



Building a sustainable
business for the future

It's all about **the chemistry™**





Sustainability – A strategic driver

SONGWON takes its leadership role in the industry and ensures a high level of customer satisfaction thanks to high-quality products, reliable supply, constant improvement in cost position, and innovation.

Sustainability for SONGWON means ‘building a sustainable business for the future’ by integrating the ESG topics into the corporate strategy (Environmental, Social, Governance). The strategic goal is to create lasting value by managing operations, innovation and business practices to meet the changing demands and sustainability requirements of the markets, the environment and society. The ability to meet these challenges, to conserve resources across the value chain and contribute to the circular economy enables SONGWON to maintain its reputation and prepares the company for a solid and sustainable future.

As SONGWON continues building an optimized pipeline of products that meet customer demands, it is essential for SONGWON's businesses to continue leveraging new customer insights.



Approach to ESG – Environment, Society and Governance

SONGWON creates value by integrating environmental, social and governance aspects, considering stakeholder concerns. Today, these issues are material to business

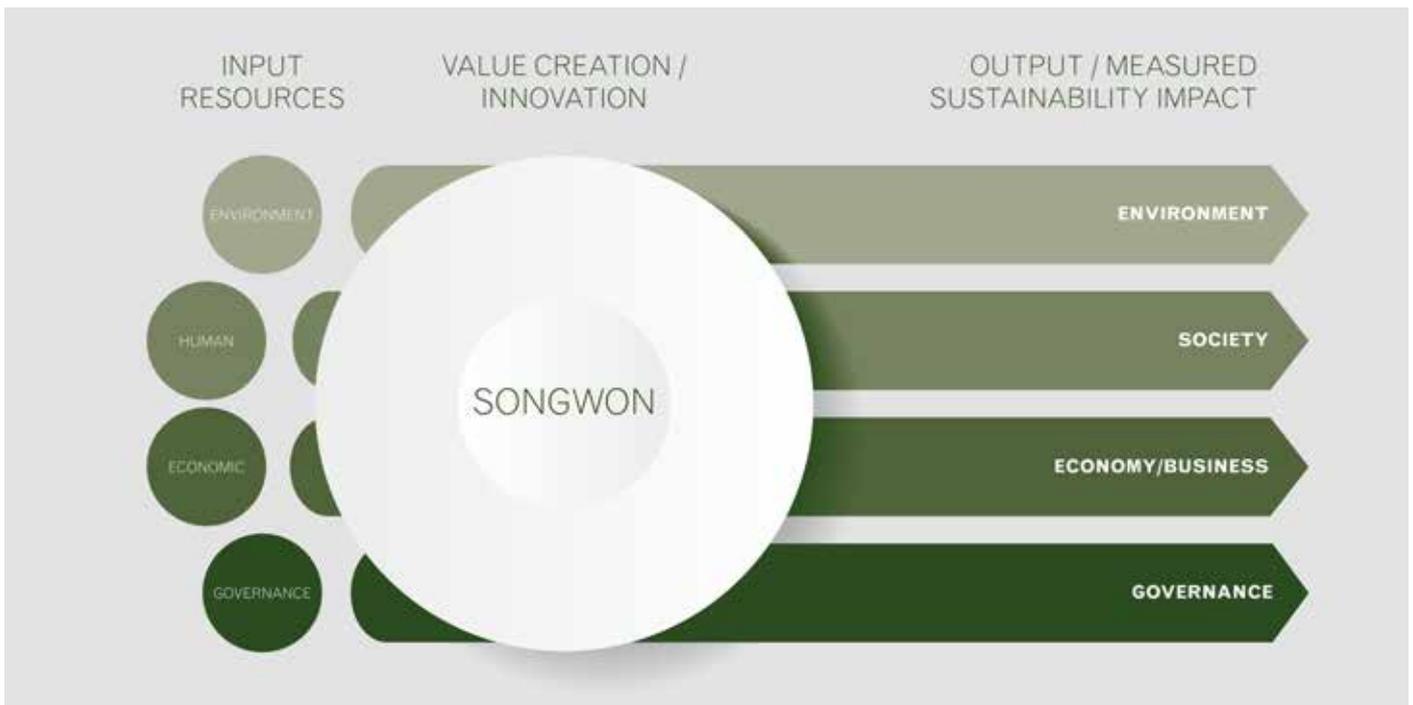
resilience. The integration of ESG allows SONGWON to make the difference. SONGWON wants to create long-term value for all stakeholders.



Value Creation through innovation

We are living in a connected world in where society's commitment to the values of responsible business, sustainable economic development and long term value creation is continually increasing.

SONGWON takes into consideration the environmental, societal and economic impacts associated with its business activities and how these are contributing to sustainable development and the United Nations' Sustainable Development Goals.



Committing to ongoing sustainability, social and ecological responsibility – while creating value through innovation – reflects SONGWON's business model.

