Backed Renewable Electricity Support Scheme (RESS) Auctions

The RESS mechanism is Ireland's chief deployment lever. RESS 4 awarded 960 MW of solar capacity in September 2024, exceeding expectations. RESS 5, launched in May 2025, lengthens contract terms and adds full indexation to mitigate inflation risk. Separate community and storage categories maintain social buy-in, and a EUR 251.79 million PSO levy funds awarded contracts. Wind Energy Ireland continues to lobby for 20-year tenors to further de-risk investment .

#### Grid Congestion in South-West & West Coastal Nodes

EirGrid's weekly operational updates chronically flag these corridors for dispatch-down when wind exceeds 2,000 MW, suppressing capacity factors. ESB Networks' 20 kV upgrade alleviates local circuits but not the bulk-transfer deficit to Dublin load centers. The April 2025 offshore grid package prioritises South Coast links, yet inland reinforcements remain a prerequisite for onshore build-out.

Other drivers and restraints analyzed in the detailed report include:

Corporate PPAs Driving Utility-Scale Solar Build-out / Hydrogen-Ready Transmission Grid Investments / Slow Planning Approval Processes for Large-Scale Projects /

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

#### Segment Analysis

Wind energy delivered 58.6% of the Republic of Ireland's renewable energy market share in 2024, confirming its role as the backbone of supply. Solar's 34.4% CAGR means its contribution to the Republic of Ireland's renewable energy market size will rise sharply by 2030. Hydropower and pumped storage provide indispensable grid inertia, while bioenergy projects aim for 5.7 TWh of biomethane production. Emerging tidal and wave prototypes tap Ireland's 3,000 MW theoretical marine resource.

Diversification reflects cost convergence. RESS 4's 960 MW solar award signalled competitiveness relative to onshore wind. Repowering legacy turbines from 1-2 MW to 4-6 MW units lifts specific output and extends operational life. Biomethane plants such as Greengate Biogas's Powerstown facility align with agricultural waste valorization. Each step widens the Republic of Ireland's renewable energy market, mitigating overreliance on any single technology.

The Republic of Ireland Renewable Energy Market Report is Segmented by Type (Wind, Solar, Hydro, Bioenergy, and Other Renewables) and End-User (Utility, Commercial and Industrial, and Residential). The Market Sizes and Forecasts are Provided in Terms of Installed Capacity (GW).

List of Companies Covered in this Report:

Statkraft Ireland Ltd / Electricite de France SA (EDF Renewables) / RES Group UK & Ireland Ltd / Mainstream Renewable Power Ltd / Orsted A/S / Energia Group / SSE Renewables (SSE plc) / ESB Generation & Trading / Bord Gais Energy (Centrica plc) / Greencoat Renewables plc / Brookfield Renewable Partners L.P. / ABO Wind AG / Vestas Wind Systems A/S / Simply Blue Group / Lightsource BP Renewables / BayWa r.e. Ireland Ltd / NTR plc / DP Energy Ireland Ltd / Neoen S.A. / Galettech Energy Developments /

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## Additional Benefits:

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

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