

Southeast Asia Energy Outlook

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Southeast Asia: the energy context



Southeast Asia is emerging as major global energy player

- Strong economic & population growth, urbanisation & industrialisation
- Demand increased by 60% since 2000, strong potential for further growth

A region with multiple energy challenges

- 65 million lacking access to electricity, 250 million reliant on solid fuels for cooking
- Dwindling position as a gas exporter, and a rising dependency on imported oil
- Poor air quality, vulnerability to effects of climate change

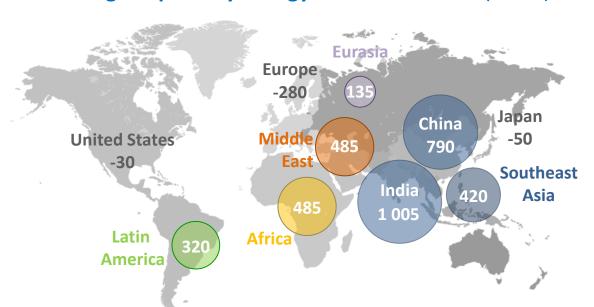
Opportunities for a cleaner energy future

- Paris Agreement ratified by all, increasing attention to renewables & efficiency
- Fossil fuel subsidy reforms making progress

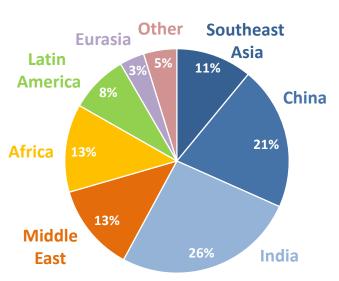
A shift in the global centre of gravity for energy



Change in primary energy demand to 2040 (Mtoe)



Share of global growth 2016-2040

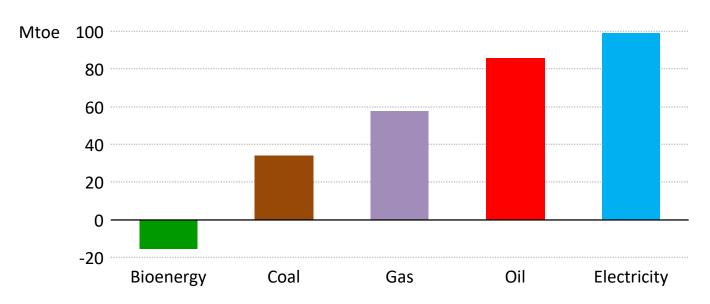


Southeast Asia, India and China are the engine of future energy demand growth, together accounting for almost 60% of the global increase to 2040

Electricity leads demand growth



Change in total final energy consumption 2016-2040

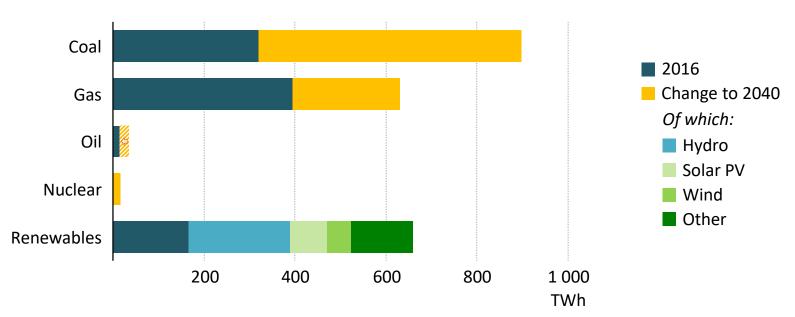


A growing middle class proves a formidable factor behind both the increase in electricity (in households) and oil (for transport)

The power mix becomes more diversified



Power generation by fuel in the New Policies Scenario

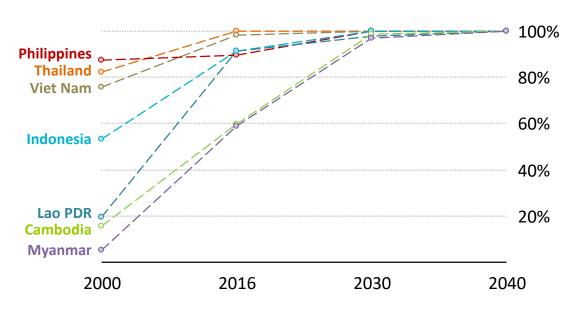


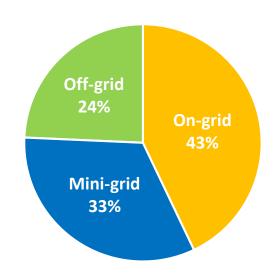
Renewables account for the largest share of installed capacity in 2040, but coal plays a major role in the projected generation mix

The road to universal electricity access



Access by type of connection, 2030



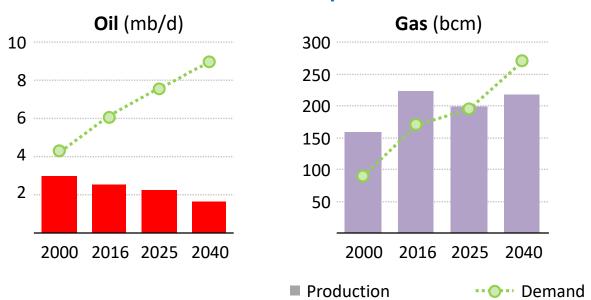


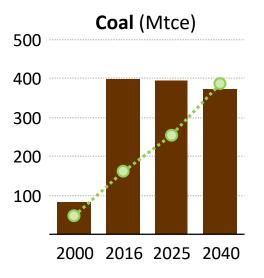
All countries in the region achieve universal access to electricity by the early 2030s, deploying a range of technologies depending on circumstance

A growing need for imports



Fossil fuel production and demand to 2040



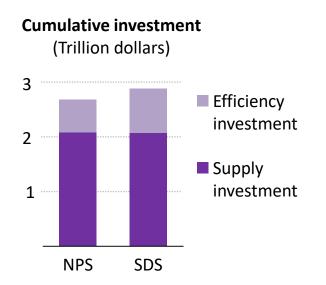


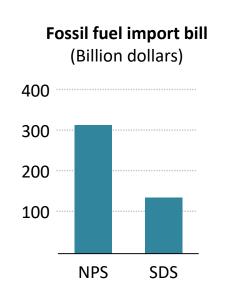
By 2040, Southeast Asia is a net importer of all fossil fuels, and the import bill exceeds \$300 billion

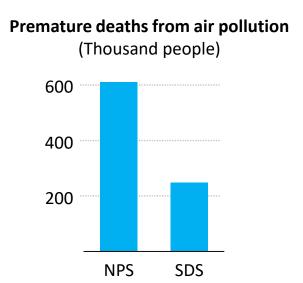
A sustainable pathway for Southeast Asia



Key indicators for New Policies (NPS) and Sustainable Development (SDS) Scenarios







A small increase in investment sets Southeast Asia on a sustainable pathway and brings multiple benefits

Conclusions



- Robust economic growth and fast-paced demographic change mean that
 Southeast Asia's role in global energy is set to expand
- The region faces myriad energy challenges; it is crucial for policy-makers to pursue a consistent strategy to meet them
- Energy efficiency, subsidy reform and enhanced regional integration play vital roles
- With a small increase in overall investment, but a major reallocation of flows,
 Southeast Asia can achieve a more sustainable pathway, with multiple benefits
- With international engagement on energy more important than ever, the IEA stands ready to be a strong partner for the region