


SDGs Integration



The Company integrates the SDGs into its sustainability strategy by considering the relevancy to the Company’s business operations, the alignment with the company’s core competencies, the Company’s ability to respond to the SDGs, and global and national sustainability trends. The Company responds to the SDGs through its sustainability management structure, which includes strategies, plans, and monitoring of progress in achieving the SDGs. The following are the specific responses for each goal:

Target	Plan	Operating Performance	Long-Term Targets
<div style="display: flex; align-items: center;"> <h3>Governance and Economy</h3> </div>			
	<ol style="list-style-type: none"> Develop business for electricity production from renewable energy by expanding domestically and internationally for a sustainable growth Develop a biofuel business and further developing high value bioproducts. 	<ul style="list-style-type: none"> Generated and sold electricity from renewable energy through BCPG Public Company Limited, both domestically and internationally, for a total of 2,025.2 MW, comprising: <ul style="list-style-type: none"> Solar power plants in Thailand with the capacity from commercial operation of 176.8 MW (including rooftop installations and under commercial operation) with additional 13 MW expansion and 79.7 MW in commercial operation in Japan. Wind power plants in Thailand with the capacity of 9.0 MW and in the Philippines with the capacity of 14.4 MW (equity portion). Hydropower plants in Lao People’s Democratic Republic, with the capacity from commercial operation of 114 MW. Natural gas power plants in the United States with the capacity from commercial operation of 857 MW (equity portion). Projects under development with the total capacity of 774.9 MW includes rooftop solar power project in Thailand, solar power plant projects in Japan and Taiwan, and wind power plant projects in the Philippines and Laos. 	<ul style="list-style-type: none"> Focus on core business growth through clean energy generation, including, solar power plants, rooftop solar power plants, wind power plants, hydropower plants, power transmission line, and natural gas power plants. Enter the battery energy storage system business throughout the value chain to support the growing electric vehicle industry, with the increasing use of renewable energy. Moreover, to support the development of new smart energy businesses driven by innovation and technology to promote energy management. Invest in other energy-related infrastructure business according to the business and investment plans of the Company and to support the business expansion in the future. Efficiently manage capital and balance sheet by secure appropriate funding sources and financial ratios.

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		<p>In addition, there are other infrastructure projects, such as: a power transmission line project from Laos to Vietnam, and an oil terminal and port project in Phetchaburi Province, Thailand.</p> <p>Remarks: The capacity is as per the Power Purchase Agreement (PPA).</p> <ul style="list-style-type: none"> • Operates a biofuel business through BBGI Public Company Limited, with a total production capacity of over 1,800,000 liters per day. The high-value bioproducts business comprises BBGI Biodiesel Company Limited, with a biodiesel production capacity of 1,000,000 liters per day, and a pure glycerin refinery with an average production capacity of 80 tons per day. <ul style="list-style-type: none"> - BBGI Bioethanol (Chachoengsao) Company Limited, with the total production capacity of ethanol from cassava and molasses totaling 150,000 liters per day. - BBGI Bioethanol Company Limited, with the total production capacity of ethanol from molasses totaling 650,000 liters per day. - Sales, import, and export of high-value bioproducts via investment in Manus Bio Inc., a leader in the high-value bioproducts business, and co-invests in the establishment of WIN Ingredients Joint Venture to conduct business related to biotechnology. - Research and development business in biotechnology focuses on research and development of bioproducts using Synthetic Biology technology in collaboration with Biome Company Limited. - Contract Development and Manufacturing Organization (CDMO) business utilizing advanced biotechnology through collaboration with Fermbox Bio Private Limited, a partner with expertise in research and production of synthetic biological products using high-precision fermentation processes. BCPG and Fermbox Bio co-invest in the joint venture of BBGI Fermbox Bio (BBFB). • New Products: Hi Premium 97 which contains high-octane rating of 97, the highest level within the E10 gasohol group in Thailand. It is the only premium gasohol that complies with the Euro5 standard. • Continues to promote the sale of biofuels, which help to reduce greenhouse gas emissions. The Company focuses on selling Gasohol E20 S EVO through its network of 1,024 E20 service stations and 229 E85 service stations. It also maintains the second-largest market share for E20 and E85 products in Thailand. • Upgrade its service stations with a unique design concept. The Company aims to provide a better customer experience through innovative design and partnerships with non-oil businesses. There are 87 unique design service stations in six different formats: Modern, Innovation, Eastern, Western, Thai-inspired, and Fantasy. 	<ul style="list-style-type: none"> • Develop a biofuel business into high value-added bioproducts through joint investment with business partners with expertise in biotechnology in Thailand and abroad, in line with the Bio-Circular-Green Economy (BCG) model. • Focus on investing in innovative businesses, including green energy innovation such as sustainable aviation fuel (SAF) and bio-based product innovation that promote health and well-being of the society and environment. • Aim to be the number one service station brand. • Drive sales through the service stations and occupies the 2nd biggest market share (*).


