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

Market Report | 2026-02-09 | 120 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:

Algeria Renewable Energy Market Analysis

Algeria Renewable Energy Market size in 2026 is estimated at 2.23 gigawatt, growing from 2025 value of 1.53 gigawatt with 2031 projections showing 14.59 gigawatt, growing at 45.60% CAGR over 2026-2031.

Ambitious targets in the National Program for the Development of Renewable Energies, the repeal of the 51/49 foreign-ownership rule, and the creation of the Ministry of Energy Transition and Renewable Energies have opened substantial headroom for private and foreign capital. Solar still dominates because Algeria enjoys solar irradiation above 2,200 kWh/m?/yr; however, utility-scale wind, green hydrogen, and hybrid CSP-PV systems are increasingly diversifying the supply mix. Policy refinements, such as streamlined tender rules and Islamic Green Sukuk, lower capital-cost hurdles, while falling LCOE for TOPCon PV and larger turbine classes reduce lifetime generation costs. Finally, Algeria's proximity to Europe, combined with the SoutH? Corridor, positions Algeria's renewable energy market as a strategic export platform into hydrogen-hungry EU states.

Algeria Renewable Energy Market Trends and Insights

Ambitious 2030 Target of 15 GW Renewables

Algeria's statutory goal of installing 15,000 MW by 2035 underpins the Algeria renewable energy market, and the interim 2030 milestones push procurement schedules forward. SHAEMS, founded in 2020, coordinates foreign joint ventures and accelerates

permitting, yet budget outlays remain under 0.1% of total public spending, leaving a USD 24.8 billion financing gap. Capital-market liberalization and the removal of the 51/49 rule address part of this gap, while multi-technology wind additions temper solar-only grid strain and boost the Algeria renewable energy market's CAGR.

Abundant Solar Irradiance Driving Competitive Advantage

Average insolation above 2,200 kWh/m?/yr and more than 3,500 sunshine hours ensure Algeria's PV capacity factors compete globally. The Algeria renewable energy market, therefore, integrates CSP with thermal storage at sites like Hassi R'Mel to deliver evening power and provide grid inertia. TOPCon modules, such as Astronergy's 1 GW shipment, further lower LCOE and reduce temperature-related derating. High isolation also reduces renewable hydrogen production costs, aligning with EU off-take needs.

Dominance of State Utility Delaying PPAs

Sonelgaz's triple role as offtaker, grid operator, and competitor lengthens PPA negotiations to beyond two years, slowing tender award schedules. Counterparty credit risk also increases financing costs for IPPs, dampening the CAGR of the Algerian renewable energy market.

Other drivers and restraints analyzed in the detailed report include:

EU-Linked Green Hydrogen Export CorridorsFalling Levelized Cost of Solar PVDinar Convertibility & FX Risk for Foreign Investors

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

Segment Analysis

Solar retained a 61.95% share of the Algerian renewable energy market in 2025, contributing 947.8 MW to the country's renewable energy market size, while onshore wind closed the year at only 52 MW. Yet wind capacity is scheduled to jump to 5,010 MW by 2031, posting a 113.90% CAGR that narrows the share gap. Southern CSP projects, such as Hassi R'Mel, integrate three-hour molten-salt storage, proving dispatchability in a region with over 2,200 kWh/m?/yr irradiation.

The shift toward wind stems from complementary generation profiles; strong coastal breezes peak in the late afternoon, smoothing solar-driven midday peaks and limiting curtailment. Turbine OEMs now offer machines with 5+ MW of IEC Class III capacity, suited for low-density Saharan winds, which increases generation per foundation and mitigates logistical constraints. Hybrid PV-wind systems cut substation CAPEX by 12-15%, enhancing total project returns. Hydropower and bioenergy together account for less than 2% of Algeria's renewable energy market, constrained by arid hydrology and limited biomass logistics. However, pilot pumped-storage schemes in Kabylie may unlock time-shifted renewable firming post-2030.

The Algeria 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).

List of Companies Covered in this Report:

SKTM Spa Sonelgaz Renewables (SH) Algerian Solar Company Zergoun Green Energy Condor Electronics Total Eren Algerie Masdar (ADF-Sonatrach JV) Voltalia Algerie SpA Scatec Solar Algerie THERMAL Sarl CEGELEC Algerie (VINCI Energies) Schneider Electric Algerie Enie (Energie Nouvelle Industrie Electronique) SMA Solar Algeria Huawei Digital Power Algerie Siemens Gamesa North Africa Eneris Group SunRef Algeria Programme Partners Faderco Green Energy Aures Solar

Additional Benefits:

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

Table of Contents:

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

Market Report | 2026-02-09 | 120 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*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-03
		Signature