

South Korea Green Cement Market Size, Share, Trends and Forecast by Product Type, End Use Industry, and Region, 2026-2034

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Abstracts

The South Korea green cement market size reached USD 811.2 Million in 2025. Looking forward, the market is projected to reach USD 1,861.8 Million by 2034, exhibiting a growth rate (CAGR) of 9.38% during 2026-2034. The market is driven by strict environmental regulations and public procurement reforms encouraging adoption of low-carbon cement technologies. Infrastructure renewal programs and industrial retrofits are creating strong demand for durable, sustainable construction materials. A growing shift toward alternative fuels and by-product integration is further augmenting the South Korea green cement market share.

SOUTH KOREA GREEN CEMENT MARKET TRENDS:

Regulatory Push and National Decarbonization Agenda

South Korea's cement sector is undergoing rapid transformation as environmental regulations tighten and national decarbonization targets take precedence. The government's commitment to net-zero emissions by 2050 has translated into mandates that compel cement producers to lower their carbon footprint by adopting more sustainable practices. These include minimizing clinker content, incorporating industrial by-products, and upgrading to cleaner kiln technologies. Incentives such as preferential procurement criteria and environmental certifications are reinforcing this shift, creating structural demand for cement products with reduced embodied carbon. Key stakeholders across public infrastructure, defense, and transportation sectors are increasingly aligning with carbon-reduction benchmarks, driving consistent orders for low-carbon materials. The adoption of environmental product declarations (EPDs) is also gaining traction, further validating sustainability claims in project tenders. Taken

together, this regulatory and institutional environment has embedded sustainability as a procurement prerequisite, rather than a competitive differentiator. These intersecting trends, compliance-driven manufacturing and demand-side reform, form the backbone of South Korea green cement market growth.

Infrastructure Modernization and Retrofit Demand

A strong pipeline of infrastructure upgrades and redevelopment initiatives is contributing significantly to demand for sustainable construction inputs. Aging transport corridors, coastal defenses, and urban bridges are being reinforced or rebuilt using high-durability, corrosion-resistant cement blends. Public investment programs emphasize resilience and environmental compliance, integrating green cement as a core material in specification frameworks. Unlike residential construction, which may slow in saturated urban regions, large-scale civil works and flood mitigation efforts maintain steady demand across provinces. In retrofitting industrial estates and logistics hubs, specialized cement products designed to reduce thermal expansion and improve structural longevity are favored. These applications allow project owners to lower life-cycle emissions while meeting performance requirements under extreme conditions. This alignment of durability and sustainability standards is helping solidify market presence in both new-build and rehabilitation segments. Consequently, institutional commitment to infrastructure quality and climate resilience is securing long-term traction for advanced, eco-conscious materials.

Shift to Alternative Fuels and Industrial By-Products

The industry's transition toward circular economy practices is accelerating the integration of low-impact raw materials and energy sources. Manufacturers are increasingly replacing conventional clinker with supplementary cementitious materials derived from blast furnace slag, fly ash, and calcined clay. These inputs not only reduce process emissions but also support waste minimization goals across multiple industries. In parallel, a growing portion of thermal energy in kilns is being derived from waste-based fuels, such as shredded plastics, biomass, and processed municipal refuse. The result is dual value creation—lowered carbon intensity and reduced reliance on imported fossil fuels. Collaboration between cement producers and municipalities is driving co-processing initiatives, transforming landfilled waste into useful kiln feedstock. Additionally, continuous investments in preprocessing infrastructure and emissions monitoring systems are helping to stabilize quality and meet environmental thresholds. This shift toward resource-efficient, alternative feedstocks is laying the foundation for a more economically and environmentally sustainable value chain.

SOUTH KOREA GREEN CEMENT MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on product type and end use industry.

Product Type Insights:

Fly Ash-Based

Slag-Based

Limestone-Based

Silica Fume-Based

Others

The report has provided a detailed breakup and analysis of the market based on the product type. This includes fly ash-based, slag-based, limestone-based, silica fume-based, and others.

End Use Industry Insights:

Residential

Non-Residential

Infrastructure

The report has provided a detailed breakup and analysis of the market based on the end use industry. This includes residential, non-residential, and infrastructure.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all major regional markets. This includes Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea green cement market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea green cement market on the basis of product type?

What is the breakup of the South Korea green cement market on the basis of end use industry?

What is the breakup of the South Korea green cement market on the basis of region?

What are the various stages in the value chain of the South Korea green cement market?

What are the key driving factors and challenges in the South Korea green cement market?

What is the structure of the South Korea green cement market and who are the key players?

What is the degree of competition in the South Korea green cement market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA GREEN CEMENT MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA GREEN CEMENT MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (?2020-2025?)
- 5.2 Market Forecast (?2026-2034?)

6 SOUTH KOREA GREEN CEMENT MARKET – BREAKUP BY PRODUCT TYPE

- 6.1 Fly Ash-Based
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (?2020-2025?)
 - 6.1.3 Market Forecast (?2026-2034?)
- 6.2 Slag-Based
 - 6.2.1 Overview
 - 6.2.2 Historical and Current Market Trends (?2020-2025?)

