

United Kingdom Renewable Energy - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

United Kingdom Renewable Energy Market Analysis

The United Kingdom Renewable Energy Market size in terms of installed base is expected to grow from 61.21 gigawatt in 2025 to 91.85 gigawatt by 2030, at a CAGR of 8.46% during the forecast period (2025-2030).

Rapid deployment aligns with the Clean Power 2030 Action Plan that targets 95% clean electricity generation, reinforcing energy-security ambitions while cutting fossil-fuel imports . Renewables supplied 46.4% of national electricity in 2024, overtaking gas for the first time and underscoring structural demand for low-carbon power. Drivers include offshore wind leadership, falling solar PV capex, and long-dated revenue certainty from the Contracts-for-Difference (CfD) scheme. Investment appetite remains strong as policy clarity, corporate power-purchase agreements, and grid-upgrade commitments improve project bankability.

United Kingdom Renewable Energy Market Trends and Insights

Offshore-wind CfD strike-price resets accelerating the North Sea pipeline

After the previous zero-bid outcome, the government raised strike prices in Allocation Round 6, restoring commercial viability and contracting 5.3 GW of new capacity, including Hornsea 3 and 4. Predictable annual auctions of 6-8 GW underpin supply-chain scaling and have lifted the North Sea development pipeline above 37 GW, supporting the 50 GW by 2030 target .

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Contracts-for-Difference scheme providing revenue certainty

Since its inception, the two-way CfD mechanism now backs over 40% of national renewable generation and has mobilized over GBP 100 billion of private capital. Expanding eligibility to tidal streams and floating wind broadens technology coverage and continues to lower the weighted cost of capital for large projects.

National Grid queue bottlenecks causing five-year connection delays

The connection queue has ballooned to 739 GW, with some projects assigned 2035 dates. Ofgem's TMO4+ "first ready, first connected" reforms and the GBP 31 billion Great Grid Upgrade aim to free 500 GW of capacity, yet material relief will appear only after near-term reinforcements such as the GBP 4.3 billion Eastern Green Link 2 cable.

Other drivers and restraints analyzed in the detailed report include:

Rise of corporate PPAs from UK data-centre and industrial off-takers / Ofgem RIIO-ED2 grid-upgrade commitments boosting distributed solar / Reduced Smart-Export-Guarantee tariff hitting rooftop solar ROI /

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

Segment Analysis

Wind contributed 53% of 2024 generation, anchored by high-capacity-factor offshore sites such as the 3.6 GW Dogger Bank complex, while solar posts the fastest 2025-2030 CAGR at 11.2% . Advanced 15 MW turbines and fixed-plus-floating foundations extend wind's edge, but streamlined planning and mandated rooftop deployment from 2025 propel solar's catch-up. Hydro and bioenergy remain steady contributors; the latter awaits commercial bioenergy with carbon capture and storage after 2030. Innovation funding for tidal stream and wave technologies positions the UK renewable energy market for diversified long-term growth.

The solar surge and cost-effective rooftop systems encourage residential and corporate uptake, while tidal stream demonstrators and floating wind prototypes open new resource areas. These shifts ensure the UK renewable energy market continues to rebalance source contributions beyond the current wind-led profile.

The United Kingdom Renewable Energy Market Report is Segmented by Source (Wind, Solar, Hydro, Bioenergy, and Other), Installation Scale (Above 10 MW, 100 KW To 10 MW, and Below 100 KW), and End-User Sector (Utilities, 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:

SSE Renewables / Orsted A/S / ScottishPower Renewables (Iberdrola SA) / RWE Renewables GmbH / Vattenfall AB / EDF Energy / Statkraft AS / RES Group Ltd. / Brookfield Renewable Partners / Greencoat UK Wind PLC / Bluefield Solar Income Fund / Octopus Renewables Infrastructure Trust / NextEnergy Solar Fund / Equinor ASA / TotalEnergies SE / Siemens Gamesa Renewable Energy SA / Vestas Wind Systems A/S / GE Vernova / Lightsource BP / Drax Group PLC /

Additional Benefits:

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

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