



PROTECTING THE ENVIRONMENT

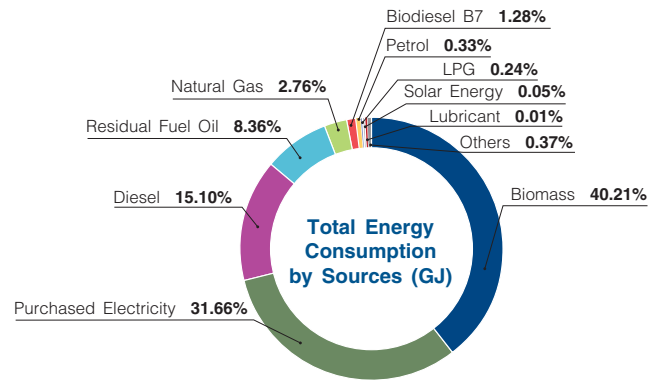
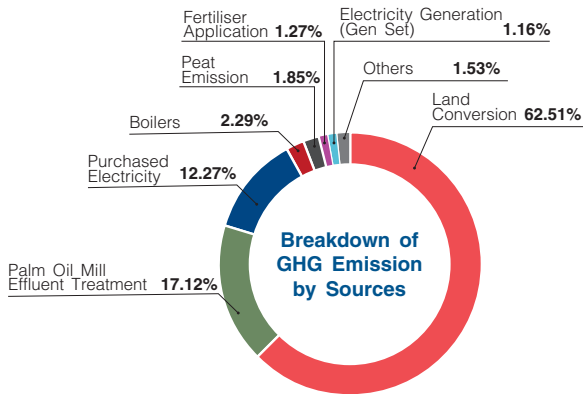
Our Commitment

TO BE FULLY COMMITTED TO ENVIRONMENTALLY FRIENDLY BUSINESS PRACTICES TOWARDS THE CONSERVATION AND PRESERVATION OF THE ENVIRONMENT.



