

PERTAMINA'S LOW CARBON PRODUCTS

"Pertamina remains committed to accelerating energy transition in accordance with the government's targets. This commitment is a strategic step for Pertamina by developing lower-carbon energy products and solutions to achieve the consensus goal of providing equitable access to sustainable energy and protecting our climate for generations to come."

Nicke Widyawati

President & CEO of PT Pertamina (Persero)

Pertamina formulates numerous greener energy products as part of commitment to reduce emission production.

Pertamina's low carbon products generate:

USD 288 Mio

of revenue by October 2022

*Unaudited

Pertamina's Aspiration: Support the 2060 Net Zero Emission Target

Pertamina has a vision to support the Government in realizing Net Zero Emission by 2060 with 2 important pillars of strategic initiatives:

Strategic Initiatives

Decarbonization of business

Energy efficiency

Green power generation

Loss reduction (e.g., flare, methane)

Fleet electrification

Static equipment electrification

Carbon capture and storage (own use)

Low/ zero carbon fuel for fleets

New business building

Renewables

EV Charging and Swapping

Blue/Green Hydrogen (manufacturing, transport)

Nature-based solutions

Battery and EV

Biofuels

Integrated CCS/ CCUS service (domestic/ regional

carbon sink)

Carbon market business

Commercial Development



Pertamina Renewable Diesel (Pertamina RD)

Pertamina launched green energy product which is originated from 100% Palm Oil. This product used Refined, Bleached, and Deodorized Palm Oil Material, hence it categorized as environmentally friendly fuel



Pertasurf

Special synthetic chemical product formulated for AFFF, OSD, and Degreaser all at once, using environmentally friendly emulsifier technology. It is highly biodegradable, more effective, and multifunction capability.



Geothermal Steam & Electricity

The use of geothermal fields where the steam produced is used to generate electricity thereby reducing emissions and optimizing domestic natural energy resources



Biomass/Biogas Power Plant

NRE-based power generation through the optimization of biomass as an energy source. It uses Palm Oil Mill Effluent (POME) palm oil waste as fuel for electricity generation.



Solar PV

Solar-powered power plants as one of the environmentally friendly energy sources that convert solar energy into electricity using photovoltaic modules.



Smooth Fluid

Special synthetic chemical product formulated using environmentally friendly material for drilling activity





Sustainable Aviation Fuel

Pertamina developed BioAvtur J2.4, palm-oil based aircraft fuel in Cilacap Refinery. It is proven to deliver performance equivalent to fossil-based aviation turbine (avtur) fuel but with lower carbon emission.



Green Energy Station (GES)

An innovative Charging Station that uses solar panels as an energy source and provides EV Charging facilitation also a wide selection of environmentally friendly products such as the Pertamax Series and Dex Series.



Gasoline-Methanol-Ethanol (GME)

Gasoline products with a blending mixture of methanol and ethanol that reduce sulfur content