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11 AUG, 2025

# Clean energy shift in Malaysia targets equity, regional growth



The Malaysian Reserve, Malaysia

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## Clean energy shift in Malaysia targets equity, regional growth

The govt is prioritising energy sector as a high-impact launch point

MALAYSIA is accelerating efforts to recalibrate its clean energy transition, with fresh moves to reform tariffs, consider nuclear energy, expand Asean energy trade and reduce its over-reliance on subsidies — all while ensuring equitable access and sustainable development.

Speaking at the Malaysia Energy Policy Forum hosted by MBSB Group recently, Energy Transition and Water Transformation Minister Datuk Seri Fadillah Yusof said the country must adopt a pragmatic, people-centred approach to meet its energy security and climate goals.

"Malaysia's energy transition must be pragmatic, people-centred and equitable. No sector or community should be left behind," he said during his keynote address, reaffirming the government's commitment to achieving net zero emissions by 2050 under the National Energy Transition Roadmap (NETR).

As of July 2025, the share of renewables in Malaysia's electricity mix has reached 31%, driven by large-scale solar (LSS) and rooftop systems. The next milestone is 40% by 2035 and 70% by 2050 — an ambitious target, especially as the energy sector accounts for 70% of the country's total carbon emissions.

Fadillah, who is also deputy prime minister, said this goal is not just about installing new generation capacity, but about "mobilising hearts and minds" across ministries, industries and communities.

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NEM4.0 to Replace Costly Net Energy Inventory Scheme

NEM.40 to Replace Costly
Net Energy Inventory Scheme
Deputy secretary general (Binergy) Marcena
Mahpudz revealed that a new iteration of
the Net Energy Metering (NEM) scheme—
tentatively called NEM.40— is being finalised and will be announced by this month.
This comes after the government discontinued the earlier net energy inventory
programme due to its unsustainable subsidy burden.
—The previous NEM structure cost the
government nearly RM250 million in subsidies due to avoided energy costs. With the
new tariff structure implemented in July,
we are moving towards more targetted and
transparent support; Marcena said.
While she did not confirm whether the
new scheme will retain the NEM name, she
hinted that it could be a hybrid of NEM,
Self-Consumption Renewable Energy System
(SelCo) and the Community Renewable
Energy Aggregation Mechanism (CREAM)
—which facilitates shared solar generation
and consumption at the community level.
In a separate media session, Padillah
explained that SelCo enables consumers to
four hours of solar usage to seven to eight
hours before needing to draw from the
to four hours of solar usage to seven to eight
hours before needing to draw from the
tre four hours of solar towage to seven to eight
hours before needing to draw from the
This community-based
models within a Skm radius, where residents
can collectively subscribe, use and manage
their energy system.
—This community sharing approach aligns
with the goals of CREAM, allowing commumities to govern how energy is generated and
used; he added.

When asked whether the new scheme
would adopt a hybrid model, Fadillah
reaponaled that the reservence has set to

when asked whether the new scheme would adopt a hybrid model, Fadillah responded that the government has yet to finalise the details, adding that the full announcement will be made in due course.

### Nuclear Energy Under Formal Review

LNG Imports, Gas Infrastructure Reforms to Reshape Energy Mix The forum also discussed the impact of Malaysia's recent liquefied natural gas (LNG) trade negotiations with the US, which could increase gas imports.

Marcena explained that this would shift the national energy mix, requiring a holistic plan that includes regasification, upgraded pipelines and integration into the national grid.

The demonstrates

grid.

"The demand for gas is rising not only from the power sector but also from non-power industrial users. That is why we approved RNA3 billion for grid upgrades—to ensure digitalised, smart and efficient



na at the Malaysia Energy Policy Forum recently



Nuclear power has officially entered the planning pipeline as a post-2030 consideration, says Fadillah

### Water Pricing, Zoning and Recycled Cooling for DCs

Water Pricing, Zoning and Recycled Cooling for DCs
The government is also reforming water tariff structures, particularly for high-demand sectors like data centres (DCs), which are forecast to grow rapidly in Malaysia.

Water falls under state jurisdiction, but the federal government is working with the National Water Services Commission (SPAN) to introduce policy guidance and performance benchmarks for utility providers.

"We are introducing a specific tariff for the data sector and we are encouraging all data centres and industry players to use recycled water," Fadillah said.

