

 BJC Berli Jucker Public Company Limited บริษัท เบอร์ลี่ ยุคเกอร์ จำกัด (มหาชน)	
Responsible Sourcing and Sustainable Product Stewardship	Support Document: Responsible Sourcing and Sustainable Product Stewardship
	Topic: Product Stewardship & Sustainable Raw Materials
	Report Year: 2025

Sustainable Product Stewardship

Sustainable Product Strategy

As a leading food and staple retail company with a diverse portfolio of businesses, BJC recognizes the importance of developing and offering products and services that contribute to a more sustainable economy while creating long-term value for customers, consumers, communities, and other stakeholders.

As part of its product stewardship approach, BJC integrates sustainability considerations throughout the product life cycle, from raw material sourcing and manufacturing to product use, distribution, and end-of-life management. BJC identifies, develops, and expands products and services with enhanced environmental attributes that support the transition toward a resource-efficient, circular, and low-carbon economy.

Sustainable products and services are an integral part of BJC's broader sustainability strategy, as environmental impacts occur throughout the value chain. Initiatives such as using recycled or responsibly sourced materials, improving resource efficiency, reducing material use and waste, and supporting circularity can help reduce environmental impacts and greenhouse gas emissions across the value chain. These efforts complement BJC's operational decarbonization initiatives and contribute to addressing Scope 3 emissions.

Sustainable Product Classification System

BJC has established and implemented a Sustainable Product Classification System aligned with the principles of the Circular Economy Management System (CEMS) to identify and distinguish Sustainable or Green Products from conventional products. The system applies specific and measurable criteria related to resource efficiency, material circularity, recycled content, waste reduction, and environmental impact throughout the product life cycle.

The classification of Sustainable Products is subject to independent verification by an external third party. The verification covers the application of the classification methodology, the assessment against applicable Circular Economy strategies and quantitative criteria, and the supporting evidence used to substantiate the classification. The assessment considers relevant environmental, social, and economic aspects, as applicable, and ensures that product classifications are supported by objective, measurable, and verifiable evidence.

Products are classified as Sustainable Products when they align with at least one of the Company's Circular Economy strategies (R1–R13) and meet the applicable quantitative criteria established by the Company. These strategies include following:

Circular Economy Strategies	Criteria
R1	Refuse
R2	Rethink
R3	Reduce
R4	Redesign
R5	Return
R6	Reuse
R7	Repair
R8	Refurbish
R9	Remanufacture
R10	Repurpose (DIY)
R11	Renovate
R12	Recycle
R13	Recover

This methodology enables BJC to consistently distinguish Sustainable or Green Products from conventional products based on defined Circular Economy strategies, quantitative thresholds, and independently verifiable evidence.

For example, for glass bottles, a product qualifies as a Sustainable Product when it meets the following quantitative criterion:

Assessment Element	Requirement
Circular Economy Strategy Alignment	R12 – Recycle
Quantitative Criterion	At least 60% recycled glass cullet by weight of total glass content
Evidence	Production records, material specifications, and relevant CEMS records
Classification	Classified as a Sustainable Product when all applicable requirements are satisfied.

This quantitative threshold is used to distinguish Sustainable Products from conventional glass bottles that do not meet the $\geq 60\%$ recycled glass cullet criterion.

Sustainable Product Target

Building on the Sustainable Product Classification System, BJC has established quantified targets to increase the contribution of sustainable products and services to its business. As part of this approach, BJC Glass has established a specific target to increase revenues from products classified as Sustainable Products.

Sustainable Product Target	Baseline	2030 Target
Revenue from Sustainable Products and Services	2025	≥15% increase

By 2030, BJC Glass aims to increase revenues from Sustainable Products by at least 15% compared with the 2025 baseline. The target supports the continued development and commercialization of Sustainable Products within BJC Glass and contributes to the broader BJC Group's sustainable product strategy. Progress toward the target will be monitored based on revenues generated from products that meet BJC's Sustainable Product Classification criteria.

The target will be supported by continued product development and innovation, the application of Circular Economy principles, the use of recycled materials, resource efficiency improvements, and the expansion of products that demonstrate measurable and verifiable sustainability benefits.

Investments Made (CAPEX, OPEX) to Increase Sustainable Products or Services Portfolio

To support the development and expansion of its Sustainable Product portfolio, BJC invests in initiatives that strengthen product innovation capabilities, enable more resource-efficient and circular production processes, and improve the sustainability performance of manufacturing operations. These investments span three key areas: R&D resources, infrastructure improvements, and internal training. They support the development of Sustainable Products, increase the utilization of recycled glass cullet, improve resource and energy efficiency, and strengthen organizational capabilities in Circular Economy and sustainable product development. Through these investments, BJC seeks to expand the availability of Sustainable Products while reducing environmental impacts across the product life cycle and supporting the transition toward a more resource-efficient and circular economy.

