

Egypt Renewable Energy - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

Market Report | 2026-01-16 | 95 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

Egypt Renewable Energy Market Analysis

The Egypt Renewable Energy Market was valued at 9.81 gigawatt in 2025 and estimated to grow from 11.79 gigawatt in 2026 to reach 29.64 gigawatt by 2031, at a CAGR of 20.23% during the forecast period (2026-2031).

The Egyptian renewable energy market is expanding because policymakers introduced the national target to source 42% of electricity from renewables by 2030. Continued multilateral finance, abundant solar irradiance of about 2,600 kWh/m² in southern governorates, and world-class 55% wind capacity factors along the Gulf of Suez sustain robust project pipelines. Utility-scale schemes still capture 88% of installed capacity, yet distributed rooftops and captive plants record the fastest expansion. The government's allocation of 41,700 km² for green-hydrogen-linked solar and wind projects underpins a future export platform for low-carbon fuels.

Egypt Renewable Energy Market Trends and Insights

Supportive Government Targets & Incentives

The National Low-Carbon Hydrogen Strategy announced in August 2024 estimates a USD 18 billion GDP uplift by 2040 and more than 100,000 new jobs. Public-sector capital re-allocation means half of FY 2024/2025 investment spending is earmarked for green projects compared with 15% three years earlier. The "Golden Licence" regime under Investment Law 72/2017 condenses

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott-international.com

www.scott-international.com

permitting to a single window, accelerating bankable projects that meet export or import-substitution thresholds. Under the NWFE platform, USD 14.5 billion of concessional finance has flowed to renewables since 2020, with USD 3.9 billion channelled to private developers. Feed-in tariffs ranging from 84.8 Pt/kWh for sub-200 kW systems to 102.5 Pt/kWh for 20-50 MW plants ensure predictable revenues.

Abundant Solar Irradiance & High-CF Wind Corridors

Southern Egypt registers solar brightness near 2,600 kWh/m² annually, placing the Egyptian renewable energy market among the world's most resource-rich solar provinces. Red Sea wind corridors exceed 7 m/s, delivering 55% to 63% capacity, enabling levelised costs below USD 0.08/kWh for offshore arrays. Benban Solar Park, a 1.5 GW complex over 37 km², showcases utility-scale density and cost discipline. With resource synergies, hybrid solar-wind sites support 24-hour hydrogen electrolyser operation targeting USD 1.7/kg production by 2050. Such natural advantages anchor the long-term competitiveness of the Egyptian renewable energy industry.

Grid Congestion & Transmission Bottlenecks

Legacy networks designed for centralised gas turbines strain as renewable penetration edges beyond 3.5 GW, mirroring global queues of 3,000 GW awaiting interconnection. Egypt's wide-area monitoring rollout across 220/500 kV lines lifts visibility but earmarks capital needs approaching USD 600 billion globally by 2030. The 3,000 MW Egypt-Saudi HVDC link scheduled for 2025 provides critical redundancy for variable flows. Planned Libya and Cyprus interconnectors of up to 3,000 MW each could turn Egypt into a regional balancing hub, yet rely on timely domestic grid upgrades. Distribution-level constraints and limited smart-meter penetration still curb the rapid uptake of small-scale generation in the Egyptian renewable energy market.

Other drivers and restraints analyzed in the detailed report include:

Multilateral Climate-Finance Inflows
Green-Hydrogen Export MoUs Triggering Additional Capacity
FX Depreciation Inflates Imported Equipment Costs

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

Segment Analysis

Wind posted a 35.10% share of Egypt renewable energy market size in 2025 and is set for a 31.05% CAGR through 2031 as the Gulf of Suez corridor continues to deliver 40%-plus capacity factors. Hydropower anchored by the 2.1 GW Aswan High Dam retains the largest single-asset footprint but loses share as environmental and transboundary concerns block new dams. Solar PV and CSP supplied roughly 27.84% of capacity in 2025 and will add 8 GW by 2031 on the back of USD 0.12 / W bifacial modules.

Developers prioritize wind for hydrogen because 35%-plus utilization is essential to keep electrolyzer costs down, a threshold solar seldom meets. ACWA Power's 1.1 GW Suez project, equipped with 138 Envision 6 MW turbines, is contracted to a 400 MW electrolyzer that will export green ammonia to Rotterdam. ENGIE's 650 MW Red Sea Wind farm added two-hour lithium-ion storage to move power to evening peaks, showcasing hybrid revenue stacking. Pumped-storage options advance slowly due to USD 3.8 billion capital needs and seven-year timelines, while CSP adoption stalls under water scarcity and price competition from solar-plus-battery layouts.

