

Table Showing Percentages and Proportion of Costs in Business Activities and Processes to Support Society in 2022

Type of Philanthropy Activities	Percentage of Total Cost
Public donations	2.83
Social investments	11.72
Business processes to respond to society	85.45

Type of Contribution	Total amount in Million THB.
• Money	214.68
• 9,375 hours of volunteer employees	2.19
• Organization items/products	4.47
• Management	14.70
Total	235.75

Future Plan for Community and Social Development Caring for Society

Bangchak, as part of the BCP316 NET plan, has establish a path towards achieving sustainability. Consequently, social projects are being prioritized to reduce emissions and increase sequestration of greenhouse gases. This includes implementing various methods measure and certify carbon. To achieve this, internal work processes need to be developed, employees need to be trained for greater expertise; and business feasibility studies must be conducted with greater consistency with greenovation goals.

Spill Prevention and Management

The company understands the impacts of spills of raw materials and products in the petroleum refinery industry, which can lead to economic, social, and environmental impacts such as damage to raw materials and products, impacts on the health and safety of operational employees, and communities, and chemical contamination in the soil and waterways at an incident sites. Therefore, the company is determined to reduce risk of spills and has create measures for effectively handling emergencies caused by spills covering the entire company value chain from crude oil transportation to refinery and transportation of oil products for storage in oil terminal and service stations as follows:

- Select oil tankers that feature ship inspection and assessment systems that meet the specifications and standards of the petroleum industry.
- Establish transportation safety measurements from ship acceptance to use of tug boats for directing vessels in and out of ports at the same plane as the port and attaching ship ropes according to standards before transferring oil and installing booms around vessels to prevent oil spills in waterways and to keep oil within a confined area for rapid collection and restoration, a connection of hoses with ships and constant monitoring during pump operation.
- Establish prevention and mitigation plans in case of oil spills with annual emergency drills and give opportunities for the community to observe.
- Prepare emergency equipment and hold training sessions on how to use oil removal equipment and give opportunities for the community to observe.
- Develop the capabilities of personnel in responding to situations by participating in training and holding joint training operations continuously with other parties involved such as the government and other companies in the petroleum industry.
- Develop and improve safety technologies for equipment, systems and tools continuously in line with the Oil Company International Marine Forum (OCIMF) such as improvement of port-side fire-extinguishing systems to ensure that they are modern, and additional CCTV installations.
- Design oil tanks and oil hoses and install equipment according to international standards such as automatic tank gauges and overflow alarm systems to measure the level of oil and to prevent oil overflows, and design areas to be able to contain oil in cases of spills (containment dikes), along with gas detector systems and prevention and surveillance



measures and emergency monitoring measures during work such as CCTV systems and shift area patrols and stock oil transfer monitoring.

- Establish work processes and provide training to related operators.
- Follow plans for a system, work, and equipment inspection (PM) at appropriate times.
- Identify indicators and assessments of risk areas that have the potential to lead to spills (LOPC) in each area along with control and prevention measures and continuously monitor the effectiveness of the measures and inspect safety in production and analyze and present corrective and prevention guidelines to prevent recurrence.
- Commissioned an oil spill clean-up vessel, named “Si Tharak 8” stationed at Bangchak’s refineries. The vessel can eliminate up to 10,000 liters of oil residues from the side collecting boom system and belt skimmer. The vessel also has a fire-extinguishing system for enhanced safety during emergencies along with an on-board meeting room for convenient planning and actions in line with officials’ missions. In addition to managing oil spills in the Chao Phraya River area where the refineries are located, the vessel can support the oil residue removal effort of the government and the Oil Industry Environmental Safety Group Association (IESG) of which Bangchak is a member, in addition to providing support during floods or other emergencies upon request. In 2022, the vessel participated in a mission to mitigate the impacts of an oil spill at a single point mooring site or oil transfer site (SPM) at sea in Rayong Province. Ten officials and oil spill removal operators participated in the mission.

The company continuously reports its performance to the working committee on monitoring activities and risk assessments to report to the organization’s risk management committee every month to ensure confidence that the company has the determination to manage work with quality and safety. Due to the company’s effort in preventing and managing oil spills and chemical spills in the places of operation, no significant oil or chemical spills occurred, thus creating confidence about safety and environmental quality protection for the communities around the oil refineries and ports.

Oil and Chemical	2018	2019	2020	2021	2022
– Number of case related to significant oil and chemical spills (more than 100 Barrels/time) (Case)	0	0	0	0	0
– Volume of significant oil and chemical spills with more than 100 Barrels/time (Barrel)	0	0	0	0	0
– Number of cases related to oil and chemical spills (more than 1 barrels / time Case)	3	2	3	0	0
– Volume of significant oil and chemical spills with more than 1 barrels / time (Barrel)	141	4	11	0	0
– Data coverage as percentage of annual production (MMBOE)	100	100	100	100	100