Investment Category

R&D resources to develop sustainable products or services

In 2025, BJC allocated resources to research and development activities aimed at developing and improving sustainable products and services, including initiatives that enhance environmental performance, resource efficiency, and circularity. The resources allocated to these activities comprised:

- CAPEX: > THB 4.32 million
- OPEX: > THB 4.22 million
- Total R&D Resources: THB 8.54 million

These investments support the development and improvement of sustainable products and services and contribute to the expansion of BJC's Sustainable Product portfolio.

Project	CAPEX / OPEX	Purpose
Prototype Development for Glass Cullet Color and Contaminant Sorting	OPEX	To develop a prototype sorting system for separating glass cullet by color and removing non-glass contaminants, thereby improving the quality and usability of recycled glass cullet in glass production.
Development of Glass Formulations for Increased Recycled Cullet Utilization	OPEX	To develop optimized glass formulations that enable the increased use of recycled glass cullet as a raw material, reducing reliance on virgin raw materials and supporting material circularity.
Study of Process Parameters Affecting Glass Melting	CAPEX	To identify and optimize key process parameters affecting glass melting performance in order to improve energy and resource efficiency and support the production of Sustainable Glass Products.
Synthetic Soda Ash Process Transformation	OPEX	To improve the efficiency and sustainability of the soda ash production process, with the aim of reducing resource consumption and enhancing the sustainability of glass manufacturing.
Tempering Process Development for Lightweight Glass Packaging	OPEX	To enhance the mechanical strength and durability of lightweight glass packaging through a tempering process, enabling lightweighting while maintaining product performance and quality.

Infrastructure improvements to ensure products and services are produced/manufactured/maintained sustainably

BJC invested more than THB 60 million in infrastructure improvements to support the sustainable production of its products and strengthen the environmental performance of its manufacturing operations. These investments primarily focus on increasing the use of renewable energy, improving energy efficiency, and optimizing resource utilization in glass manufacturing processes. The initiatives contribute to more resource-efficient and lower-impact production while supporting the Company's Sustainable Product portfolio and Circular Economy objectives.

Key investments include the following:

Project	CAPEX / OPEX	Purpose
Solar Rooftop Installation	CAPEX	To reduce the environmental footprint of glass manufacturing by increasing renewable electricity use, thereby supporting the sustainable production of Sustainable Glass Products.
Air Compressor Replacement	CAPEX	To improve energy efficiency in the glass manufacturing process through the replacement of existing air compressors with more energy-efficient equipment.
HP Compressed Air Load Management	CAPEX	To optimize compressed air utilization in the glass manufacturing process and improve overall energy efficiency.
Air Compressor Load-Sharing Control Program	CAPEX	To optimize compressor load distribution and operation, improving energy efficiency in the glass manufacturing process.

Internal Training

An OPEX budget of THB 105,000 was allocated for internal training on sustainability, circular economy, sustainable product development, resource efficiency, energy management, and sustainable design principles for employees involved in R&D, innovation, and product development.

Furthermore, BJC promotes the sale and growth of its Sustainable Product portfolio by integrating sustainability considerations into sales and commercial activities, where applicable. Sales employees are supported through various incentive mechanisms, including commissions, recognition programs, performance-based incentives, sales targets, and other reward mechanisms that encourage the promotion, sale, and achievement of targets related to Sustainable Products and services.

For example, within BJC's Consumer Products business, sales employees receive incentive commissions for selling tissue paper products, with additional KPI-linked incentives tied to the sale of sustainable products that demonstrate improved environmental performance. In addition, to encourage sustainable consumption, BJC provides customers with certificates quantifying the estimated reductions in water consumption and carbon dioxide emissions associated with their purchases compared with conventional alternatives. These mechanisms are designed to strengthen sales employees' awareness and understanding of the sustainability attributes of products, support customer engagement, and increase market adoption of products that contribute to resource efficiency, circularity, waste reduction, and reduced environmental impacts.

Organic Products

BJC promotes the availability of organic products as part of its product stewardship initiatives, supporting responsible agricultural practices, sustainable resource management, and more environmentally responsible production.

Organic products offered through BJC's businesses are produced in accordance with recognized organic standards and, where applicable, internationally recognized certification requirements, such as the USDA Organic and EU Organic certifications. These standards promote environmentally responsible production practices and restrict or prohibit the use of synthetic pesticides, chemical fertilizers, genetically modified organisms (GMOs), irradiation, industrial solvents, and certain chemical food additives.

