

Europe Pyranometer Market Forecast to 2030 - Regional Analysis - by Type (Photovoltaic Pyranometers and Thermopile Pyranometers) and Application (Photovoltaic Systems, Meteorology, and Climate Stations)

<https://marketpublishers.com/r/E876C90027D6EN.html>

Date: February 2024

Pages: 65

Price: US\$ 3,550.00 (Single User License)

ID: E876C90027D6EN

Abstracts

The Europe pyranometer market was valued at US\$ 27.14 million in 2022 and is expected to reach US\$ 54.29 million by 2030; it is estimated to grow at a CAGR of 9.1% from 2022 to 2030.

Increasing Application of Pyranometers in Photovoltaic Systems, Climatology, and Meteorology Fuels the Europe Pyranometer Market

Solar energy is the use of sunlight to generate electricity or heat, and pyranometers are used to measure the amount of available solar energy. In photovoltaic systems, pyranometers are used to measure the solar irradiance that hits the solar panels. This calculated value is used to measure the panels' power output and ensure that they are operating at their maximum efficiency. Additionally, the pyranometer used in the solar energy industry monitors the performance of PV power plants. On the basis of a pyranometer reading, the efficiency of the PV power plant can be determined by comparing the actual power output from the PV power plant to the expected output. Several companies such as Apogee Instruments and Soluzione Solare S.r.l offer pyranometers, which are applied in PV systems. In climatology, pyranometers measure the amount of solar radiation that reaches the Earth's surface. This information is used to study climate change and develop Earth's atmosphere models. Climatology is the study of climate, and pyranometers are used in climatology to measure solar irradiance over long periods. Therefore, the increasing application of pyranometers in photovoltaic systems, climatology, and meteorology is driving the pyranometer market growth.

Europe Pyranometer Market Overview

The pyranometer market is experiencing considerable growth due to the increasing interest of the European Union (EU) in delivering innovative solutions for global health, technology, and climate challenges. In November 2021, the European Council formed a new collaboration between the European Union's Member States and industries to introduce creative solutions to overcome health, transportation, energy, digital technology, and metrology concerns. Moreover, research and innovations in product development are expected to fuel the pyranometer market growth in the region. Several metrological research and development (R&D) organizations are working on pyranometer product developments to reduce soiling losses in PV systems. For instance, in November 2022, an international research group led by Spain's DLR Institute of Solar Research developed Radguard, a novel system that calculated the soiling losses in PV systems. Radguard used a PV reference cell for ~45 minutes at night or a lamp to illuminate a pyranometer. The lamp is secured from soiling by a 25-cm collimator, as scientists stated its importance in maintaining the device's appropriate functioning and the lamp's fixed position.

Europe Pyranometer Market Revenue and Forecast to 2030 (US\$ Million)

Europe Pyranometer Market Segmentation

The Europe pyranometer market is segmented into type, application, and country.

Based on type, the Europe pyranometer market is bifurcated into photovoltaic pyranometers and thermopile pyranometers. The thermopile pyranometers segment held a larger share in 2022.

In terms of application, the Europe pyranometer market is categorized into photovoltaic systems, meteorology, and climate stations. The photovoltaic systems segment held the largest share in 2022.

Based on country, the Europe pyranometer market is France, Germany, the UK, Italy, Russia, and the Rest of Europe. Germany dominated the Europe pyranometer market in 2022.

Apogee Instruments Inc, Campbell Scientific Inc, Delta OHM SRL, Delta-T Devices Ltd, EKO Instruments Co Ltd, Hukseflux Thermal Sensors BV, Lambrecht meteo GmbH, LI-

COR Inc, and OTT HydroMet Corp are some of the leading companies operating in the Europe pyranometer market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. EUROPE PYRANOMETER MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors
- 4.4 Trends in Solar Energy
 - 4.4.1 Europe Solar Market by Region, 2020-2030

5. EUROPE PYRANOMETER MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Drivers
 - 5.1.1 Rising Awareness About Benefits of Using Pyranometer
 - 5.1.2 Increasing Application of Pyranometers in Photovoltaic Systems, Climatology, and Meteorology
 - 5.1.3 Growing Application of Pyranometers in Agriculture Industry
- 5.2 Restraints
 - 5.2.1 Lack of Knowledge Regarding Pyranometers
 - 5.2.2 Relatively High Cost of Thermopile Pyranometers
- 5.3 Opportunity
 - 5.3.1 Government Initiatives to Build New Solar Energy Plant

5.4 Future Trends

5.4.1 Growing Focus on Technological Advancement

6. PYRANOMETER MARKET - EUROPE MARKET ANALYSIS

6.1 Europe Pyranometer Market Revenue (US\$ Million), 2022 - 2030

6.1.1 Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

7. EUROPE PYRANOMETER MARKET ANALYSIS - TYPE

7.1 Silicon Pyranometers

7.1.1 Overview

7.1.2 Silicon Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

7.2 Thermopile Pyranometers

7.2.1 Overview

7.2.2 Thermopile Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)

8. EUROPE PYRANOMETER MARKET ANALYSIS - APPLICATION

8.1 Photovoltaic Systems

8.1.1 Overview

8.1.2 Photovoltaic Systems Market Revenue and Forecasts To 2030 (US\$ Million)

8.2 Meteorology

8.2.1 Overview

8.2.2 Meteorology Market Revenue and Forecasts To 2030 (US\$ Million)

8.3 Climate Station

8.3.1 Overview

8.3.2 Climate Station Market Revenue and Forecasts To 2030 (US\$ Million)

9. EUROPE PYRANOMETER MARKET - COUNTRY ANALYSIS

9.1 Overview

9.1.1 Europe Pyranometer Market, By Key Country- Revenue (2022) (US\$ Mn)

9.1.2 Europe Pyranometer Market Revenue and Forecasts and Analysis - By Countries

9.1.2.1 Germany: Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.1.1 Germany: Europe Pyranometer Market Breakdown by Type