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		<ul style="list-style-type: none"> Expand its non-oil business both inside and outside its service stations to provide greater convenience for customers. This includes the following businesses: coffee shop under the brand “Inthanin” with 1,020 branches, bubble milk tea shop “DAKASI”, with 31 branches and the right to expand and manage DAKASI bubble tea shops in Bangchak service stations nationwide, and business partnerships with “Tops Daily” with 15 branches, “FamilyMart” with 15 branches, “Mini Big C” with 134 branches, and “Lawson” with 2 branches. Maximize the utilization of space at the service stations and provide a more comprehensive range of services include food service business partnering with “Jones Salad” and “Gateaux House,” car care business under the brand “FURIO Care” “Green Wash” “Tyre Plus” “Wizard” “Autoclik.” The Company also expands branches with B-Quik and expands to lifestyle businesses such as convenience laundromat “Code Clean,” logistics business, and automatic vending machine business. Expand its digital payment system to 1,275 service stations. Customers can use digital payment methods to pay for fuel, goods, and services with membership point at the service stations, Inthanin coffee shops, and convenience stores located within its service stations. Partner with the Thailand Environment Institute (TEI) to develop design criteria for its Inno-Green Stations. These stations are designed to be environmentally friendly, innovative, safe, and accessible to all customers. The Company has 58 service stations that meet the Inno-Green criteria, bringing the total number of Inno-Green stations to 258. Develop a Member Card to offer a variety of benefits to its customers. In addition to the “Receive back as much as the oil price increase” program, the card also offers environmental benefits. For example, customers can donate their points to various charities through the “My Tree” and “Donation Basket” programs. The Company has also developed other programs to expand its customer base, such as the ability to transfer points to AIS points, redeem discounts, pay with point at Tungngern shop , transfer points to MAAI points, and convert points into mutual funds. 	
	<p>Participate in assessment from Corporate Governance Report Of Thai Listed Companies (CGR) score and extend CAC Re-certification.</p>	<ul style="list-style-type: none"> Received CGR Score of 112% in Excellence level (more than 80%) Extended CAC Re-Certification 	<ul style="list-style-type: none"> Maintain CGR score in Excellence level. 100% of key partners are being assessed with Supplier Code of Conduct (SCoC).



