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Navigating the Transition to Net-Zero Emissions in Southeast Asia

11 June 2024

Report launch - webinar

on behalf of Clean, Affordable and Secure Energy (CASE) for Southeast Asia



Agenda



- Input presentation
- Panel with experts in the region
- **Q&A** with the audience



Input presentation

Key findings on the role of gaseous energy carriers and renewable-based electrification for net-zero and energy security

Key finding 1:



To meet climate targets and growing energy demand at lower cost, the use of fossil gas must

remain low overall and phase out in the long run



Total final energy demand for gas decreases under two net-zero

Key finding 1:



To meet growing energy demand at lower cost, the use of fossil gas must

- remain low overall and phase out in the long run
- decrease quickly in the power sector



solution

the use of hydrogen can be limited to specific cases

For replacing fossil fuels in

is the most efficient

Key finding 2:

end-use sectors





2060

2070

2000

2010 2020 2030 2040 2050

Gas-based scenario

2000

2010 2020 2030 2040 2050 2060

Highly-electrified scenario

2070

Key finding 3:



To align with net-zero targets, the speed of renewable electricity development, particularly solar power,

- needs to accelerate significantly
- go beyond current government plans

Government plans for renewable energy in the power sector falls behind modelled net-zero pathways:







As renewables replace fossil fuels, system flexibility becomes the cornerstone of energy security. This requires:

- Storage
- Demand-side response
- Grid integration



Thank you!





Federal Ministry for Economic Affairs and Climate Action

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The report is available

At caseforsea.org/knowledge-resources/ And via the QR code to the right!

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Panel discussion



Mathis Rogner, Agora Energiewende



Dr. Pham Hoang Luong, Hanoi University of Technology and Science



Angelika David, Institute for Climate and Sustainable Cities



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Questions and answers



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