BJC's organic product portfolio includes both private-label products developed and marketed by BJC and supplier-branded products distributed through BJC's retail channels. This approach enables BJC to promote responsible production practices across its product portfolio while responding to growing consumer demand for products with credible environmental and sustainability attributes.



Other Sustainable Products & Services

In addition to organic products, BJC identifies other products and services that contribute to environmental sustainability through resource efficiency, circular economy principles, pollution prevention, climate action, water stewardship, or biodiversity protection.

The identification of qualifying products and services is based on specific product attributes and supporting evidence rather than general sustainability claims. Depending on the nature of the product or service, supporting evidence may include recognized certifications, product specifications, recycled content, environmental performance data, technical criteria, or other credible documentation.

BJC highlights sustainable products and services that contribute to the following environmental objectives:

- **Climate Change Adaptation:** Products and services that enhance resilience to current and expected future climate-related physical risks.
- **Sustainable Use and Protection of Water and Marine Resources:** Products and services that promote water efficiency, sustainable water management, and the protection or improvement of water resources.
- **Transition to a Circular Economy:** Products and services that support resource efficiency, waste prevention, reuse, repair, recycling, recovery, and the use of secondary or responsibly sourced materials.
- **Pollution Prevention and Control:** Products and services that prevent or reduce pollution through the use of less hazardous materials, pollution prevention measures, or pollution control solutions.
- **Protection and Restoration of Biodiversity and Ecosystems:** Products and services that support the protection, conservation, restoration, and sustainable use of biodiversity and ecosystems.

Sustainable Revenue

BJC's total revenues from sustainable products and services are calculated based on revenues generated from organic products and other sustainable products and services, excluding sustainable activities undertaken for internal use, such as solar energy used for manufacturing operations or carbon offsetting activities. BJC monitors the development of revenues generated from sustainable products and services to understand the contribution of sustainable products to its overall business portfolio and to identify opportunities for further growth.

Revenues from	2022	2023	2024	2025
A: Organic products (EU Organic label (leaf), USDA Organic)	42,388,649	36,691,172	33,512,830	51,725,941
B: Other sustainable products or services		47,958,000	19,804,075	37,003,518
C: Total revenues from sustainable products or services (A+B)	42,388,649	84,649,172	53,316,905	88,729,459

Unit: THB

Promoting Sustainability Through Certified Products

As a diversified consumer and retail business, BJC sources, distributes, and offers a wide range of agricultural and food-related products, including fresh, processed, and agricultural-based consumer products. Responsible sourcing of agricultural commodities is therefore an important part of BJC's product stewardship and sustainable supply chain management.

Agricultural production can place significant pressure on ecosystems and natural resources, contributing to greenhouse gas emissions, biodiversity loss, and deforestation. Growing consumer demand for transparency, traceability, and sustainably produced products has increased the importance of certified agricultural commodities. In 2025, BJC strengthened its sustainable sourcing practices by integrating sustainability certification requirements into procurement processes, supporting greater traceability and alignment with recognized standards across agricultural crop and animal-based product supply chains.

Agricultural Product	Certification of Agricultural Crops	Type of Certification	Amount (metric tonnes)	% of Certified Products Purchased
Palm Oil	Roundtable on Sustainable Palm Oil (RSPO)	Leading Certification	52,640	77%
Soy	Roundtable on Responsible Soy (RTRS)	Leading Certification	9,025	62%
Sugar	BonSucro	Leading Certification	24,570	58%
Cacao	Fairtrade and Rainforest Alliance incl	Leading Certification	430	84%
Coffee	Fairtrade	Other Recognized Certification and Standards	1,620	70%
Cereals	Global G.A.P.	Other Recognized Certification and Standards	895	100%
Cotton	Organic Cotton Standards in USA	Other Recognized Certification and Standards	325	2%
Tobacco	Sustainable Tobacco Programme (STP)	Leading Certification	1	23%

The raw materials used in the production of our own-brand snacks, including palm oil, sugar, and cacao, are certified by leading sustainability standards such as RSPO, Bonsucro, Fairtrade, and Rainforest Alliance. These certifications apply to our brands Tasto, Party, and Campus, ensuring responsible sourcing across the entire supply chain.

Animal welfare is an important aspect of responsible sourcing and product stewardship, particularly for businesses involved in the sourcing, distribution, and sale of food and agricultural products. As expectations for responsible agricultural practices continue to increase, animal welfare has become increasingly relevant to food safety and quality, responsible supply chain management, and consumer expectations.

