

Global Solar Irradiance Calculator Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solar Irradiance Calculator market size was valued at US\$ 255 million in 2025 and is forecast to a readjusted size of US\$ 462 million by 2032 with a CAGR of 8.8% during review period.

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

This report is a detailed and comprehensive analysis for global Solar Irradiance Calculator market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly

changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solar Irradiance Calculator market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Solar Irradiance Calculator market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Solar Irradiance Calculator market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Solar Irradiance Calculator market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Solar Irradiance Calculator

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Solar Irradiance Calculator market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Solar Irradiance Calculator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Desktop Software

Cloud SaaS Platform

Data and API Service

Others

Market segment by Data and Modelling Approach

Satellite-derived Modelling

Ground-measurement-based Modelling

Others

Market segment by Project Lifecycle Stage

Prospecting and Site Screening

Feasibility and Bankability

Detailed Design and Engineering

Others

Market segment by Application

Solar Developers and EPCs

Engineering Consultants and Lenders

Asset Owners and Operators

Others

Market segment by players, this report covers

DNV AS

Solargis s.r.O.

Clean Power Research,L.L.C.

Aurora Solar Inc.

PVsys 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.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Solar Irradiance Calculator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solar Irradiance Calculator, with revenue, gross margin, and global market share of Solar Irradiance Calculator from 2021 to 2026.

Chapter 3, the Solar Irradiance Calculator competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Solar Irradiance Calculator market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Solar Irradiance Calculator.

Chapter 13, to describe Solar Irradiance Calculator research findings and conclusion.

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