

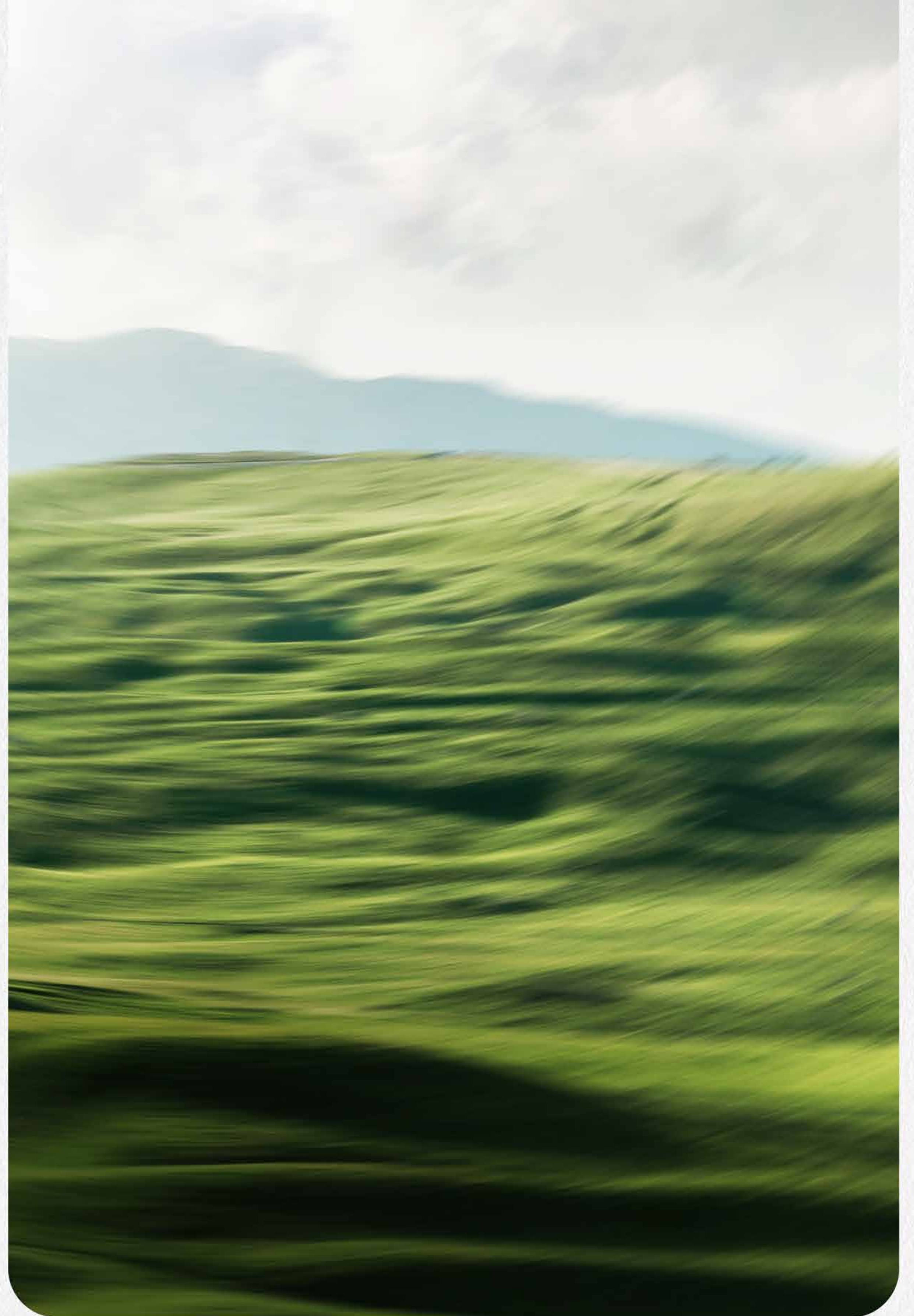


For the future we live in

UEM Lestra was created to support and develop Malaysia's green industries from Renewable Energy (RE), green infrastructure and transportation, to waste management. The intent is to create and nurture domestic champions and initiatives that drive the nation's decarbonisation agenda towards achieving net zero carbon emissions by 2050.

UEM Lestra is a wholly-owned subsidiary and the green industries arm of UEM Group, who in turn is wholly-owned by Khazanah Nasional Berhad, the sovereign wealth fund of Malaysia.

The name Lestra is derived from the Bahasa Melayu word, "Lestari" which means "sustainable".