BJC recognizes the importance of promoting responsible animal welfare practices across its agricultural and food supply chain. The Company works with relevant suppliers and business partners to promote the responsible sourcing of animal-derived products and encourage adherence to applicable animal welfare requirements and recognized standards. Where relevant, BJC considers animal welfare criteria in supplier and product requirements to support responsible production practices and the well-being of animals throughout the supply chain.

Through these efforts, BJC aims to strengthen responsible sourcing practices, manage sustainability-related supply chain risks, and provide customers and consumers with products sourced from suppliers that demonstrate responsible animal welfare practices.

Animal Product	Certification of Animal Product	Type of Certification	Amount (metric tonnes)	% of Certified Products Purchased
Aquaculture products	Aquaculture Stewardship Council (ASC)	Leading Certification	960	100%
Cattle products (excl. dairy):	AAWCS (Australia), Certified Humane	Other Recognized Certification and Standards	2,600	3%
Dairy products	Fairtrade	Other Recognized Certification and Standards	3,400	1%
Swine products	AAWCS (Australia), RSPCA Assured, Global Animal Partnership (G.A.P)	Leading Certification	3,500	77%
Poultry products	Fairtrade, Global Animal Partnership (G.A.P)	Other Recognized Certification and Standards	5,400	69%
Wild fisheries products	MSC Chain of Custody	Leading Certification	350	98%



Certificate TH23/00000637

The management system of

Thai Glass Industries Public Company Limited

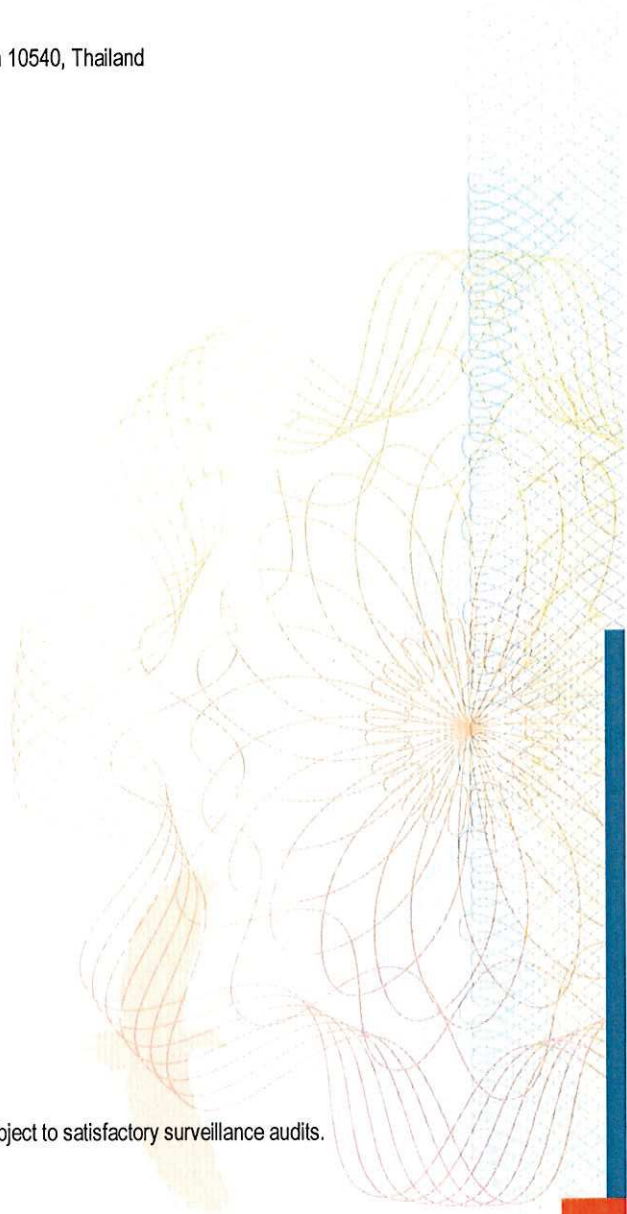
78 Moo 3, Soi Watsrivarenoi, Bangna-Trad Road, Km.18, Nongprue, Bangplee, Samutprakarn 10540, Thailand

has been assessed and certified as meeting the requirements of

Circular Economy Management System (CEMS)

For the following activities

Design and Manufacturing of Glass Container



This certificate is valid from 13 September 2023 until 13 September 2026 and remains valid subject to satisfactory surveillance audits.
Issue 1. Certified since 13 September 2023

Authorised by

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