

# Silicon Reclaim Wafers: Market Research Report

<https://marketpublishers.com/r/S683A9A5179EN.html>

Date: January 2019

Pages: 87

Price: US\$ 5,450.00 (Single User License)

ID: S683A9A5179EN

## Abstracts

This report analyzes the worldwide markets for Silicon Reclaim Wafers in US\$ Thousand.

The report provides separate comprehensive analytics for the US, Japan, Europe, Asia-Pacific, Latin America and Rest of World. Annual estimates and forecasts are provided for the period 2016 through 2024.

Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 43 companies including many key and niche players such as -

Advantec Co Ltd.

Kinik Company

KST World Corp.

Mimasu Semiconductor Industry Co., Ltd.

MOSPEC Semiconductor Corporation

NanoSilicon, Inc.

## Contents

### 1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations  
Data Interpretation & Reporting Level  
Quantitative Techniques & Analytics  
Product Definitions and Scope of Study

### 2. INDUSTRY OVERVIEW

Silicon Wafers Market: A Primer  
Outlook

**Table 1.** Global Silicon Reclaim Wafers Market (2018): Percentage Breakdown of Revenues by Application Markets (includes corresponding Graph/Chart)

Key Trends & Growth Drivers  
Growth in Foundry Utilization Drives Demand for Reclaimed Silicon Wafer

**Table 2.** Global Installed Monthly Wafer Manufacturing Capacity by Region/Country: 2017 (in Millions of 200mm Equivalent Wafers) (includes corresponding Graph/Chart)

**Table 3.** Global Annual Installed Wafer Manufacturing Capacity: 2011- 2020 (In Millions of Wafers per Day) (includes corresponding Graph/Chart)

**Table 4.** Global Semiconductor Foundry Industry Revenue Mix: Percentage Breakdown of Foundry Revenues by Customer Type for 2005, 2010, and 2017 (includes corresponding Graph/Chart)

Environmental Benefits Support Demand for Reclaimed Silicon Wafers  
Growing Cost Pressures in the Semiconductor Industry  
Prices of Reclaimed Wafer Driven by Supply-Demand balance in Prime Wafers Market  
Focus On Reducing Cost of Semiconductor Test Process to Benefit Demand  
Rising Volumes of E-Waste Sharpens the Focus on Silicon Wafer Recycling

**Table 5.** Global E-Waste Generated by Category (in %): 2018E (includes corresponding Graph/Chart)

**Table 6.** Global E-Waste Generated by Category (in %): 2010-2024 (includes corresponding Graph/Chart)

Technology Developments Spur Reclamation Yields

ATMI's RegenSi: The Pioneering First Improvement in Reclamation Technology

IBM Pioneers Recycling of Scrap Silicon Wafers for Solar Power

RS Technologies Develops New Metal Film Removal Technology

Strong Demand for Solar Grade Silicon Drives Reclaimed Silicon Wafer Demand

**Table 7.** Global Cumulative Solar Installations in GW (2014-2020) (includes corresponding Graph/Chart)

Transition to Large Diameter Silicon Wafers to Benefit Demand for Reclaimed Test/Monitor Wafers

**Table 8.** Global Semiconductor Industry's Transition to Larger Diameter Silicon Wafers: A Peek Into the Timeline (includes corresponding Graph/Chart)

**Table 9.** Global Estimated Monthly Installed Wafer Capacity (2017 & 2020): Percentage Breakdown by Wafer Sizes (includes corresponding Graph/Chart)

Rise of Gallium Arsenide Chips to Challenge Silicon & Reclaimed Silicon Chips

Surge in Automobile Automation Encourages Demand for Silicon Wafers

Table 10: Demand for Silicon Wafer in Car Infotainment and Connectivity by Wafer Size (in %) (includes corresponding Graph/Chart)

**Table 11.** Automotive Electronics as a Percentage of Vehicle Production Cost for the Years 2010, 2020 & 2030 (includes corresponding Graph/Chart)