Our Progress in 2019

GREENHOUSE GAS EMISSIONS AND ENERGY CONSUMPTION

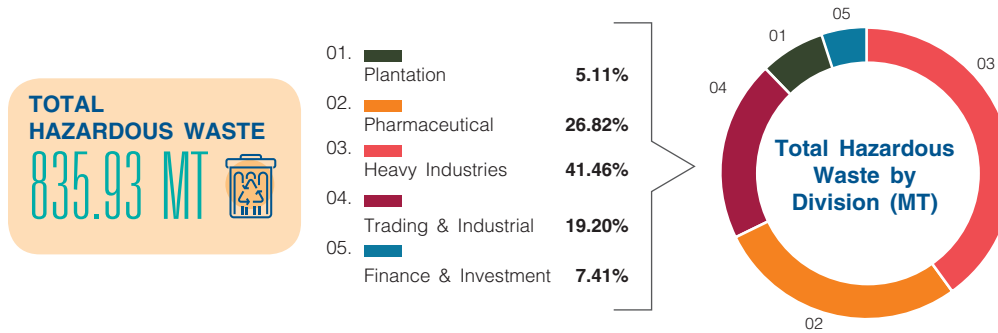


TOTAL GHG EMISSION IN 2019:
1,117,534.97 tCO₂-e

TOTAL ENERGY CONSUMPTION IN 2019:
2,077,332.93 GJ

Division	GHG Emission and/or Energy Reduction Initiatives
	<ul style="list-style-type: none"> Conservation areas with high biodiversity value are set aside based on biodiversity assessment prior to planting. The Division adopted a No Deforestation, No Peat, No Exploitation (NDPE) Policy which entails no new planting on peat and undisturbed forests. Applied best management practises on peat soil to reduce peat subsidence and oxidation, while exploring options for peat restoration. Continuously enhanced fertiliser management aimed at delivering the right amount of fertiliser required based on soil and leaf sampling, thus minimising the amount of GHG emitted from the application. Implemented methane capture and utilisation at our palm oil mill in Teluk Sengat, Johor. The methane captured is converted by our biogas plant into electricity, up to 1,200 MWh/year, and fed into the mill. This initiative further reduced our reliance on fossil fuel.
	<ul style="list-style-type: none"> Boustead DCP, our district cooling plant implements Operation Energy Saving Programme by which saw: <ul style="list-style-type: none"> Daily monitoring and control of the condenser and chilled water temperature Proper arrangement of chillers based on load demand Control of the generation of Intelligent Cooling Energy (ICE), based on reserve cooling capacity of ice tanks Half-yearly energy audit by energy manager, to identify new opportunities for energy saving At our Hotels and Resorts, we progressively replaced conventional lighting with LED or energy saving bulbs, to conserve electricity.
	<ul style="list-style-type: none"> Manufacturing site at Sungai Petani, Kedah installed with Solar PV panels with 209 kWp capacity. 155,949 kWh of electricity generated and sold to the grid. To reduce electricity consumption, our sites embarked on various energy efficiency initiatives. Pharmaniaga Manufacturing Berhad has begun retrofitting its buildings and warehouses with LED lights, with a yearly cost saving of approximately RM27,059.
	<ul style="list-style-type: none"> Enforced a strict measure to reduce electricity usage during non-operating hours. Replaced diesel usage for mobile cogeneration unit (MCU) generator with electricity usage, producing less GHG emissions per unit energy, avoiding approximately 20,000 tCO₂-e/year and saving nearly RM140,000 in cost.
	<p>UAC Berhad established its Masterplan for CO₂ Reduction, which amongst others, outlined the following initiatives:</p> <ul style="list-style-type: none"> Purchase of more efficient boilers Continuous process and facilities optimisation Power factor improvement on all high consumption motors Energy audits by energy manager, to identify new opportunities for energy saving

WASTE MANAGEMENT



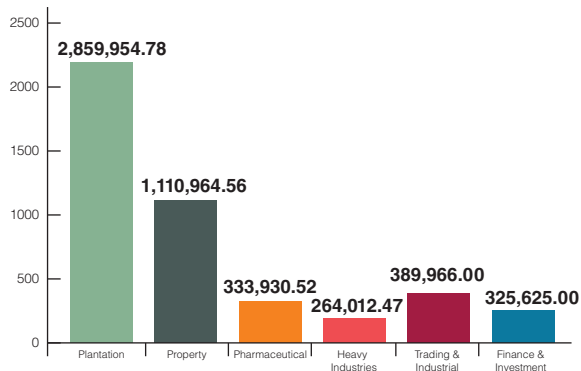
We are committed to stringent management of hazardous waste, with multiple measures in place to ensure we abide by applicable regulatory requirements particularly the Environmental Quality (Scheduled Waste) Regulations 2007 in Malaysia and the Government Regulation No. 101/2014 on Hazardous Waste Management in Indonesia.

In 2019, there were no non-compliance incidents with regards to hazardous waste in our operations.

For general waste, we aim to reduce waste generation and reuse them where possible. Examples of various initiatives conducted in 2019 are:

- Employing Zero Waste Strategy, where biomass waste used for mulching in Plantation Division
- Implementing Reuse, Reduce and Recycle (3R) programme in Pharamaniaga
- Encouraging our employees and guests at our Hotels & Resorts to go paperless in the effort to reduce on paper waste
- In University of Nottingham Malaysia (UNM), food and green waste are converted into organic compost

WATER MANAGEMENT

Total Water Withdrawal
by Division (m³)

TOTAL WATER WITHDRAWAL

5,284,453.34 m³

We are committed to reduce freshwater consumption across our operations. In 2019, 59% of water withdrawn was purchased water, while 41% was sourced from surface water. Our divisions conducted various initiative to reduce our freshwater consumption for example:

- In Plantation Division, rainwater was harvested and treated in order for it to be safe for supply to the homes of our staff living within the estates;
- At our manufacturing site, rejected water from manufacturing processes were reused for toilet water flushing and as cooling water for our cooling tower; and
- At our shipyards, we have implemented a strong enforcement and monitoring campaign to guard against leaks in the water distribution system.



Achieved

zero

non-compliance

with wastewater discharge regulations in 2019

Moving Forward

- To establish a Group-wide GHG emission reduction target to drive operational eco-efficiency.
- To continue monitoring, tracking and implementing initiatives that will facilitate the reduction of our environmental footprint.
- To continue identifying innovative means to prevent and minimise waste generation at source, before we resort to reusing, recycling or disposing of waste.
- To remain fully compliant with local regulations pertaining to management of hazardous waste and wastewater discharge.



BHB Sustainability Report 2019 p.51-60