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Environment

	<ol style="list-style-type: none"> 1. Focus on reducing greenhouse gas emission under BCP316NET. 2. Improve efficiency and effectiveness of energy consumption in the production. 	<ul style="list-style-type: none"> • Set performance indicators for greenhouse gas emission reduction from its projects and carbon offset activities. These indicators are used to evaluate the performance of senior executives. • The energy consumption and greenhouse gas emission data for scope 1 and 2 have been verified by a third party with a reasonable level of assurance. The scope 1 and 2 data for the Bangchak Refinery (Phra Khanong) and the Marketing Business Group have been certified by the Thailand Environment Institute (TEI). The scope 1 and 2 data for Bangchak Green Net Company Limited. (BGN) and Bangchak Retail Company Limited (BCR) have been verified against the Carbon Footprint Organization assessment guidelines issued by the Thailand Greenhouse Gas Management Organization (Public Organization). • Express its commitment to achieving carbon neutrality and net zero greenhouse gas emissions at the organizational level by 2050. The Company is working towards this goal through its participation in the Carbon Neutral Network Thailand as a “Climate Action Leading Organization” (CALO). • The refinery business is implementing energy management and energy efficiency improvement projects to reduce greenhouse gas emissions. These projects include the installation of thermal insulation on furnace walls, the upgrading of heat exchangers, and the reduction of steam consumption. The Company is studying and evaluating carbon dioxide (CO₂) emissions through the Life Cycle Assessment (LCA) of its products. • The marketing business is focusing on using electricity from renewable sources, such as solar energy. The Company is using solar-powered air conditioners in its Inthanin and DAKASI shops, and it is installing solar rooftops at its service stations. These initiatives are part of the Company’s goal of achieving net-zero emissions at its service stations. The Company is also installing EV chargers at its service stations. In 2023, the Company installed EV chargers at 37 service stations and is currently in the process of obtaining permits for additional installations. The total capacity of the solar panels installed at the service stations is 1 MW, which is expected to reduce greenhouse gas emissions by more than 600 tons of CO₂ equivalent per year. • Establish a platform for renting electric motorcycles, called Winnonie. Winnonie is a startup within the Bangchak Group. In 2023, Winnonie had more than 1,000 registered users. The platform has helped to reduce greenhouse gas emissions by more than 2,000 tons of CO₂ equivalent since it began operating. 	<ul style="list-style-type: none"> • Scope 1 and 2 greenhouse gas emission intensity (for its businesses in Thailand, excluding the Bangchak Sriracha Refinery) will be less than 22.3 tons/kilo barrel by 2024. (*) • Aims to become a carbon neutral company by 2030 and achieve net zero greenhouse gas emissions by 2050. (*)
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		<ul style="list-style-type: none"> The Company's transportation business, BFPL, transports fuel by pipeline. The Company's LNG business, BTSG, supplies and distributes liquefied natural gas (LNG). These businesses support the Company's goal of providing and distributing low-carbon alternative fuels. In 2023, BFPL transported more than 4.5 billion liters of oil by pipeline. This reduced greenhouse gas emissions by more than 23,000 tons CO₂ equivalent per year compared to transporting oil by truck. Partner with Thanachok Oil Light Company Limited and BBGI Public Company Limited to establish BSGF Company Limited. BSGF will produce and sell sustainable aviation fuel (SAF) from used cooking oil. SAF can reduce greenhouse gas emissions by up to 82,000 tons CO₂ equivalent per year. The Bangchak headquarters building has received an award for reducing greenhouse gas emissions from the Low Emission Support Scheme (LESS). The LESS program recognizes businesses that have taken steps to reduce their energy consumption, fuel use, and waste. Offset its scope 1 and 2 greenhouse gas emissions from its office buildings and regional offices by purchasing carbon credits from BCPG Public Company Limited. Organize training on greenhouse gas accounting Carbon Footprint of Organization (CFO) for partners. Promote domestic carbon credit trading through the Carbon Markets Club. The Carbon Markets Club is a platform that connects buyers and sellers of carbon credits. It also raises awareness about climate change. In 2023, the Carbon Markets Club had 772 members, including 165 organizations and 607 individuals. The club has supported the trading of carbon credits from voluntary greenhouse gas reduction projects in Thailand (Thailand Voluntary Emission Reduction Program: T-VER) for a total of 474,207 tons CO₂ equivalent per year. The club has also supported the trading of digital renewable energy certificates (RECs) for a total of 1,612,645 MWh. This is equivalent to planting 148,898,779 10-year-old trees. The club has also launched a free carbon footprint tracking tool for organizations (CFO). The tool is based on the ISO 14064 standard and helps organizations to identify and reduce their greenhouse gas emissions. 	
	<p>1. Implement 3Rs principle (Reduce, Reuse & Recycle) to increase efficiency in water consumption by developing wastewater treatment system for reuse, and manage with modern tools/technology.</p>	<ul style="list-style-type: none"> Tap water consumption reduction projects in 2023 include new cooling tower for plant no.2 and reduction of steam stripping in the distillation unit. Water use intensity was 52 cubic meters per thousand barrels of oil equivalent. This is better than the target of 55 cubic meters per thousand barrels of oil equivalent. 	<ul style="list-style-type: none"> Reduce tap water and groundwater usage by 40% in 2024 and by 44% in 2030, compared to the water requirements proportional to the quantity of crude oil in the base year 2019.

