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Special

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## PETRONAS shaping Asia's energy future



The Star, Malaysia



## By DOREENN LEONG

AS the sun rises on a new era of AS the sun rises on a new era of energy, few companies are as uniquely positioned – or as resolutely committed – to lead the transition to a lower carbon future as national oil company Petroliam Nasional Bhd (PETRONAS).

With a legacy rooted in powering Malaysia and the region, the oil and yas riant is not merely

oil and gas giant is not merely responding to change – it is engi-

neering it.
At the heart of PETRONAS' At the heart of PETRONAS' long-term roadmap lies a bold ambition: to achieve Net Zero Carbon Emissions (NZCE) by 2050, which contributes to Malaysia's net-zero commitments. It announced a net-zero ambition in 2022.

But this is no ordinary pledge. It's an intricate strategy that balances the dual imperatives of energy security and environmental stewardship.

energy security and environmen-tal stewardship.

According to PETRONAS pro-jects, technology and health, safe-ty, security and environment sen-ior vice-president Mohd Yusri Mohamed Yusof, the plan rests on three key pillars.

One of the pillars of its energy transition strategy is to focus on its core oil and gas production, providing more energy with less emissions.

emissions.

The second pillar is to explore The second pillar is to explore new business growth opportunities in renewable energy, hydrogen, green mobility, specialty chemicals, carbon capture and storage (CCS) and bio-based value chain to meet the demands of a changing energy landscape.

The third pillar focuses on its commitment to achieve net-zero carbon emissions by 2050.

Mohd Yusri points out that its NZCE contains short, medium and long-term targets that rely on

and long-term targets that rely on four decarbonisation levers to improve its operational excel-lence and environmental perfor-

These are zero routine flaring

These are zero routine flaring and venting, energy efficiency, electrification and CCS.

Already, the results are showing. "We are making steady progress toward our 2030 target of reducing our group-wide emissions by 25%," Mohd Yusri says.

PETRONAS capped its emissions at 46.06 million tonnes of carbon dioxide equivalent

sions at 46.06 million tonnes of carbon dioxide equivalent (MtCO<sub>2</sub>e) in Malaysia – below its 2024 target – and halved its methane emissions from 2019 levels well ahead of schedule. "Our NZCE Pathway sets short and mid-term targets to reduce methane emissions in our group-wide and Malaysian natural gas value chain. Accelerating methane emissions is important, given methane's potent impact on global warming," he adds.

Beyond its decarbonisation efforts, Mohd Yusri shares that PETRONAS is also expanding into

PETRONAS is also expanding into lower carbon energy growth

"For instance, in 2022, we established Gentari to fully focus on clean energy solutions in the energy transition space, including renewable energy, hydrogen and PETRONAS announced its net-zero ambition in 2022

Firm committed to achieving net-zero carbon emissions by 2050



energy through new business and advancing our pathway to net zero.

"Delivering net-zero carbon emissions is a key component of our sustainability approach. So sustainability is very much directly integrated into our core busi-ness strategy," Mohd Yusri high-lights. lights

ness strategy." Mohd Yusri highlights.

The company has embedded environmental goals across its operations and supply chain as well as developed sustainability solutions in-house and with partners, introducing advanced materials to leveraging corrosion prediction tools.

Malaysia's geology positions it well as a CCS hub, and PETRONAS is leading the charge. It views CCS not just as a way to decarbonise its offshore operations, but also as a scalable business model for hard-to-abate industries at home and abroad.

At the same time, electrification is gaining momentum. PETRONAS is deploying solar solutions at its onshore facilities and exploring offshore electrification strategies.

Through Gentari, its clean energy subsidiary, the company is also building out solar projects, electric vehicle (EV) charging networks and hydrogen logistics – all crucial levers in the global decarbonisation effort.

"In green mobility, Gentari is

bonisation effort.
"In green mobility, Gentari is expanding its EV charging network and promoting electric vehicle adoption through its Vehicle-as-a-Service model, which offers seamless fleet electrification supported by EV leasing, maintenance and charging services

es.
"On the hydrogen front, we are "On the hydrogen from, we are maturing hydrogen opportunities while exploring logistics solutions through strategic partnerships for clean ammonia shipping and floating storage," Mohd Yusri

floating storage," Mohd Yusri says.
As the world navigates the complex realities of the energy transition, PETRONAS is emerging as a torchbearer – not just for Malaysia, but for Asia.
Its leadership at the Energy Asia forum and technical partner-ship with the UK-based Energy Institute underscore its commit-

Institute underscore its commitment to fostering innovation ecosystems for the region's net-zero

In the words of Mohd Yusri: "We're not just delivering energy
– we're building a sustainable leg-acy." And in doing so, it is lighting the way for others to follow.