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

Market Report | 2026-02-09 | 125 pages | Mordor Intelligence

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Report description:

Egypt Solar Energy Market Analysis

The Egypt Solar Energy Market was valued at 3.59 gigawatt in 2025 and estimated to grow from 4.28 gigawatt in 2026 to reach 10.28 gigawatt by 2031, at a CAGR of 19.18% during the forecast period (2026-2031).

Robust solar irradiation that exceeds 2,000 kWh/m□/year across vast desert zones, a clear government target of 42% renewable power by 2030, and deep pools of development-bank finance anchor the upward trajectory of the Egyptian solar energy market. International financiers led by the International Finance Corporation and the African Development Bank are funnelling low-cost capital into utility projects, while tariff revisions have strengthened the economics of commercial and industrial (C&I) self-consumption schemes. Localized manufacturing, exemplified by an 8 GW cell-and-module complex in New Alamein, offers a hedge against foreign-exchange swings and may eventually cut module import bills by 15-20% once scaled. Hybrid solar-plus-storage and green-hydrogen chains are emerging as the next growth layer, underpinned by Egypt's USD 40 billion hydrogen roadmap and prime export corridors through the Suez Canal Economic Zone.

Egypt Solar Energy Market Trends and Insights

Supportive Government Incentives & FIT Revisions

Egypt's recalibrated feed-in tariff (FIT) now balances developer margins with fiscal prudence, a shift amplified by the pledge to

allocate 50% of public spending to green projects by FY 2025. New FIT bands sit comfortably below the average commercial grid tariff of 233 Pt/kWh, yet still deliver sub-six-year paybacks for well-sited arrays in sun-rich desert zones. The NWFE programme has mobilised 4.2 GW of bankable solar capacity, signalling policy credibility. As subsidies for conventional power are phased down, C&I entities are accelerating rooftop and ground-mount procurements to lock in long-term cost certainty. These reforms collectively uplift the Egyptian solar energy market by widening the pool of investable projects and compressing financing spreads.

High Solar-Irradiation Levels Across Desert Zones

Irradiation above 2,200 kWh/m□/year in Upper Egypt delivers capacity factors that rival leading global solar regions, easing the levelised cost of electricity below USD 25/MWh for the largest sites.Desert land availability side-steps the use-conflict issues that slow projects elsewhere, enabling mega-complexes such as the Benban cluster to exploit one-stop grid corridors. Recent agrivoltaic trials show yield increases in tomato and wheat crops of 10-15% when partial shading is applied, confirming dual-use land efficiency. Coupling high-insulation deserts with major consumption hubs via upgraded 500 kV lines further elevates project bankability. Long-run, unencumbered solar potential sits at 52 GW, nearly 18□ current capacity, providing an enormous runway for the Egyptian solar energy market.

Growing Wind Share in Egypt's Generation Mix

Ten-gigawatt wind concessions in the Gulf of Suez now absorb grid capacity once earmarked for solar, tightening tender volumes and raising bid competition. Capacity factors above 50% on the Red Sea coast help wind clear tariffs nearly USD 4/MWh lower than new PV at peak sunlight, skewing public-procurement preference. In auction rounds, wind has won two-thirds of awarded megawatts since 2024. While hybrid layouts exist, grid planners still schedule wind priority dispatch in coastal nodes, indirectly capping near-term additions to the Egyptian solar energy market.

Other drivers and restraints analyzed in the detailed report include:

Rising International FinancingGreen-Hydrogen Roadmap Boosting Utility DemandFX Volatility Driving Up Imported Module Costs

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

Segment Analysis

Photovoltaics commanded 99.12% of Egypt's solar energy market share in 2025, reflecting turnkey EPC prices below USD 900/kW for single-axis tracking systems, while CSP's negligible baseline supports a 62.9% CAGR yet leaves its absolute footprint small through 2031. Developers see value in CSPs' built-in thermal storage for hydrogen hubs, but capital outlays of USD 3,000-11,000/kW remain a barrier.

Thermal energy storage of 6-15 hours lets CSP dispatch at night and during early-morning industrial peaks, complementing PV's daytime production and potentially trimming battery needs. Still, without a mandated CSP quota or a hydrogen off-take guarantee, financiers continue to favor crystalline-silicon PV for near-term capacity additions.

The Egypt Solar Energy Market Report is Segmented by Technology (Solar Photovoltaic and Concentrated Solar Power), Grid Type (On-Grid and Off-Grid), and End-User (Utility-Scale, 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:

Egyptian Electricity Holding Company KarmSolar Infinity Power Holding Cairo Solar Solariz Egypt ACWA Power Masdar Scatec ASA TotalEnergies Renewables Egypt Engie Africa Canadian Solar JinkoSolar Trina Solar First Solar Suntech Power Huawei Digital Power Siemens Energy (Grid Solutions) Abengoa SA EDF Renewables Sungrow Power

Additional Benefits:

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

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