Key Market Challenges Impeding Growth

New Wafer Materials & Low Yields

Large Wafer Sizes

Wear & Tear

Disposal of Chemical Waste  
Limits Innovation

### **3. PRODUCT OVERVIEW**

Silicon Reclaim Wafer  
Prime Wafers  
Test Wafers  
Scrap Wafers  
Common Reclaim Procedures  
Sorting  
Stripping  
Chemical Process  
Magnetic Abrasive Process  
Lapping & Grinding  
Laser Marking  
Polishing  
Cleaning  
Inspection  
Silicon Reclaim Process Flow

### **4. COMPETITIVE SCENARIO**

Leading Players  
4.1 Focus on Select Global Players  
Advantec Co Ltd. (Japan)  
Kinik Company (Taiwan)  
KST World Corp. (Japan)  
Mimasu Semiconductor Industry Co., Ltd (Japan)  
MOSPEC Semiconductor Corporation (Taiwan)  
NanoSilicon, Inc. (NSi) (USA)  
Noel Technologies, Inc. (USA)  
North East Silicon Technologies, Inc. (USA)  
Optim Wafer Services (France)  
Phoenix Silicon International Corporation (PSI) (Taiwan)  
Pure Wafer PLC (UK)  
Rokko Electronics Co., LTD. (Japan)  
RS Technologies Co., LTD (Japan)  
Scientech Corporation (Taiwan)

Shinryo Corporation (Japan)

Si Wave Corporation (SWC) (Taiwan)

Silicon Valley Microelectronics, Inc. (USA)

Silicon, Inc. (USA)

SUMCO CORPORATION (Japan)

West European Silicon Technologies B. V. (WESTEC)

4.2 Recent Industry Activity

Edgewater Capital Acquires Pure Wafer

RS Group to Increase Capacity for 300mm Silicon Wafer Reclaim

## 5. GLOBAL MARKET PERSPECTIVE

**Table 12.** World Recent Past, Current & Future Analysis for Silicon Reclaim Wafers by Geographic Region - US, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 13.** World Historic Review for Silicon Reclaim Wafers by Geographic Region - US, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 14.** World 14-Year Perspective for Silicon Reclaim Wafers by Geographic Region - Percentage Breakdown of Revenues for US, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## 6. REGIONAL MARKET PERSPECTIVE

6.1 The United States

A. Market Analysis

Market Outlook

B. Market Analytics

**Table 15.** The US Recent Past, Current & Future Analysis for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 16.** The US Historic Review for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

## 6.2 Japan

### A. Market Analysis

Market Outlook

Market Overview

### B. Market Analytics

**Table 17.** Japan Recent Past, Current & Future Analysis for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 18.** Japan Historic Review for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

## 6.3 Europe

### Market Analysis

**Table 19.** European Recent Past, Current & Future Analysis for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 20.** European Historic Review for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

## 6.4 Asia-Pacific

### A. Market Analysis

Market Outlook

China

Taiwan

Market Overview

### B. Market Analytics

**Table 21.** Asia-Pacific Recent Past, Current & Future Analysis for Silicon Reclaim Wafers by Geographic Region - China, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 22.** Asia-Pacific Historic Review for Silicon Reclaim Wafers by Geographic Region - China, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 23.** Asia-Pacific 14-Year Perspective for Silicon Reclaim Wafers by Geographic Region - Percentage Breakdown of Revenues for China, South Korea, Taiwan and Rest of Asia-Pacific Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## 6.5 Rest of World Market Analysis

**Table 24.** Rest of World Recent Past, Current & Future Analysis for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 25.** Rest of World Historic Review for Silicon Reclaim Wafers Market Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

## 7. COMPANY PROFILES

Total Companies Profiled:

The United States (17)

Japan (9)

Europe (6)

France (1)

Germany (3)

The United Kingdom (1)

Rest of Europe (1)

Asia-Pacific (Excluding Japan) (11)

## I would like to order

Product name: Silicon Reclaim Wafers: Market Research Report

Product link: <https://marketpublishers.com/r/S683A9A5179EN.html>

Price: US\$ 5,450.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S683A9A5179EN.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