The Egypt Renewable Energy Market Report is Segmented by Technology (Solar Energy, Wind Energy, Hydropower, Bioenergy, Geothermal, and Ocean Energy) and End-User (Utilities, Commercial and Industrial, and Residential). The Market Sizes and Forecasts are Provided in Terms of Installed Capacity (GW).

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

List of Companies Covered in this Report:

Vestas Wind Systems A/S Siemens Gamesa Renewable Energy S.A. General Electric Renewable Energy Envision Energy Scatec
ASA ACWA Power Masdar (Abu Dhabi Future Energy) SkyPower Global Infinity Power Lekela Power Toyota Tsusho Corporation
JinkoSolar Holding Co., Ltd. Elsewedy Electric Co. SAE Orascom Construction PLC New & Renewable Energy Authority (NREA)
Hassan Allam Utilities Siemens Energy Egypt EDF Renewables TotalEnergies Renewables Engie Egypt

Additional Benefits:

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

Table of Contents:

- 1 Introduction
 - 1.1 Study Assumptions & Market Definition
 - 1.2 Scope of the Study
- 2 Research Methodology
- 3 Executive Summary
- 4 Market Landscape
 - 4.1 Market Overview
 - 4.2 Market Drivers
 - 4.2.1 Supportive government targets & incentives
 - 4.2.2 Abundant solar?irradiance and high?CF wind corridors
 - 4.2.3 Multilateral climate-finance inflows (EBRD, IFC, Green Bonds)
 - 4.2.4 Green-hydrogen export MoUs triggering additional capacity
 - 4.2.5 Thermal-plant de-risking frees grid headroom
 - 4.2.6 Rising corporate PPAs from data-centric & industrial clusters
 - 4.3 Market Restraints
 - 4.3.1 Grid congestion & transmission bottlenecks
 - 4.3.2 Land-banking delays in designated renewable zones
 - 4.3.3 FX depreciation inflates imported equipment costs
 - 4.3.4 Water-scarcity risk for CSP / hybrid-cooling projects
 - 4.4 Supply Chain Analysis
 - 4.5 Regulatory Landscape
 - 4.6 Technological Outlook
 - 4.7 Porter's Five Forces
 - 4.7.1 Bargaining Power of Suppliers
 - 4.7.2 Bargaining Power of Buyers
 - 4.7.3 Threat of New Entrants
 - 4.7.4 Threat of Substitutes
 - 4.7.5 Competitive Rivalry
 - 4.8 PESTLE Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5 Market Size & Growth Forecasts

5.1 By Technology

5.1.1 Solar Energy (PV and CSP)

5.1.2 Wind Energy (Onshore and Offshore)

5.1.3 Hydropower (Small, Large, PSH)

5.1.4 Bioenergy

5.1.5 Geothermal

5.1.6 Ocean Energy (Tidal and Wave)

5.2 By End-User

5.2.1 Utilities

5.2.2 Commercial and Industrial

5.2.3 Residential

6 Competitive Landscape

6.1 Market Concentration

6.2 Strategic Moves (M&A, JVs, Funding, PPAs)

6.3 Market Share Analysis (Market Rank/Share for key companies)

6.4 Company Profiles (includes Global-level Overview, Market-level Overview, Core Segments, Financials, Strategic Information, Products & Services, Recent Developments)

6.4.1 Vestas Wind Systems A/S

6.4.2 Siemens Gamesa Renewable Energy S.A.

6.4.3 General Electric Renewable Energy

6.4.4 Envision Energy

6.4.5 Scatec ASA

6.4.6 ACWA Power

6.4.7 Masdar (Abu Dhabi Future Energy)

6.4.8 SkyPower Global

6.4.9 Infinity Power

6.4.10 Lekela Power

6.4.11 Toyota Tsusho Corporation

6.4.12 JinkoSolar Holding Co., Ltd.

6.4.13 Elsewedy Electric Co. SAE

6.4.14 Orascom Construction PLC

6.4.15 New & Renewable Energy Authority (NREA)

6.4.16 Hassan Allam Utilities

6.4.17 Siemens Energy Egypt

6.4.18 EDF Renewables

6.4.19 TotalEnergies Renewables

6.4.20 Engie Egypt

7 Market Opportunities & Future Outlook

7.1 White-space & Unmet-need Assessment

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Egypt Renewable Energy - Market Share Analysis, Industry Trends & Statistics,
Growth Forecasts (2026 - 2031)**

Market Report | 2026-01-16 | 95 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-01"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