Selection of products

SONGWON is a global leader in the development, manufacture and supply of specialty chemicals and the 2nd largest producer of polymer stabilizers in the world. Our diverse team of dedicated and experienced professionals, works with customers and other industry experts to develop and deliver customized, application-specific chemical products for a wide variety of sectors and industries.

Core and sustainable products

Over its 57 years in the industry, SONGWON has developed a wide-ranging portfolio of performance-improving products that make end materials more durable and plastics easier to recycle.

Additives allow further use of products by maintaining their initial properties or contribute to a second life of resins. By supporting customers in the selection of suitable products for their applications, SONGWON meets the todays' requirements and contributes to circular economy.

SONGNOX® 1076 (phenolic antioxidant)	SONGNOX® 1680 (phosphite)
SONGNOX® 1010 (phenolic antioxidant)	SONGNOX® L670 (liquid primary antioxidant for lubricants)

SONGSORB®
CS WB product range
(solvent-free coatings additives)

SONGSTAB® CZ product range (lead-free PVC additives)	SONGSTAB® COS product range (tin- and zinc-free PVC additives)
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SONGFLAME® FR
(halogen-free flame retardant synergists)

HI-THANE™ A-7332	HI-THANE™ A-6200
(solvent-free polyurethane adhesive)	

New products

The work to increase the capacities of several established product lines continues. At the same time, SONGWON is proud to launch new products meeting today's customer needs.

SONGWON will also be able to cover the subsequent rise in demand for high-end specialty chemicals and raw materials for IT industries (incl. semiconductors) as well as display materials. In 2022, with the completion of the 2nd production line for electronic chemicals, SONGWON is well-positioned to respond to the increasing demand for semiconductors.

SONGNOX® 9228
(antioxidant for color improvement, stabilization of Cr-type high-density polyethylene)

SONGSORB® 1164
(UV absorber for plastics)

SONGSORB® CS 460	SONGSORB® CS 171
(for highly durable coatings - new high performing triazine and a liquid benzotriazole)	

SONGSORB® CS B5439	SONGSORB® CS B5452
(coatings on a water-based solution, new blends)	

Photoresist Monomers
(raw material of photoresist in semiconductor manufacturing process)

Photoresist Polymers
(photoresist chemicals in the semiconductor manufacturing process)

Expanded distribution network – worldwide

Combining comprehensive customer service and technical support with regional warehouse and the expansion of its strong distribution network, SONGWON can serve its customers worldwide, and is well-positioned to ensure a stable supply despite the currently complex global environment.

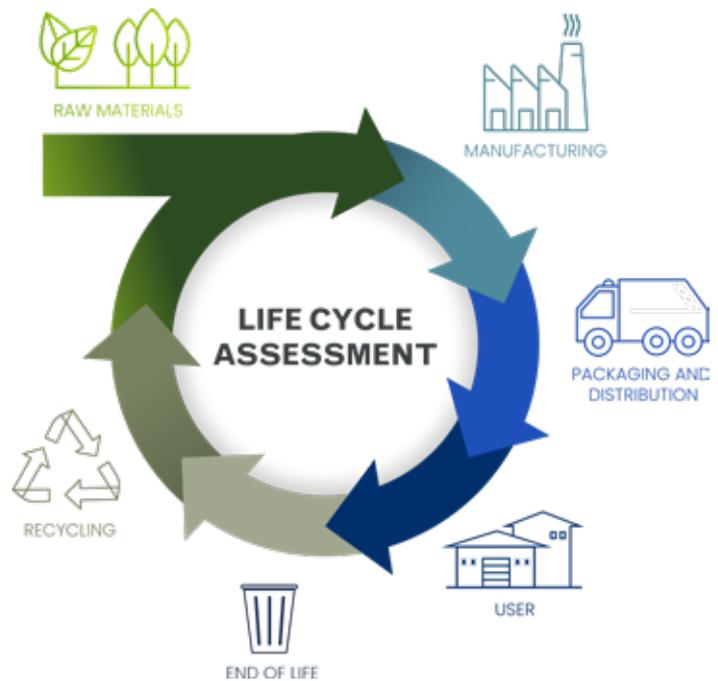


LCA – Available for SONGWON key products

SONGWON performs LCAs (life cycle assessments) of its products due to the increased importance for all partners of the plastics value chain to contribute to a circular economy.

- In 2022, LCA-data for major SONGWON products have been collected based on a proven methodology: e.g. materials, energy, emissions,
- with the aim of quantifying the global warming potential per product, to identify optimization possibilities,
- to identify opportunities through low impact raw materials, or further products extending durability of end products, or by using renewable energy for production and operations.

SONGWON continues working on solutions that consider the entire lifecycle of plastics.



