

Global Glass Substrate Market Size study & Forecast, by Type (Borosilicate, Silicon, Ceramic, Fused Silica/Quartz-Based Glass Substrates, Other Types), by End-Use Industry (Electronics, Automotive, Medical, Aerospace & Defense, Solar) and Regional Analysis, 2023-2030

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Abstracts

Global Glass Substrate Market is valued at approximately USD 6.86 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 3.50% during the forecast period 2023-2030. Glass substrate refers to a thin, flat piece of glass material that serves as the foundation or base for various technological applications, such as electronics, optics, and display technologies. It typically exhibits high optical transparency and smoothness, making it suitable for applications such as Liquid Crystal Displays (LCDs), touchscreens, photovoltaic panels, and semiconductor devices. The Glass Substrate Market is expanding because of factors such as rising demand for LCDs in consumer and automotive applications, growing demand in photovoltaic applications and growing urbanization in emerging countries.

The increasing adoption of solar energy as a renewable energy source has led to a surge in the production of solar panels. Glass substrates serve as a crucial component in the manufacturing of photovoltaic modules, providing a durable and transparent cover that protects solar cells from environmental factors while allowing sunlight to penetrate and generate electricity. According to an IRENA (International Renewable Energy Agency) report, global solar photovoltaic (PV) generation experienced an unprecedented surge, recording a remarkable increase of 179 terawatt-hours (TWh) in 2021, marking a 22% rise from 2020. Furthermore, solar energy contributed 3.6% to the total global energy generation in 2021. Additionally, heightened awareness of

environmental concerns and the growing need to mitigate carbon emissions have led to an increased demand for solar energy. For instance, according to the International Energy Agency (IEA) report detailing India's clean energy transition in 2022, the nation has committed to deploying 500 gigawatts of renewable energy capacity. This initiative aims to reduce the emissions intensity of India's economy by 45% and mitigate up to one billion tons of CO₂. This drive toward renewable energy expansion, particularly solar power, directly influences the demand for glass substrates used in photovoltaic applications. In addition, with an increasing focus on personalized medicine, telemedicine, and point-of-care diagnostics, there is a growing demand for glass substrates with enhanced biocompatibility, sterilization capabilities, and optical transparency. However, the high costs related to the development of glass substrate technology and the rise in raw material prices stifled the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Glass Substrate Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to factors such as the dominance of established players in the market, growing demand for automotive and rising technological innovation in the region. Asia Pacific is expected to grow significantly over the forecast period, owing to factors such as the presence of leading manufacturing hubs such as India, China and Taiwan. Also, rapid industrialization, emergence of the solar energy sector and rising government initiatives drives the market growth in the region.

Major market player included in this report are:

AGC Inc.

Schott AG

Corning, Incorporated

Nippon Sheet Glass Co., Ltd.

Plan Optik AG

HOYA Corporation

Ohara Inc.

IRICO Group New Energy Company Limited

Toppan Inc.

Tungshu Group Co. Ltd.

Recent Developments in the Market:

In February 2023, AGC Inc. collaborated with Saint-Gobain to create a pilot breakthrough flat glass line that is predicted to dramatically cut direct CO2 emissions.

In January 2023, AGC Inc. created a CADTANK Online Computation and Optimization Assistant (a digital twin technology) for the glass melting process.

In January 2022, Schott AG introduced FLEXINITY, an ultra-fine structured glass that adds a game-changing aspect to semiconductor production, which has traditionally relied on Printed Circuit Boards (PCB) and silicon interposers for advanced chip packaging.

Global Glass Substrate Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, End-Use Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional &

segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Borosilicate

Silicon

Ceramic

Fused Silica/Quartz-Based Glass substrates

Other Types

By End-Use Industry:

Electronics

Automotive

Medical

Aerospace & Defense

Solar

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Glass Substrate Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Glass Substrate Market, by Type, 2020-2030 (USD Billion)
 - 1.2.3. Glass Substrate Market, by End-Use Industry, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL GLASS SUBSTRATE MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL GLASS SUBSTRATE MARKET DYNAMICS

- 3.1. Glass Substrate Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising demand for LCDs in Consumer and automotive applications
 - 3.1.1.2. Growing demand in photovoltaic applications
 - 3.1.1.3. Growing urbanization in emerging countries
 - 3.1.2. Market Challenges
 - 3.1.2.1. High cost related to development of glass substrate technology
 - 3.1.2.2. Rise in raw material prices
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Rising demand in healthcare applications
 - 3.1.3.2. Surging adoption of consumer durables and handheld devices