Driving Malaysia's green vision

As Malaysia takes concrete measures towards being a carbon neutral country, a key milestone is at least 37.8% of the country be RE-powered by 2030.

UEM Lestra focuses on green industries as well as the decarbonisation of industries.

Core Sectors



Renewables & Storage

Infrastructure such as solar farms, small hydro and biogas plants



Integrated Energy Solutions

Green building services, end-to-end energy services such as distributed energy generation technologies and energy efficiency related services



Green Electric Mobility

Including electric vehicle charging infrastructure maintenance and services



Circular Economy: Waste Management & Recycling

Including waste treatment and disposal



The decarbonisation of industrial parks

The decarbonisation of industrial parks represents a crucial step towards achieving sustainable development goals. As industries play a significant role in the global green economy, efforts to reduce carbon emissions and promote cleaner technologies are gaining momentum.

Our commitment to decarbonising industrial parks, underscores our dedication to fostering a greener future for generations to come.



Sustainable initiatives

As one of the country's leading RE and green agenda drivers, UEM Lestra works with our subsidiary companies and strategic partners across and beyond our core sectors.

Subsidiaries



Strategic partners





Cenergi SEA Berhad (Cenergi) is a sustainable energy solutions company specialising in emissions through development of and investments in Renewable Energy projects specifically biogas, biomass, solar and small hydro plants.



Biogas

Our biogas power plants avoid the release of methane and help to reduce carbon emissions and provide renewable energy.