6.2.3 Market Forecast (?2026-2034?)

6.3 Limestone-Based

6.3.1 Overview

6.3.2 Historical and Current Market Trends (?2020-2025?)

6.3.3 Market Forecast (?2026-2034?)

6.4 Silica Fume-Based

6.4.1 Overview

6.4.2 Historical and Current Market Trends (?2020-2025?)

6.4.3 Market Forecast (?2026-2034?)

6.5 Others

6.5.1 Historical and Current Market Trends (?2020-2025?)

6.5.2 Market Forecast (?2026-2034?)

7 SOUTH KOREA GREEN CEMENT MARKET – BREAKUP BY END USE INDUSTRY

7.1 Residential

7.1.1 Overview

7.1.2 Historical and Current Market Trends (?2020-2025?)

7.1.3 Market Forecast (?2026-2034?)

7.2 Non-Residential

7.2.1 Overview

7.2.2 Historical and Current Market Trends (?2020-2025?)

7.2.3 Market Forecast (?2026-2034?)

7.3 Infrastructure

7.3.1 Overview

7.3.2 Historical and Current Market Trends (?2020-2025?)

7.3.3 Market Forecast (?2026-2034?)

8 SOUTH KOREA GREEN CEMENT MARKET – BREAKUP BY REGION

8.1 Seoul Capital Area

8.1.1 Overview

8.1.2 Historical and Current Market Trends (?2020-2025?)

8.1.3 Market Breakup by Product Type

8.1.4 Market Breakup by End Use Industry

8.1.5 Key Players

8.1.6 Market Forecast (?2026-2034?)

8.2 Yeongnam (Southeastern Region)

8.2.1 Overview

- 8.2.2 Historical and Current Market Trends (?2020-2025?)
- 8.2.3 Market Breakup by Product Type
- 8.2.4 Market Breakup by End Use Industry
- 8.2.5 Key Players
- 8.2.6 Market Forecast (?2026-2034?)
- 8.3 Honam (Southwestern Region)
 - 8.3.1 Overview
 - 8.3.2 Historical and Current Market Trends (?2020-2025?)
 - 8.3.3 Market Breakup by Product Type
 - 8.3.4 Market Breakup by End Use Industry
 - 8.3.5 Key Players
 - 8.3.6 Market Forecast (?2026-2034?)
- 8.4 Hoseo (Central Region)
 - 8.4.1 Overview
 - 8.4.2 Historical and Current Market Trends (?2020-2025?)
 - 8.4.3 Market Breakup by Product Type
 - 8.4.4 Market Breakup by End Use Industry
 - 8.4.5 Key Players
 - 8.4.6 Market Forecast (?2026-2034?)
- 8.5 Others
 - 8.5.1 Historical and Current Market Trends (?2020-2025?)
 - 8.5.2 Market Forecast (?2026-2034?)

9 SOUTH KOREA GREEN CEMENT MARKET – COMPETITIVE LANDSCAPE

- 9.1 Overview
- 9.2 Market Structure
- 9.3 Market Player Positioning
- 9.4 Top Winning Strategies
- 9.5 Competitive Dashboard
- 9.6 Company Evaluation Quadrant

10 PROFILES OF KEY PLAYERS

- 10.1 Company A
 - 10.1.1 Business Overview
 - 10.1.2 Products Offered
 - 10.1.3 Business Strategies
 - 10.1.4 SWOT Analysis

- 10.1.5 Major News and Events
- 10.2 Company B
 - 10.2.1 Business Overview
 - 10.2.2 Products Offered
 - 10.2.3 Business Strategies
 - 10.2.4 SWOT Analysis
 - 10.2.5 Major News and Events
- 10.3 Company C
 - 10.3.1 Business Overview
 - 10.3.2 Products Offered
 - 10.3.3 Business Strategies
 - 10.3.4 SWOT Analysis
 - 10.3.5 Major News and Events
- 10.4 Company D
 - 10.4.1 Business Overview
 - 10.4.2 Products Offered
 - 10.4.3 Business Strategies
 - 10.4.4 SWOT Analysis
 - 10.4.5 Major News and Events
- 10.5 Company E
 - 10.5.1 Business Overview
 - 10.5.2 Products Offered
 - 10.5.3 Business Strategies
 - 10.5.4 SWOT Analysis
 - 10.5.5 Major News and Events

11 SOUTH KOREA GREEN CEMENT MARKET - INDUSTRY ANALYSIS

- 11.1 Drivers, Restraints, and Opportunities
 - 11.1.1 Overview
 - 11.1.2 Drivers
 - 11.1.3 Restraints
 - 11.1.4 Opportunities
- 11.2 Porters Five Forces Analysis
 - 11.2.1 Overview
 - 11.2.2 Bargaining Power of Buyers
 - 11.2.3 Bargaining Power of Suppliers
 - 11.2.4 Degree of Competition
 - 11.2.5 Threat of New Entrants

11.2.6 Threat of Substitutes
11.3 Value Chain Analysis

12 APPENDIX

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Product name: South Korea Green Cement Market Size, Share, Trends and Forecast by Product Type, End Use Industry, and Region, 2026-2034

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