



Sustainable Revenue 2024

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Thaioil aims to provide low-carbon products to help reduce greenhouse gas (GHG) emissions from both its production processes and end users. Although our company is not subject to EU regulatory reporting requirements, and Thailand’s Taxonomy (Phase 1) currently applies only to the energy and transportation sectors – with other sectors, including manufacturing, still under review, we have voluntarily adopted the EU Taxonomy’s environmental objectives as a framework to identify and classify our green products

As of 2024, the Thaioil Group offers 5 categories of green products, comprising 10 types of environmentally friendly items that support the climate change mitigation:

Topic	2021	2022	2023	2024
Sustainable revenues (THB Baht)	124,486,130,000	171,599,350,000	176,933,2100000	178,367,670,000
Total revenues (THB Baht)	348,998,000,000	548,158,000,000	471,124,000,000	470,372,000,000
Percentage of sustainable revenues (%)	35.67	31.30	37.56	37.92

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Details of Thaioil Group’s environmentally friendly products for climate change mitigation as follows:

Green Product Category	Objectives	Product Sold by Thaioil Group	Company	Sales Value (Million THB)	Sales Volume
Bio-based product <u>Description:</u> Ethanol derived from biomass such as cassava, corn and palm plays a significant role in mitigating climate change by promoting the use of sustainably sourced renewable materials and reducing dependence on fossil fuels. Ethanol at 99.5% purity (sourced from cassava and corn) serves as a high-quality fuel that lowers greenhouse gas emissions and advances sustainable energy solutions, including the production of biogas, biofuels for transportation, and bioliquids.	Climate change mitigation	Ethanol from cassava	TET	1,715.70	56.40 million litres
		Ethanol 99.5% (from cassava and corn)	TX	1.79	41.69 tons
Biodegradable Product <u>Description:</u> Thaioil’s Linear Alkyl Benzene (LAB) and Heavy Alkyl Benzene (HAB) are MSDS-certified for biodegradability and environmental safety. Used in organic chemical manufacturing, these products are made from sustainably sourced renewable materials, reducing environmental impact and aiding climate change mitigation. According to Ecoinvent 3.0 data, their carbon footprints are lower than global averages, supporting a greener industrial future.	Climate change mitigation	Linear Alkyl Benzene (LAB)	LABIX	7,633.46	150,437.71 tons
		Heavy Alkyl Benzene (HAB)	LABIX	76.59	2,197.27 tons

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Compostable Product <u>Description:</u> Thaioil's cleaning products (KEEEN) are certified compostable by MSCS, ensuring they safely break down without harming the ecosystem. Using these products in organic chemical production, Thaioil supports climate change mitigation and sustainable manufacturing with a lower environmental footprint about approximately 0.0843 kg CO ₂ e per kilogram of product.	Climate change mitigation	Cleaning products (KEEEN)	TX	0.61	3.50 tons
Products that reduce emissions released to the environment (Emission Reduction) <u>Description:</u> Thaioil’s benzene-free solvents are designed to minimize environmental impact by reducing VOC and pollutant emissions. They provide a cleaner, sustainable alternative for industrial use while meeting international standards. According to Ecoinvent 3.0, Xylene and TOPSol BF have lower carbon footprints compared to global averages.	Climate change mitigation	Benzene-free solvents, including: - TOPSol BF : Benzene Free	TX	51.60	1,038.58 tons
		Xylene (Isomer) : Low Ethylbenzene	TX	1,108.31	32,737.58 tons

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Products with lower GHG emissions than products of the same group in the market <u>Description:</u> Cyclopentane CP80 and CP97 are agents developed by Thaioil that can replace the use of CFCs and HCFCs, contributing to lower environmental impact. Similarly, Gasohol and Biodiesel produced by Thaioil are products with lower GHG emissions compared to others in the market, as confirmed by studies conducted by Thaioil. These products are part of organic basic chemicals manufacturing and play a key role in climate change mitigation efforts by reducing greenhouse gas emissions. According to Ecoinvent 3.0, Mogas (Base oil for Gasohol), and Gas oil (Base oil for Biodiesel) have lower carbon footprints compared to global averages.	Climate change mitigation	Cyclopentane CP80 and CP97 , which are agents that can replace use of CFCs and HCFCs	TX	14.92	194.90 tons
		Gasohol	TOP	45,209.92	1,434.66 million litres
		Biodiesel	TOP	122,554.67	4,535.29 million litres