9.1.2.1.2 Germany: Europe Pyranometer Market Breakdown by Application

9.1.2.2 France: Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.2.1 France: Europe Pyranometer Market Breakdown by Type

9.1.2.2.2 France: Europe Pyranometer Market Breakdown by Application

9.1.2.3 Italy: Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.3.1 Italy: Europe Pyranometer Market Breakdown by Type

9.1.2.3.2 Italy: Europe Pyranometer Market Breakdown by Application

9.1.2.4 UK: Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.4.1 UK: Europe Pyranometer Market Breakdown by Type

9.1.2.4.2 UK: Europe Pyranometer Market Breakdown by Application

9.1.2.5 Russia: Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.5.1 Russia: Europe Pyranometer Market Breakdown by Type

9.1.2.5.2 Russia: Europe Pyranometer Market Breakdown by Application

9.1.2.6 Rest of Europe Pyranometer Market Revenue and Forecasts to 2030 (US\$ Mn)

9.1.2.6.1 Rest of Europe Pyranometer Market Breakdown by Type

9.1.2.6.2 Rest of Europe Pyranometer Market Breakdown by Application

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Product Development

11.4 Mergers & Acquisitions

12. COMPANY PROFILES

12.1 Hukseflux Thermal Sensors BV

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Delta OHM SRL

- 12.2.1 Key Facts
- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments

12.3 LI-COR Inc

- 12.3.1 Key Facts
- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments

12.4 OTT HydroMet Corp

- 12.4.1 Key Facts
- 12.4.2 Business Description
- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments

12.5 Lambrecht meteo GmbH

- 12.5.1 Key Facts
- 12.5.2 Business Description
- 12.5.3 Products and Services
- 12.5.4 Financial Overview
- 12.5.5 SWOT Analysis
- 12.5.6 Key Developments

12.6 Apogee Instruments Inc

- 12.6.1 Key Facts
- 12.6.2 Business Description
- 12.6.3 Products and Services
- 12.6.4 Financial Overview
- 12.6.5 SWOT Analysis
- 12.6.6 Key Developments

12.7 Campbell Scientific Inc

- 12.7.1 Key Facts
- 12.7.2 Business Description
- 12.7.3 Products and Services

- 12.7.4 Financial Overview
- 12.7.5 SWOT Analysis
- 12.7.6 Key Developments
- 12.8 Delta-T Devices Ltd
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 EKO Instruments Co Ltd
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments

13. APPENDIX

- 13.1 Word Index

List Of Tables

LIST OF TABLES

Table 1. Europe Pyranometer Market Segmentation

Table 2. Europe Solar Market by Region, 2020-2030

Table 3. Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Type

Table 4. Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Million) - Application

Table 5. Europe Pyranometer Market, by Country - Revenue and Forecast to 2030 (USD Million)

Table 6. Germany: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 7. Germany: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 8. France: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 9. France: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 10. Italy: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 11. Italy: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 12. UK: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 13. UK: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 14. Russia: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 15. Russia: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 16. Rest of Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Type

Table 17. Rest of Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn) - By Application

Table 18. Company Positioning & Concentration

Table 19. @LIST OF Abbreviation

List Of Figures

LIST OF FIGURES

- Figure 1. Europe Pyranometer Market Segmentation, By Country
- Figure 2. PEST Analysis
- Figure 3. Ecosystem: Europe Pyranometer Market
- Figure 4. Europe Pyranometer Market - Key Industry Dynamics
- Figure 5. Europe Pyranometer Market - Key Driver and Restrain Impact Analysis
- Figure 6. Europe Pyranometer Market Revenue (US\$ Million), 2022 & 2030
- Figure 7. Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 8. Europe Pyranometer Market Share (%) - Type, 2022 and 2030
- Figure 9. Silicon Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 10. Thermopile Pyranometers Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 11. Europe Pyranometer Market Share (%) - Application, 2022 and 2030
- Figure 12. Photovoltaic Systems Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 13. Meteorology Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 14. Climate Station Market Revenue and Forecasts To 2030 (US\$ Million)
- Figure 15. Europe Pyranometer Market , By Key Country- Revenue (2022)(US\$ Mn)
- Figure 16. Europe Pyranometer Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 17. Germany: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 18. France: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 19. Italy: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 20. UK: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 21. Russia: Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)
- Figure 22. Rest of Europe Pyranometer Market Revenue and Forecasts To 2030 (US\$ Mn)

I would like to order

Product name: Europe Pyranometer Market Forecast to 2030 - Regional Analysis - by Type (Photovoltaic Pyranometers and Thermopile Pyranometers) and Application (Photovoltaic Systems, Meteorology, and Climate Stations)

Product link: <https://marketpublishers.com/r/E876C90027D6EN.html>

Price: US\$ 3,550.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E876C90027D6EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970