CHAPTER 4. GLOBAL GLASS SUBSTRATE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL GLASS SUBSTRATE MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Glass Substrate Market by Type, Performance - Potential Analysis
- 5.3. Global Glass Substrate Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Glass Substrate Market, Sub Segment Analysis
 - 5.4.1. Borosilicate
 - 5.4.2. Silicon
 - 5.4.3. Ceramic
 - 5.4.4. Fused Silica/Quartz-Based Glass Substrates
 - 5.4.5. Other Types

CHAPTER 6. GLOBAL GLASS SUBSTRATE MARKET, BY END-USE INDUSTRY

- 6.1. Market Snapshot
- 6.2. Global Glass Substrate Market by End-Use Industry, Performance - Potential Analysis
- 6.3. Global Glass Substrate Market Estimates & Forecasts by End-Use Industry

2020-2030 (USD Billion)

6.4. Glass Substrate Market, Sub Segment Analysis

- 6.4.1. Electronics
- 6.4.2. Automotive
- 6.4.3. Medical
- 6.4.4. Aerospace & Defense
- 6.4.5. Solar

CHAPTER 7. GLOBAL GLASS SUBSTRATE MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Glass Substrate Market, Regional Market Snapshot

7.4. North America Glass Substrate Market

7.4.1. U.S. Glass Substrate Market

7.4.1.1. Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. End-Use Industry breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Glass Substrate Market

7.5. Europe Glass Substrate Market Snapshot

7.5.1. U.K. Glass Substrate Market

7.5.2. Germany Glass Substrate Market

7.5.3. France Glass Substrate Market

7.5.4. Spain Glass Substrate Market

7.5.5. Italy Glass Substrate Market

7.5.6. Rest of Europe Glass Substrate Market

7.6. Asia-Pacific Glass Substrate Market Snapshot

7.6.1. China Glass Substrate Market

7.6.2. India Glass Substrate Market

7.6.3. Japan Glass Substrate Market

7.6.4. Australia Glass Substrate Market

7.6.5. South Korea Glass Substrate Market

7.6.6. Rest of Asia Pacific Glass Substrate Market

7.7. Latin America Glass Substrate Market Snapshot

7.7.1. Brazil Glass Substrate Market

7.7.2. Mexico Glass Substrate Market

7.8. Middle East & Africa Glass Substrate Market

7.8.1. Saudi Arabia Glass Substrate Market

7.8.2. South Africa Glass Substrate Market

7.8.3. Rest of Middle East & Africa Glass Substrate Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

8.1.3. Company

8.2. Top Market Strategies

8.3. Company Profiles

8.3.1. AGC Inc.

8.3.1.1. Key Information

8.3.1.2. Overview

8.3.1.3. Financial (Subject to Data Availability)

8.3.1.4. Product Summary

8.3.1.5. Recent Developments

8.3.2. Schott AG

8.3.3. Corning, Inc.

8.3.4. Nippon Sheet Glass Co., Ltd.

8.3.5. Plan Optik AG

8.3.6. HOYA Corporation

8.3.7. Ohara Inc.

8.3.8. IRICO Group New Energy Company Limited

8.3.9. Toppan Inc.

8.3.10. Tunghsu Group Co. Ltd.

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

9.2. Research Attributes

9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Glass Substrate Market, report scope

TABLE 2. Global Glass Substrate Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Glass Substrate Market estimates & forecasts by Type 2020-2030 (USD Billion)

TABLE 4. Global Glass Substrate Market estimates & forecasts by End-Use Industry 2020-2030 (USD Billion)

TABLE 5. Global Glass Substrate Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 6. Global Glass Substrate Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Glass Substrate Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Glass Substrate Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Glass Substrate Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Glass Substrate Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Glass Substrate Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Glass Substrate Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Glass Substrate Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Glass Substrate Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. U.S. Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. Canada Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. Canada Glass Substrate Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 20. Canada Glass Substrate Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 21. UK Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. China Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Glass Substrate Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 41. China Glass Substrate Market estimates & forecasts by segment 2020-2030

(USD Billion)

TABLE 42. India Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Glass Substrate Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Glass Substrate Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Glass Substrate Market

TABLE 70. List of primary sources, used in the study of global Glass Substrate Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures are dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Glass Substrate Market, research methodology
 - FIG 2. Global Glass Substrate Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Glass Substrate Market, key trends 2022
 - FIG 5. Global Glass Substrate Market, growth prospects 2023-2030
 - FIG 6. Global Glass Substrate Market, porters 5 force model
 - FIG 7. Global Glass Substrate Market, pest analysis
 - FIG 8. Global Glass Substrate Market, value chain analysis
 - FIG 9. Global Glass Substrate Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Glass Substrate Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Glass Substrate Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Glass Substrate Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Glass Substrate Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Glass Substrate Market, regional snapshot 2020 & 2030
 - FIG 15. North America Glass Substrate Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Glass Substrate Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Glass Substrate Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Glass Substrate Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Glass Substrate Market 2020 & 2030 (USD Billion)
- List of tables and figures are dummy in nature, final lists may vary in the final deliverable

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