

AUTHOR: KIRENNESH NAIR SECTION: STARBIZ PAGE: 2 PRINTED SIZE: 491.00cmi; 1/2 MARKET: Malaysia PHOTO: Full Color ASR: MYR 24,805.00 ITEM ID: MY0064167672

17 JUN, 2025



PETRONAS sees energy demand doubling by 2050



The Star, Malaysia

PETRONAS sees energy demand doubling by 2050

Urgent need to scale investments, diversify energy mix

OIL AND GAS

By KIRENNESH NAIR kirennesh@thestar.com.my

KUALA LUMPUR: The global energy sys-tem is under severe strain from geopolitical conflicts, climate change and rapid technological shifts, says Petroliam Nasional Bhd

logical shifts, says Petroliam Nasional Bhd (PETRONAS) president and group chief executive officer (CEO) Tan Sri Tengku Muhammad Taufik Tengku Aziz, as he warns of a "polycrisis" gripping the sector. Speaking at the opening of Energy Asia 2025 yesterday, Tengku Muhammad Taufik said the region's energy demand is set to nearly double by 2050, requiring "the patience energy decenter to come together entire energy ecosystem to come together with synchronised and aligned efforts for a just and equitable transition where no

community is left behind." He said energy security and climate action must not be viewed as competing but "complementary agendas", adding that the region must urgently scale investments and diversity its energy mix to meet both goals diversify its energy mix to meet both goals.

Recent developments - including the escalation of conflict near the Strait of Hormuz, which channels 20% of global oil supply – have "sent prices surging in antic-ipation of a supply shock", he said, warning that volatility is becoming the new norm. "These seismic shifts of global conflicts, technological revelations and climate

change have manifested in what PETRONAS describes as a 'polycrisis'," he added.

Tengku Muhammad Taufik noted that energy demand from data centres alone is expected to more than double, from 415 terawatt-hours (TWh) in 2024 to 945TWh globally by 2030 – accounting for over 20% of total demand growth during this period.

He said the Asia-Pacific region - home to 4.8 billion people - is projected to account for half of global energy demand by 2050.

"To address Asia's growth ambitions even as it aims to achieve net zero, US\$88.7

These seismic shifts of global conflicts, technological revelations and climate change have manifested in what PETRONAS describes as a 'polycrisis."

Tan Sri Tengku Muhammad Taufik Tengku Aziz

trillion in energy investment will be need-ed until 2050," he said. "On this note, I would argue that invest-ment and spending across both conven-tional and renewable energy systems continue to be required."

According to Tengku Muhammad Taufik, while fossil fuels still make up over 80% of the region's energy mix, Asia is well-positioned to scale renewables and decarboni-sation efforts through solar, wind, carbon capture, utlisation and storage and cleaner natural gas.

He said three things are important. Firstly, diversifying the energy mix.

"Nations must build a more balanced portfolio of both low-emission options and emissions-abated fuels to bolster energy resilience across different economies and use cases."

This means more lower emissions barrels, sustainable aviation fuels and other biofuels, liquefied natural gas sourced from increasingly challenging terrains, lower- or zero-carbon hydrogen, solar and

wind energy, carbon capture. "Secondly, scaling up energy invest-ments. As energy is the lifeblood of econo-mies, investments will be critical to ensure energy availability and affordability

Lastly, fostering regional collaboration. "We must all do this together if we are to bring forth our common energy future," Tengku Muhammad Taufik concluded.

Echoing the sentiment, Saudi Aramco president and CEO Amin H Nasser warned

that the "transition plan" had been "oversold and under-delivered", particularly in Asia. "We were told it would be rapid, painless

and inevitably mean the collapse of conventional energy," he said. "Yet oil demand still exceeds 100 million

barrels per day with no sign of collapsing.

Nasser argued that "pragmatism is replacing idealism" and said fossil fuels will remain central in the energy mix, as emissions from these sources are reduced. The goal is not to abandon traditional

energy; it is to improve it while expanding new solutions at a realistic pace.

At a separate panel discussion, Institute of Strategic and International Studies Malaysia chairman and chief executive Datuk Mohd Faiz Abdullah said coopera-tion is essential for a successful energy transition, given Asean's economic and technological diversity.

He said developing skilled workers, improving financial support for poorer countries and addressing regional imbalances are key challenges for a fair transition.

Meanwhile, Organisation of Petroleum sporting Countries secretary-general Exporting Countries secretary-general Haitham Al Ghais emphasised the importance of continued investment in oil, noting that "from now to the year 2050, there are requirements for a staggering US\$17.4

trillion for the oil industry". "We have to transition. We have to move forward. We have to take care of climate change. But it cannot be at the expense of energy security nor energy affordability.'

Provided for client's internal research purposes only. May not be further copied, distributed, sold or published in any form without the prior consent of the copyright owner.