States are also being asked to set up district cooling zones to manage water usage efficiently and reduce pressure on clean water supplies.

"This zoning model ensures recycled water is used for cooling while fresh water is served for human consumption," he added.

Padillah also cautioned against overreliance on industry estimates when planning energy supply.

"Data centres often overestimate. We want to see actual consumption fits before making decisions like launching LSSG. LSSS has been announced while LSSs will depend on real demand," he noted.

ASEAN Power Grid to Support Cross-border Resilience Fadillah said Malaysia's long-term energy security cannot be achieved in isolation, and the government is banking on deeper cross-border electricity integration under the ASEAN Power Grid (APG).

dillah and Mareena at the Malaysia Energy Polic
Malaysia has agreed to transmit up to
2,000-megawatt (MW) of hydroelectric power
from Sarawak to Peninsular Malaysia through
inter-regional transmission lines, with interconnections to Singapore, Thailand and Laos
already operational. New links to Vietnam
and Brunei are being explored.

"We are also working with Laos, Thailand
and Singapore (ILTMS) framework to
facilitate energy exports. We to up any shortfall, ensuring reliable flow, 'be added.

He cited a recent gas pipeline incident in
Cyberjaya that forced supply closures from
the south to the north.

"Thanks to our Thai connection, we were
able to maintain supply continuity in the
north,' he said.

Fadillah also revealed plans for an undersea cable linking Vietnam to Perak, where
30% of incoming energy will be used domestically and 70% exported to Singapore.

"This is how we ensure ASEAN becomes
a hub for clean energy — through interdependence, not isolation,' he stressed.

Tariff Reform Protects

a nut for crean energy—through interde-pendence, not isolation; he stressed.

Tariff Reform Protects
Domestic Users
The new tariff structure, effective from July
2025, unbundles energy costs into gene-ration, capacity, energy and network com-ponents — improving transparency and avoiding cross-subsidisation.

Marcena said under the previous model, domestic consumers indirectly subsidised industrial users.

"Now, the cost burden shifts to the top 10% of energy consumers, like heavy indus-tries and large data centres.

"There is a special ultra-high-volume cate-copy. These users will bear the cost of their demand, while 85% of consumers — espe-cially domestic users — will not be affected; she added.

Fadillah added that the earlier system unfairly benefitted those who could afford solar, while others paid full tariff rates.
"Some users with solar panels can sell energy back to the grid. But those with-out solar still pay full price. That is why we must revisit the system to ensure it is fair and equitable for all; he said.

Financing the Transition:

in 2024, including floating solar plants, low-emission locomotives and carbon-smart data centres.

Finance is the oxygen of the transition. Every solar panel, every green locomotive begins as a line item on someone's term sheet," he added.

The group aims to increase its green and sustainable financing commitment from RM10 billion to RM15 billion by next year.

MBSB representatives noted that its majority shareholders, Employees Provident Fund (EPF) and Permodalan Nasional Rhd (PNB), are both pushing for stronger environmental, social and governance (ESG) standards across their portfolio companies.

We now assess climate risk alongside credit risk. Ummanaged exposure is the real threat," said Wan Kamaruzaman.

Malaysia also leads the world in Islamic green sukuk issuance, accounting for 262 out of 291 issuances globally.

Fadillah said this is an advantage the country must leverage to fund renewables and nature-based solutions.

Bank Negara Malaysia's (BNM) Low Carbon Transition Facility (LCTF), which offers concessional financing out to RM10 million for small and medium enterprises (SMEs) decarbonisation, was also cited as a scalable model.

Wellbeing Economy,

wellbeing Economy,
Madani Values
In response to civil society calls to shift away from GDP-centric development, Fadillah reiterated that the Madani government is focused on economic inclusivity, sustainability and long-term wellbeing.

"The challenge is to balance economic growth with cost and affordability, especially for low-income groups. We need policies that are fair and just — not just ambitious."

He added that innovation and privatepublic collaboration will be key to achieving a managed and investable energy transition.

"Energy and water are linked, Without water, there is no energy, Without energy, there is no water. Our policies must reflect this interdependence," he added.

A Enture Ameliored in Resilience.

A Future Anchored in Resilience, Regional Integration
Fadillah called on all strakcholders—government, industry, financiers and communities—to co-own the transition and deliver our comes that are both inclusive and realishie.