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South Korea Green Technology and Sustainability Market Size, Share, Trends and Forecast by Component, Technology, Application, and Region, 2026-2034

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Abstracts

The South Korea green technology and sustainability market size reached USD 501.1 Million in 2025. Looking forward, the market is expected to reach USD 1,809.3 Million by 2034, exhibiting a growth rate (CAGR) of 14.87% during 2026-2034. The market is expanding rapidly, driven by strong government policies, corporate ESG commitments, and advancements in renewable energy, smart grids, and eco-friendly infrastructure. Growing public awareness and international cooperation further support innovation and adoption. These trends are collectively boosting the South Korea green technology and sustainability market share.

SOUTH KOREA GREEN TECHNOLOGY AND SUSTAINABILITY MARKET TRENDS:

Government Policy Support and Green Financing

South Korea's green technology sector is highly backed by forward-looking government policies and strategic investment programs. The country's 'Carbon Neutrality 2050” plan and Green New Deal provide a strong foundation for ambitious emission cuts and clean energy targets. Initiatives like the Korea Emissions Trading Scheme (K-ETS) and green finance tools like green bonds and tax credits draw public and private investments into the green economy. The government is further engaged in establishing a national green taxonomy to ensure uniformity in environmentally sustainable activities. These policy mechanisms accelerate the deployment of green technologies, such as energy storage, electric mobility, and eco-friendly construction, while helping de-risk investments, encouraging widespread adoption, and long-term market stability across the

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sustainability ecosystem.

Renewable Energy Expansion and Smart Grid Development

The rapid expansion of renewable energy infrastructure is a core driver of the South Korea green technology and sustainability market growth. With efforts such as the Renewable Energy 3020 Plan, the government is heavily augmenting solar, wind, and offshore energy capacities. But to effectively utilize these intermittent sources, South Korea is heavily investing in smart grid technology. These consist of advanced metering systems, real-time energy monitoring, demand response programs, and computerized grid control centers. These improvements are pivotal in maintaining stability, efficiency, and flexible power transmission throughout the nation. Synergy of clean energy production and smart grid systems increases energy security and enables decarbonization, providing the building blocks for a low-carbon, resilient future.

Industrial Innovation and Corporate Sustainability Commitments

South Korea’s technological strength and innovation culture are key accelerators of green growth. Industry leaders like LG and Samsung SDI are advancing battery storage solutions that complement renewable energy, while Hyundai and Kia are pushing the frontiers of hydrogen and electric mobility. In construction, zero-energy and green-certified buildings are becoming mainstream, aligning with national energy efficiency targets. Moreover, strong ESG commitments from conglomerates and increasing R&D investments are driving innovation in carbon capture, smart agriculture, and circular economy practices. The collaboration between government, academia, and private sector ensures continuous development and export of green technologies, positioning South Korea as a global leader in sustainable innovation and environmentally responsible industrial transformation.

SOUTH KOREA GREEN TECHNOLOGY AND SUSTAINABILITY 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 component, technology, and application.

Component Insights:

Solutions

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Services

The report has provided a detailed breakup and analysis of the market based on the component. This includes solutions and services.

Technology Insights:

Internet-of-Things

Cloud Computing

Artificial Intelligence and Analytics

Digital Twin

Cybersecurity

Blockchain

A detailed breakup and analysis of the market based on technology have also been provided in the report. This includes internet-of-things, cloud computing, artificial intelligence and analytics, digital twin, cybersecurity, and blockchain.

Application Insights:

Green Building

Carbon Footprint Management

Weather Monitoring and Forecasting

Air and Water Pollution Monitoring

Forest Monitoring

Crop Monitoring

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Soil Condition and Moisture Monitoring

Water Purification

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes green building, carbon footprint management, weather monitoring and forecasting, air and water pollution monitoring, forest monitoring, crop monitoring, soil condition and moisture monitoring, water purification, and others.

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 the major regional markets, which include 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

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How has the South Korea green technology and sustainability market performed so far and how will it perform in the coming years?
What is the breakup of the South Korea green technology and sustainability market on the basis of component?
What is the breakup of the South Korea green technology and sustainability market on the basis of technology?
What is the breakup of the South Korea green technology and sustainability market on the basis of application?
What is the breakup of the South Korea green technology and sustainability market on the basis of region?
What are the various stages in the value chain of the South Korea green technology and sustainability market?
What are the key driving factors and challenges in the South Korea green technology and sustainability market?
What is the structure of the South Korea green technology and sustainability market and who are the key players?
What is the degree of competition in the South Korea green technology and sustainability market?

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