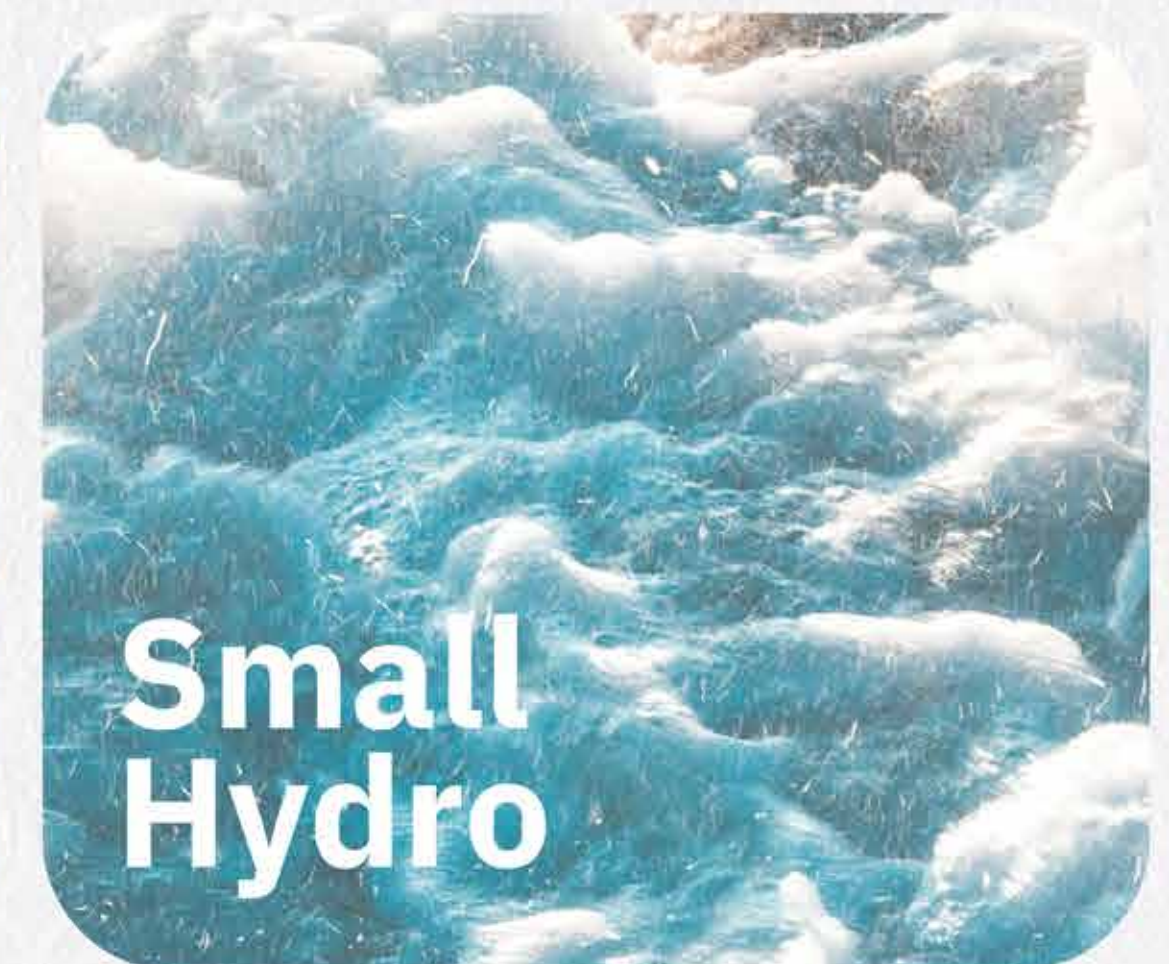
Biomass

Our plants produce biomass fuel from by-products of the palm oil production process, producing a sustainable energy source whilst reducing carbon emissions.



Solar

Cenergi offers end-to-end solar energy solutions with advanced technology for clients, to minimise environmental effect and reduce utility costs.



Small Hydro

Cenergi is also investing in small hydropower projects using the run-of-river concept. Small hydropower plays a key role in long-term decarbonisation scenarios, contributing to reaching renewable energy targets set in the National Energy Transition Roadmap (NETR).

Our Goals



200MW
of renewable
energy capacity



RM200 million
investment in energy
efficiency projects and
sustainable ventures



RM200 million
worth of
external EPC



2 million tonnes
of annual carbon
emissions avoidance



One of the most attractive RE resources

Biogas is widely recognised as one of the most attractive renewable energy resources. It has multiple applications such as power supply and fuelling vehicles.

The use of Palm Oil Mill Effluent (POME) – a methane-rich by-product of palm oil production process, as a source to produce electrical energy reduces the mill's carbon emissions whilst protecting the environment from hazardous methane emissions.

Cenergi manages Malaysia's largest biogas power plant - the Felcra Jayaputra-Cenergi Berhad Biogas Power Plant located in Jerantut, Pahang. With a capacity of 5.5MW, the biogas power plant has the capacity to supply approximately 14,000 houses or an estimated 70,000 people with stable and adequate electricity.

Methane gas can also be extracted from the effluent water generated by cassava processing plants. This is generated at the Cenergi biogas to energy plant in Lampung, Sumatera, Indonesia.

Our biogas power plants help to reduce carbon emissions and provide renewable energy.

19 biogas plants are currently in operation and 14 more are currently under development.



Reducing reliance on fossil fuels

Empty Fruit Bunch (EFB) pellets is a sustainable biomass fuel and plays a key role as an additional solution to Malaysia's RE potential - directly reducing our reliance on fossil fuels.

Cenergi's EFB Pellet Plant in Jerantut, Pahang produces EFB pellets utilising up to 23% of palm oil production bio-waste. The plant is running in full commercial mode with a capacity of 2 tonnes per hour (tph). The processing of EFB pellets produces a sustainable energy source whilst reducing carbon emissions.

Three other plants are being developed, one in Pahang with a capacity of 3 tph and two in Perak with capacities of 3 tph and 2 tph.



Contributes to Malaysia's low carbon ambitions



Mitigates release of methane from under-utilised EFB



Utilising renewable fuel reduces CO₂ emissions from coal-fired power plants



Effective utilisation of an indigenous resource



NUR
power

NUR Power, Malaysia's first Independent Power Utility company, specialises in the generation, transmission, distribution, and retail of electricity in the country. The company has been granted exclusive rights to sell electricity in Kulim Hi-Tech Park (KHTP).



As part of NUR Power's ESG initiatives and to ensure continuous, reliable supply of quality power in KHTP, it is developing a 130MW CCGT (Combine Cycle Gas Turbine) plant. The new plant is expected to be completed in 2025.

NUR Power is also currently developing a 50MW solar farm to be completed in 2025 with another 50MW to be developed in the same year.



Creating sustainable alliances together today, for tomorrow



UEM Lestra, in collaboration with partners HEXA Renewables, Blueleaf Energy and ITRAMAS, have penned a pivotal partnership.

Together, we are embarking on an initiative to develop a 1GW hybrid solar power plant and a RE Industrial Park. This flagship venture, is in line with the strategic and high value national flagship energy transition projects under Malaysia's National Energy Transition Roadmap (NETR).



Making better decisions today for a more sustainable tomorrow

UEM Lestra is taking action to create a more sustainable future. As part of UEM Group we aim to preserve and protect our environment, ensure our communities are nurtured and aspire to make a long lasting and positive impact in the area of governance.





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