SONGWON's design for circularity and contribution to mechanical recycling

Input 1:

SONGWON's design for circularity

SONGWON has designed a concept to give plastics a second life:

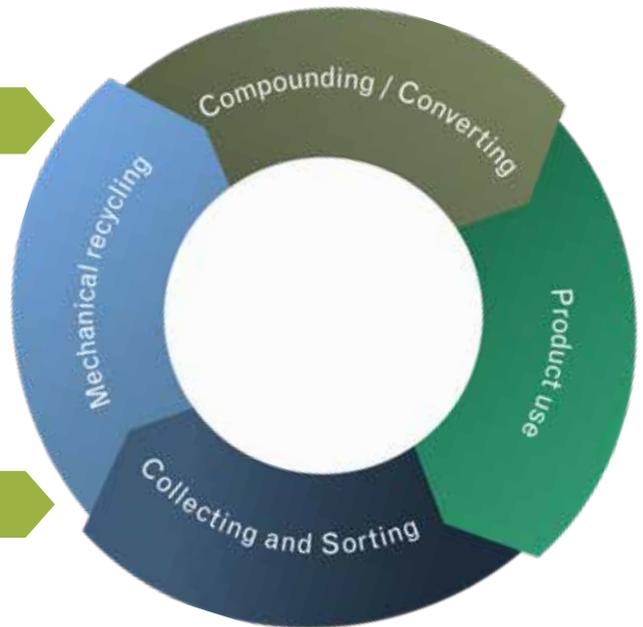
Additives allow further use of products or recycling without significant loss of initial properties.

Input 2:

SONGWON's contribution to mechanical recycling

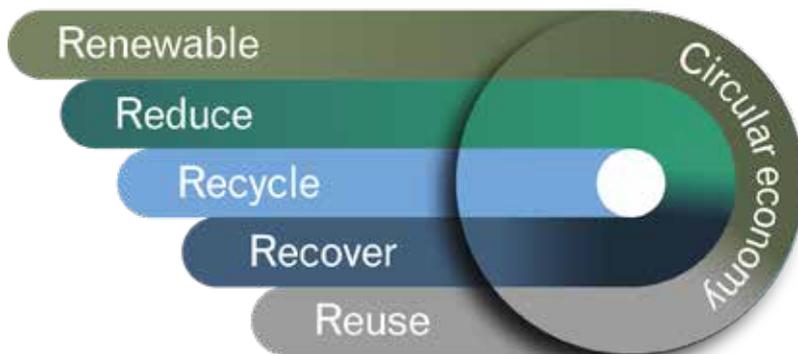
SONGWON's top-up approach enables mechanical recycling:

Through re-stabilization, by adding SONGNOX® binary blends (primary and secondary antioxidants), recycled resins are suitable for a second service life. This procedure is essential as the mechanical properties of not re-stabilized, recycled polyolefins (r-PO) are significantly reduced due to the higher melt flow rate resulting from a decrease in molecular weight.



Fostering a circular economy where sustainable solutions are at the forefront

SONGWON has the 5R-measures in place to support and continuously improve circular economy and assumes its responsibility towards the environment and society. Employees are encouraged to go beyond minimum standards when it comes to protecting the environment.



RENEWABLES:

Raw materials from renewable sources: +54 %

RECYCLING:

Mechanical recycling. Recycled PE for packaging: up to 50 %

REDUCE:

Reduction on non-renewable energy by renewables (photovoltaics)

REUSE:

Design of circularity and mechanical recycling

RECOVER:

Recovering (e.g. tin) from wastewater for reusing or selling

SONGWON's world and success



The global SONGWON team is committed to using its expertise to the benefit of the customers.

By creating sustainable value and achieving economic advantages through proprietary technology, product innovations, economies of scale and backward integration, SONGWON wants the customers to overcome challenges and gain competitive advantage.

One of the keys to SONGWON's success is the people's ability to work together, leverage their experience and use their market insight to anticipate surges in demand well in advance and implement optimal actions.

At SONGWON, diversity is a feature of corporate culture. The more than 1,000 employees represent 36 nationalities. The functioning of the global company is ensured thanks to SONGWON's culture of respect and responsibility towards each other and all stakeholders.

Human Rights

SONGWON publicly pledged its Code of Conduct to the protection of dignity and values of all stakeholders and has strengthened its human rights protection system to create a safe and healthy organizational culture for its employees, free from discrimination. SONGWON supports international standards and follows the laws and regulations of the countries the company operates in.



Labels and Certifications (selection)

GRI

The Integrated Sustainability Report (see Annual Report) has been prepared in accordance with the GRI Standards, Core Option, and has undergone the Content Index Service



EcoVadis Sustainability Rating



Commitment to and reporting in accordance with UN-Goals (SDGs)



ISO 14001, Environmental Management certification, for the Suwon plant (Korea)

ISO 45001, Occupational Health and Safety certification, for plants in Ulsan and Maeam (Korea)



Active Member of the Polyolefin Circular Economy Platform (recycling)

For further information, please go to:

www.songwon.com

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SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON's knowledge but are essentially intended for informational purposes only.

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Sustainability Report 2021:

