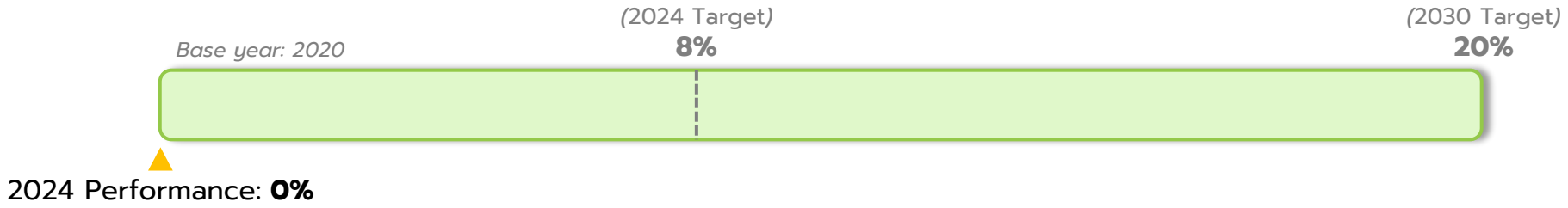
WATER STEWARDSHIP

Target and Performance

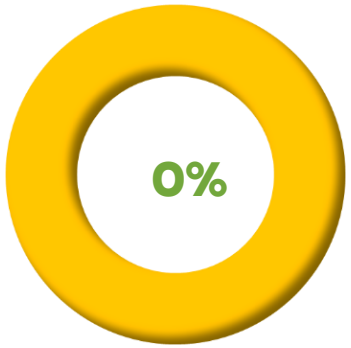
Long term target by 2030

20% Reduction in water consumption per revenue compared to the baseline year 2020.



2024 Target

- 8% Reduction in water consumption intensity per revenue compared to the year 2023



Of Target

2024 Performance

- Water Consumption Intensity per revenue **11.34** cubic meters per million Baht.
- Water consumption **5,805,540.16** cubic meters.
- 72 stores และ 1 Distribution Center treated wastewater and reused.
- **8,613,557.05** cubic meters withdrawal from water stress areas increased by **37.48%** compared last year.

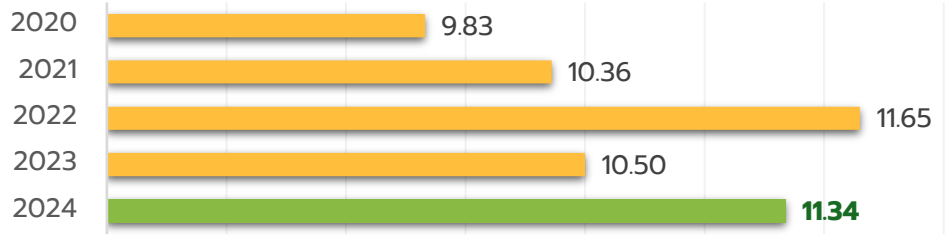
Management strategies and results in Water Stewardship

As climate change is seeing intensified flooding and drought year on year, the Company recognizes the water stewardship and resource management efficiency throughout the water life cycle to sustain an economic-ecological co-development that adds economic value to communities without encroaching on natural resources. The Company announces the long-term target to reducing water consumption per revenue unit 20% compared with baseline year or 2% per year. In areas prone to water scarcity and optimizing wastewater for maximum economic-social value while raising water stewardship awareness in the process.

Stewardship Approach	2024 Result
 Water Risk Assessment	• Own operation and critical suppliers are annually monitored by applying the Aqueduct Water Risk Atlas global water risk mapping tool. The Company has thus planned effective water management to increase water usage efficiency and risk management along the supply chain.
 Water Saving and Conservation programs	• The water saving and conservation programs to increase efficiency of the water utilization and reduce the water withdrawal from water stress area. The significant programs are implemented as the recycling effluent from wastewater treatment plant, the installation of water saving equipment, the rainwater collecting tank and the ground water bank project etc.
 Creating Awareness to stakeholders	• Communicate through the company's media, including pictures and stickers, to raise water stewardship awareness to employees, customer, and public. • Communicate and conduct training to Suppliers in the water stress area and enhancing them to implement the water conservation program.

Water Consumption Intensity

(Unit: Cubic meter per million Baht)

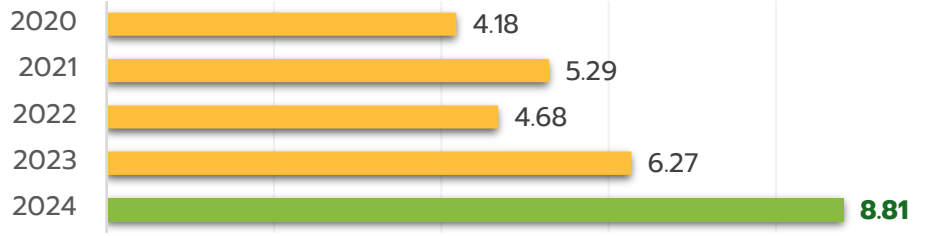


Water Consumption

(Unit: million cubic meters)

Water withdrawal from water stress area

(Unit: million cubic meters)



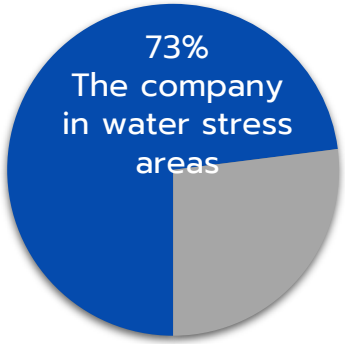
Water Stress Risk Assessment

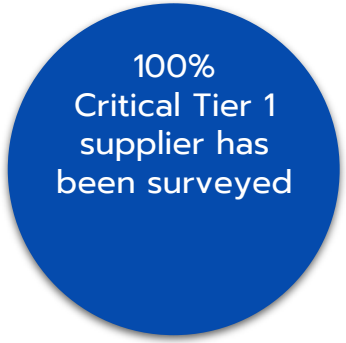
Results of Water Risk Assessment

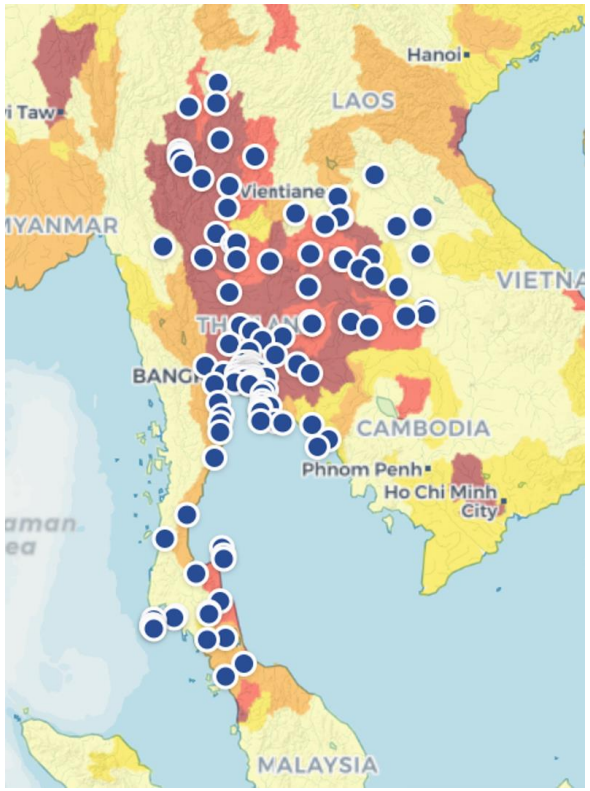
The company set an annual target to comprehensively assess the operational areas of the company and its Tier 1 partners. The results achieved the set targets as follows:

• 100% of the company's operational areas and all Tier 1 partners have been assessed for water scarcity risks annually. The assessment utilized the Aqueduct Water Risk Atlas tool, and 100% of all stores and distribution centers , as well as critical tier 1 suppliers, have completed the assessment which achieved the target of the action plans.

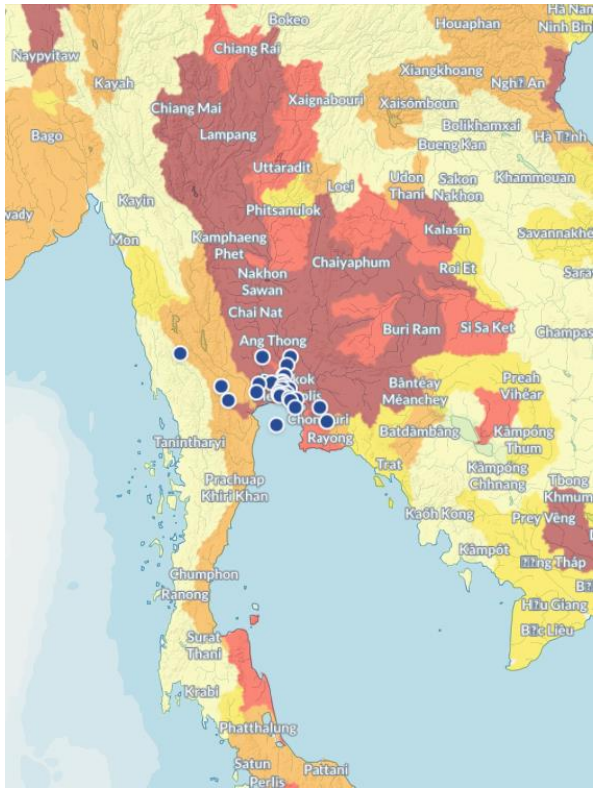
• From the survey, the company found that 73% of the Company facilities and 93% of critical tier 1 supplier facilities are based on water stress area which both percent are higher than previous year. see the water stress map as below pictures.



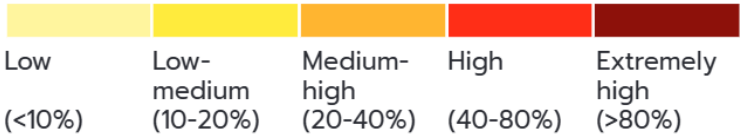




The Company



Critical Tier 1 supplier



Survey Results and Risk Mitigation Measures for Supply Chain

In 2024, The Company also conduct survey water stress by % of sourced agricultural commodities originating from water-stressed areas. The result found that % of agricultural commodities from the water stress area are higher than last year according to country's circumstance. The survey of each category as;

% of sourced agricultural commodities originating from water-stressed areas	
Category	**2024 Result**
Cattle products	90%
Maize	74%
Palm Oil	52%
Rice	70%
Soy	97%
Sugar	49%
Tobacco	98%
Cotton	59%
Cassava	74%

Types of Water Management Risks of Critical Tier 1 Suppliers	Mitigation
81% face risks related to water quantity and quality	Implemented the "Better Life for Highland Farmers" project. This project focuses on providing knowledge and promoting organic farming practices among farmers in the northern and northeastern regions, which face chronic drought issues. The project aims to improve agricultural production efficiency and reduce food loss. The company collaborates with the Department of Agricultural Extension and various universities to encourage farmers to adopt organic farming methods, such as drip irrigation, eliminating pesticide use, and transitioning to organic farming. Additionally, the company educates farmers on low-water-consumption crops that are in high demand, reducing food loss. The company also purchases produce from participating farmers for distribution nationwide.
18% face risks related to legal compliance and price structure changes	the company organized an annual partner meeting under the Responsible Supply Chain Development Project, which included discussions on partners' roles in preparing for water and environmental measures. The meeting aimed to inform partners about relevant water and environmental laws, changes in regulations, and the company's environmental requirements for partners. In 2024, 2,031 partners (100%) participated in this development program
1% face risks related to water management violations and disputes.	the company selected rice-producing partners, such as Nakhon Luang Rice Mill in Kamphaeng Phet, as a case study for the Rice Production Model Project. This project focuses on efficient water and soil management practices, such as alternate wet and dry farming, organic fertilizer use, efficient water management, and proper rice straw management (avoiding straw burning) to reduce risks of violations and disputes related to water and environmental management with communities. Additionally, the company collaborated with the Professional Qualification Institute (Public Organization) to provide training on Level 4 Rice Quality Control and Inspection Standards for rice mill personnel to enhance their knowledge in sustainable rice production.

Examples of Water Resource Management Projects

Measures to mitigate water risks through internal employee participation

"Save Water, for Future Water Conservation" Project

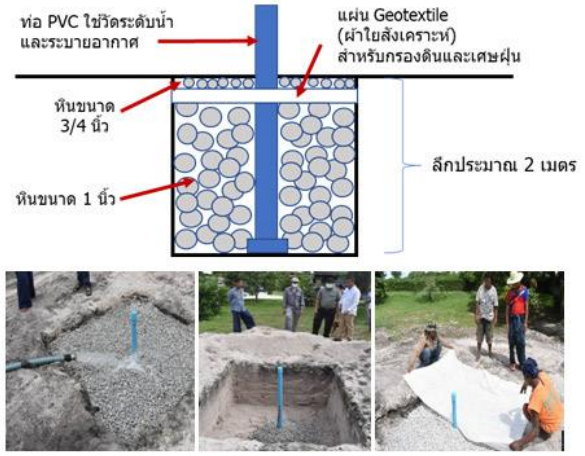
Continue the Save Water, Save Future project since 2018. To reduce water consumption. by returning the treated effluent to reuse in the green area, and cleaning the waste house or loading area. This project can reduce the amount of water used and recirculate water to improve resource efficiency and reduce operation costs.

2024 Result

- 72 stores and 1 Distribution Center treated wastewater and reused.
- 2 stores installed rainwater harvesting tanks for plant irrigation and street cleaning
- 3 stores Implemented a groundwater bank project to return treated wastewater to the environment, enhancing soil moisture around the store

3rd year of "Groundwater Bank in Water Stress Areas"บริษัทได้

The Company adopted a groundwater bank within the water stress areas. The water sump with vertical piping is installed to collect flash rainfall well-treated wastewater and flow to the water reservoir or increase water absorption into the soil. This concept reduces water scarcity impacts and from the pilot project at - Yasothon and expands to another water stress area in Maha Sarakham province. This knowledge are shared to farmer and the nearby community.



2024 Result

- Over **32** cubic meters returned to nature through groundwater bank pipe
- Over **155,520** Baht in cost savings per year.
- **20** farmers and community in water stress are trained

Examples of Water Resource Management Projects

"For Better Life of High Land Farmer" Project

The project aims to survey, educate, and promote farmers in the northern and northeast provinces which are chronic water stress areas. For improving the efficiency of agriculture production and preventing food loss. The Company collaborates with the Department of Agricultural Extension and universities to enhance the farmers' better farming for their better life i.e. use of the water-dropping system, stopping chemical pesticides, and transforming to organic farming. The Company also sharing for fruit and vegetable species that consume less water and high demand from consumers to prevent food loss. Altogether, purchasing their projects to sell in upcountry stores.

2024 Result

- **281** farmers have participated program (Target 100% in 2030)

"Low Carbon Rice" Project

The company recognizes the importance of developing the domestic agricultural supply chain and has integrated collaboration across multiple sectors — including farmers, agricultural and environmental experts, rice producer groups, Nakornluang Rice Mill, and retail branches — to drive the "Low-Carbon Rice" pilot project in Kamphaeng Phet Province. This initiative involves producing and processing rice using methods and technologies that help reduce greenhouse gas emissions, such as alternate wetting and drying (AWD), using organic fertilizers instead of chemical ones, efficient water management, and proper handling of agricultural waste (e.g., avoiding open burning of rice straw). The project aims to mitigate climate change impacts, meet the growing demand of environmentally conscious consumers (Green Consumers), add value to target the premium rice market, and prepare for international regulations and trade measures that increasingly link greenhouse gas emissions to market access.