

Global Solar Irradiance Calculator Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solar Irradiance Calculator market size is predicted to grow from US\$ 242 million in 2025 to US\$ 453 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 2032.

Solar Irradiance Calculator refers to commercial software, cloud platforms, data services and application programming interfaces that calculate, reconstruct, map, analyse and forecast the solar radiation available at a specified location and over a defined time horizon.

Solar Irradiance Calculator should not be treated as a market consisting primarily of simple online calculators. The commercially relevant industry is formed by three overlapping product groups: professional solar-resource data and application programming interfaces, engineering-grade photovoltaic yield and design software, and operational irradiance or power-forecasting platforms. Core outputs include global horizontal, direct normal, diffuse horizontal and plane-of-array irradiance, which are subsequently used in project prospecting, bankable yield assessment, detailed system design, asset benchmarking and grid operations. The broad supplier pool is therefore materially larger than the core formal list. It includes independent solar-data specialists, photovoltaic design platforms with embedded irradiance engines, general weather-data companies, inverter vendors offering free design tools and public-sector resources. The core commercial market, however, is limited to paid software, data subscriptions, APIs and enterprise forecasting services for which irradiance or solar-resource calculation is a material product function. Public platforms such as PVGIS, PVWatts and Global Solar Atlas influence user behaviour and price expectations but are excluded from the commercial revenue model.

The competitive structure is geographically concentrated but technologically segmented. Europe has the deepest cluster of specialist suppliers, including solar-resource data providers, meteorological database developers, bankable photovoltaic simulation vendors and power-forecasting companies. North America is comparatively stronger in cloud-based design workflows, distributed-solar software and enterprise APIs. Dedicated data providers compete on long-term consistency, spatial and temporal resolution, validation methodology and acceptance by engineers and lenders. Design-software companies compete on workflow efficiency, three-dimensional shading, electrical configuration, component databases and the ability to translate irradiance into project-specific energy yield. Forecasting companies compete on satellite cloud tracking, numerical weather prediction, machine learning, update frequency and portfolio-scale delivery. Chinese suppliers are important in the broader digital photovoltaic ecosystem, but publicly verifiable independent commercial solar-resource software remains limited; the clearest domestic products are currently design tools embedded in inverter and smart-energy platforms rather than standalone bankable data businesses.

Demand is supported by the continuing expansion and geographic diversification of photovoltaic deployment. IEA PVPS estimated that at least 608 GW and potentially as much as 698 GW of new photovoltaic capacity was installed in 2025, with close to forty national markets reaching at least one gigawatt of annual additions. This creates more development sites, engineering studies, financing processes and operating portfolios that require resource data and performance models. Revenue growth will nevertheless remain slower than installed-capacity growth because a single software platform can process many projects and free public tools are adequate for basic screening. The faster-growing commercial segments are expected to be high-resolution APIs, bankable long-term datasets, probabilistic P50/P90 analytics, satellite-based nowcasting, grid and market forecasting, climate-adjusted resource analysis and integrations between resource data, design software and asset-management systems. Product differentiation will increasingly depend on documented uncertainty, measurement validation, terrain and shading accuracy, bifacial modelling and compatibility with enterprise workflows rather than the basic ability to return a solar-radiation value.

Report Scope

LPI (LP Information)' newest research report, the "Solar Irradiance Calculator Industry Forecast" looks at past sales and reviews total world Solar Irradiance Calculator sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Irradiance Calculator sales for 2026 through 2032. With Solar Irradiance

Calculator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Irradiance Calculator industry.

This Insight Report provides a comprehensive analysis of the global Solar Irradiance Calculator landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Solar Irradiance Calculator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Irradiance Calculator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Irradiance Calculator and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Irradiance Calculator.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Irradiance Calculator market by product type, application, key players and key regions and countries.

Segmentation by Type:

Desktop Software

Cloud SaaS Platform

Data and API Service

Others

Segmentation by Data and Modelling Approach:

Satellite-derived Modelling

Ground-measurement-based Modelling

Others

Segmentation by Project Lifecycle Stage:

Prospecting and Site Screening

Feasibility and Bankability

Detailed Design and Engineering

Others

Segmentation by Application:

Solar Developers and EPCs

Engineering Consultants and Lenders

Asset Owners and Operators

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

DNV AS

Solargis s.r.O.

Clean Power Research,L.L.C.

Aurora Solar Inc.

PVsyst SA

PVcase UAB

Meteotest AG

Vaisala Oyj

3E N.V.

Valentin Software GmbH

Meteomatics AG

TRACE Software International

Reuniwatt SAS

UL SolutionsInc.

energy & meteo systems GmbH

Vela Solaris AG

Chengdu Shengsi Te Technology Co., Ltd.

Beijing Bolun Jingwei Technology Development Co., Ltd.

Laplace System Co.,Ltd.

SteadySun SAS

ENFOR A/S

ACCA software S.p.A.

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