Target	Plan	Operating Performance	Long-Term Targets
	<p>Commit to reducing the amount of waste sent to landfills. To achieve this goal, the Company has developed a waste management strategy that goes beyond the traditional 3Rs (Reduce, Reuse, Recycle) to 5Rs and 7Rs</p>	<ul style="list-style-type: none"> • Commit to sending zero waste to landfills. • Refinery in Phra Khanong has achieved a 99% 3Rs waste management rate. • Sent 6.6 tons of waste to incineration (incineration + landfill) (excluding recycling, reuse, or incineration for energy recovery). • Inthanin coffee shop is a leader in the use of bioplastics. The shop uses PLA (polylactic acid) bioplastics for both lids and cups. PLA is made from plants and is completely biodegradable. Inthanin also uses sip-through lids, which eliminate the need for straws. This helps to reduce the amount of single-use plastic waste generated by the shop. Inthanin's efforts to reduce plastic waste have made it the number one user of bioplastics in ASEAN. 	<ul style="list-style-type: none"> • Zero waste to landfill
	<ol style="list-style-type: none"> 1. Biodiversity Risk Assessment 2. Mitigation and Monitoring Measures 3. Biodiversity Promotion Projects 	<ul style="list-style-type: none"> • The Company has a policy in place to manage biodiversity and no deforestation. • Conducted a biodiversity risk assessment of its operations, including Bangchak Phra Khanong Refinery, Bang Pa In Terminal, and service stations*. These areas fall within a 5-kilometer radius of the surrounding area characterized by a high biodiversity, including sites designated as UNESCO World Heritage Sites, Ramsar Convention wetlands, and conservation areas defined by the International Union for Conservation of Nature (IUCN). The assessment utilizes geographic information system (GIS) software in conjunction with an evaluation of environmental impacts related to air, water, soil, and waste. The assessment complies with relevant legal standards. The findings indicate that the operational areas pose low risk. <p>Additionally, a dependency analysis was conducted, and environmental services were utilized to prepare mitigation measures in case any risks are identified.</p> <p>Operated projects to support biodiversity:</p> <ul style="list-style-type: none"> - Firefly Path: Conservation Path: Collaborate with communities neighboring the Bangchak Refinery (Phra Khanong) in the Khung Bang Kachao 6 area, focusing on the conservation of fireflies in the area. - Project Supporting Large-scale Stingless Beekeeping Groups in Bang Nam Phueng Sub-district: Collaborate with large-scale and local stingless beekeeping groups in Bang Nam Phueng Sub-district, Phra Pradaeng District, Samut Prakan Province, as the stingless bees are the indicators of fruitfulness of biodiversity and also beneficial to the local economy. 	<ul style="list-style-type: none"> • No complaints regarding biodiversity impacts.

Target	Plan	Operating Performance	Long-Term Targets
		<ul style="list-style-type: none"> - Punsook Urban Greenery Project: Plant trees in areas near the Bangchak Refinery in Phra Khanong and Bang Na districts, in collaboration with Bangkok Metropolitan Administration, Phra Khanong District Office, Bang Na District Office, Expressway Authority of Thailand, Local communities, Schools, Khung Bang Kachao, Bang Nam Phueng Sub-district, Samut Prakan Province under Bang Nam Phueng Subdistrict Administrative Organization, Bang Nam Phueng community leader, Royal Forest Department, and Nakhorn Khuengkhan Ecological Green Space Management Center - Our Khung BangKachao Project: Collaborate with over 34 government agencies and private organizations to develop Khung Bang Kachao into a green and prosperous area, while developing for a better way of life with better local economy. 	



