Sustainable Revenue Activities



Bangchak Corporation has actively pursued a diverse portfolio of taxonomy-eligible activities in alignment with Taxonomy framework, demonstrating commitment to environmental sustainability. These activities span multiple sectors and technologies that contribute substantially to climate and ecological objectives. including: Solar Photovoltaic Technology, Hydropower, Anaerobic Electricity Generation from Digestion of Sewage Sludge ect.

In addition to these initiatives, Bangchak has also developed and commercialized a range of Low Carbon Products, which are certified under the Carbon Label Products program by Thailand's Greenhouse Gas Management Organization (TGO). These certifications are based on the Product Category Rule (PCR) standard, ensuring transparency and credibility in carbon footprint labeling.

The revenue generated from these sustainable products and services is classified as Sustainable Revenue, as it meets the "substantial contribution" criteria defined by the EU Taxonomy. This classification reflects Bangchak's strategic focus on environmental performance.

The following table presents the value of Bangchak's Sustainable Revenue, derived from its certified low-carbon products and taxonomy-aligned activities.

Product and service description	Sustainable Revenue (THB)				
	FY 2021	FY 2022	FY 2023	FY 2024	
Sale of low carbon product	153,996,000,000	239,436,000,000	218,407,000,000	294,249,000,000	
Activities generating sustainable revenue aligning with EU Taxonomy	N.A.	5,446,128,634	4,587,279,558	3,550,795,341	
Total	153,996,000,000	244,882,128,634	222,994,279,558	297,799,795,341	

Remark: The Sustainability Taxonomy has been reported since 2022.

Bangchak's Low Carbon Products Y2024



Bangchak was certified to register the Carbon Label Products according to the PCR standard (Product Category Rule: PCR) by the Greenhouse Gas Management Organization (TGO) under collaboration with Thailand National Metal and Materials Technology Center (MTEC) and the National Science and Technology Development Agency (NSTDA)











Fuel Oil

		Average Emission of Thailand		Bangchak's Emission	
Products	2024 sale volume ⁽¹⁾ (Million liters)	Emission factors ⁽³⁾ (kgCO ₂ /L)	GHG emissions (tCO ₂ e)	Emission factors ⁽²⁾ (kgCO ₂ /kg)	GHG emissions (tCO ₂ e)
Gasohol	3,718	0.4124	1,149,977	0.344	959,244
Diesel	7,244	0.3522	2,143,123	0.237	1,442,136
Fuel oil	757	0.3743	274,845	0.276	202,664
		Total	3,567,945	Total	2,604,044

Bangchak improves refining process management continuously both operational stability and operational efficiency. This helped to reduce GHG emission 963,901 tCO₂e per year compared to Average Emission of Thailand with same volumes in 2024

^{[1] 2024} sale volumes from Bangchak's Annual Report 2024, PDF page 121, https://investor.bangchak.co.th/en/document/viewer/stream/138264/form-56-1-one-report-2024

⁽²⁾ Emission factors for Bangchak's product from carbon label products according to the PCR standard (Product Category Rule: PCR) by the Greenhouse Gas Management Organization (TGO)

⁽³⁾ Emission factors for normal oil product from IPCC 2006, Vol.2, table 3.2.1, 3.2.2, and the Department of Alternative Energy Development and Efficiency (DEDE)

Avoided emission at 3rd party (Scope 3 emission) Y2024





- Bangchak was the first oil company in Thailand which produced and sold biofuel products at Bangchak gas service stations to customers.
- O All oil products of Bangchak are biofuels which helps avoid GHG emissions compared to gasoline and diesel.
- O Gasohol oil products are the mixture of bioethanol and gasoline.
- O Biodiesel oil products are the mixture of biodiesel (B100) from palm oil and diesel.
- Various gasohol and biodiesel oil products are available for customers at Bangchak service stations.

Total GHG emission from the used of sold products (Scope 3 emission)

Normal Oil Products		Bangchak's Oil Products		
Group of Product	GHG emissions ⁽⁴⁾ (tCO ₂ e)	Group of Product	GHG emissions ⁽³⁾ (tCO ₂ e)	
Diesel	8,472,102	Biodiesel products	7,878,972	
Gasoline	4,041,917	Gasohol products	3,531,312	
Total	12,514,019	Total	11,410,284	

Bangchak's gasohol and biodiesel oil products helped avoid emissions for third-parties by 1,103,735 tCO₂e compared to normal oil products with the same volumes in 2024

^{(3) 2024} scope 3 GHG emissions for the use of sold products through Bangchak service stations was verified as one of scope 3 emissions sources by a third party.

⁽⁴⁾ Emission factors for normal oil product from IPCC 2006, Vol.2, table 3.2.1, 3.2.2, and the Department of Alternative Energy Development and Efficiency (DEDE) were used for the calculation.