

Global Silicon-on-Insulator (SOI) Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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Abstracts

Summary

This report studies the Silicon-on-Insulator (SOI) market. Silicon-On-Insulator (SOI) is a semiconductor fabrication technique developed by IBM that uses pure crystal silicon and silicon oxide for integrated circuits (ICs) and microchips. An SOI microchip processing speed is often 30% faster than today's complementary metal-oxide semiconductor (CMOS)-based chips and power consumption is reduced 80%, which makes them ideal for mobile devices. SOI chips also reduce the soft error rate, which is data corruption caused by cosmic rays and natural radioactive background signals. Silicon-On-Insulator (SOI) is a new type of starting material for the chipmaking process. SOI wafers have three layers; a thin surface layer of silicon (from a few hundred Angstrom to several microns thick) where the transistors are formed, an underlying layer of insulating material on a support or 'handle' bulk silicon wafer. The insulating layer, usually made of silicon dioxide, is referred to as the 'buried oxide' or 'BOX', and is usually a few thousand Angstroms thick. Transistors built within the top silicon layer, switch signals faster, run at lower voltages, and are much less vulnerable to signal noise from background cosmic ray particles. Each transistor is isolated from its neighbor by a complete layer of silicon dioxide. These transistors are immune to 'latch-up' problems and can be spaced closer together than transistors built on bulk silicon wafers. Building circuits on SOI increases Fab productivity by allowing for more compact circuit designs, yielding more chips per wafer. SOI enables increased chip functionality without the cost of major Fab process equipment changes. Faster circuit operation and lower operating voltages have produced a powerful surge in the performance of high-speed network servers and new designs for hand-held computing and communication devices with longer battery life. Advanced circuits, using multiple

layers of SOI-type device silicon, can lead the way to a coupling of electrical and optical signal processing into a single chip resulting in a dramatic broadening of communication bandwidth and new applications such as global-ranging, direct-link entertainment and communication to hand-held devices.

According to APO Research, The global Silicon-on-Insulator (SOI) market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Silicon-on-Insulator (SOI) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Silicon-on-Insulator (SOI) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Silicon-on-Insulator (SOI) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Silicon-on-Insulator (SOI) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Silicon-on-Insulator (SOI) include Soitec SA, Shin-Etsu Chemical and SunEdison, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Silicon-on-Insulator (SOI), sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Silicon-on-Insulator (SOI), also provides the sales of main regions and countries. Of the upcoming market potential for Silicon-on-Insulator (SOI), and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Silicon-on-Insulator (SOI) sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Silicon-on-Insulator (SOI) market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Silicon-on-Insulator (SOI) sales, projected growth trends, production technology, application and end-user industry.

Silicon-on-Insulator (SOI) segment by Company

Soitec SA

Shin-Etsu Chemical

SunEdison

Silicon-on-Insulator (SOI) segment by Type

300 mm SOI

Small Diameters

Silicon-on-Insulator (SOI) segment by Application

Automobile and Smart Industry

Consumer Electronic

Other

Silicon-on-Insulator (SOI) segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Silicon-on-Insulator (SOI) status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Silicon-on-Insulator (SOI) market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Silicon-on-Insulator (SOI) significant trends, drivers, influence factors in global and regions.
6. To analyze Silicon-on-Insulator (SOI) competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Silicon-on-Insulator (SOI) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Silicon-on-Insulator (SOI) and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Silicon-on-Insulator (SOI).
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Silicon-on-Insulator (SOI) market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Silicon-on-Insulator (SOI) industry.

Chapter 3: Detailed analysis of Silicon-on-Insulator (SOI) manufacturers competitive

landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of Silicon-on-Insulator (SOI) in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Silicon-on-Insulator (SOI) in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

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