Society

	<ol style="list-style-type: none"> 1. Commit to improving and developing the SHEE (Safety, Security, Occupational Health, Environment and Energy) management system in accordance with ISO 45001 safety management and management standards, including the Process Safety Management (PSM) system continuously. 2. Develop activities dedicated to society and business that create benefits to society and environment as a whole. 	<ul style="list-style-type: none"> • No accidents that lead to a major widespread complaint • Organize activities to promote safety during work, including: promoting the creation of a safety culture, holding monthly meetings with safety officers of contractor companies, setting safety goals and plans, celebrating safe hours without accidents for employees and contractors. • Work-related health services include measuring light, noise, heat, and chemicals in the workplace to ensure that it is safe for workers' health. • Provide safety officers and occupational health physicians who are responsible for controlling and advising employees and contractors on occupational health issues. There is also a monitoring of employees and contractors' health. • Develop the quality of life of the community to create a healthy, livable, and sustainable community in the area around the refinery (Phra Khanong) in 8 aspects: safety, education, sports, quality of life, environment, relationship and cultural and tradition preservation, economy, and public service. This is done through organizing activities with community groups, family groups, school groups and condominium groups. The percentage of participants in all community relations activities in 2023 was 101,558 people. • Community engagement score was 89% better than the target at 88%. 	<ul style="list-style-type: none"> • No accidents that lead to a major widespread complaint • Community engagement score to the Company 89% in 2024 and 91% in 2030. (*)
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Target	Plan	Operating Performance	Long-Term Targets
	<p>Take care of the employees through 100X Happiness and support employees to have i am bcp value by following the guideline of The BEST Employer to be in accordance with the sustainable development target.</p>	<ul style="list-style-type: none"> • Project Happy Aspect 1: Happy Stay such as sports complex construction, i am bcp space as a multi-purpose space, and development of an employee ID that can be used as a BTS card. • Project Happy Aspect 2: Happy DNA such as communicating and creating tools to support behavioral showcase, iam bcp: Boots Up activities, Wrong Di Innovation to motivate innovation culture. • Project Happy Aspect 3: Happy Me such as providing flexible employee benefits, and health and well-being programs. • Project Happy Aspect 4: Happy Heart such as BCP Town Hall event, CEO Box as a employees' voice channel, 12 Month 12 Activities initiative. • In 2023, the overall employee engagement score was 85%, better than the target of 74% and continuously increasing under the 100X Happiness initiative. • Provide employment opportunities for not less than 1% of the total number of employees. 	<ul style="list-style-type: none"> • Employee engagement score to the Company 76% in 2024 and 90% in 2030. (*)
	<ol style="list-style-type: none"> 1. Annual risk assessment regarding human rights and environment 2. Supplier Code of Conduct assessment regarding human rights, occupational and health safety, and environment 3. Raise responsibility and awareness regarding human rights in the organization 4. Establish a grievance mechanism for negative human rights impacts 	<ul style="list-style-type: none"> • Conduct comprehensive human rights due diligence in accordance with the guidelines of Human Rights Commission with 8 areas of risks include construction and expansion of business premises, employees, contractors, communities and society, environment, surrounding areas of operation, customers and consumers, other organizations with business relationships, cross-border labor, employment of LGBTIQ+ and temporary workers covering vulnerable groups (children, women, indigenous people, and people with disabilities) within the organization, and covering the Refinery and Oil Trading Business Group, the Marketing Business Group, and partners throughout the supply chain. • Conduct Supplier Code of Conduct assessment regarding labor practices, human rights, safety, occupational health, and the environment. • Cultivate responsibility and create understanding of human rights by organizing training within the organization and send employees to attend training with external agencies • Shared perspectives on driving organizations with the power of equality in International Women's Day #EmbraceEquity held by Citi Thailand Women's Network (Citibank) • Developed a Human Rights Due Diligence (HRDD) Manual to define operational guidelines and prevent/mitigate human rights violations. • Adhered to the National Action Plan on Business and Human Rights (NAP Implementation), which includes initiatives such as: supporting the improved quality of life for people with disabilities, and labor project under the name "Breastfeeding Promotion Project," which provides dedicated lactation rooms to ensure appropriate facilities for the ongoing wellbeing of mothers in the workplace. 	<ul style="list-style-type: none"> • No complaints regarding human rights issues initiated from business operations from the Company and partners.

Remark: (*) This is a result of the organization's sustainability performance that is aligned with the performance evaluation of the CEO and Managing Director in 2023.