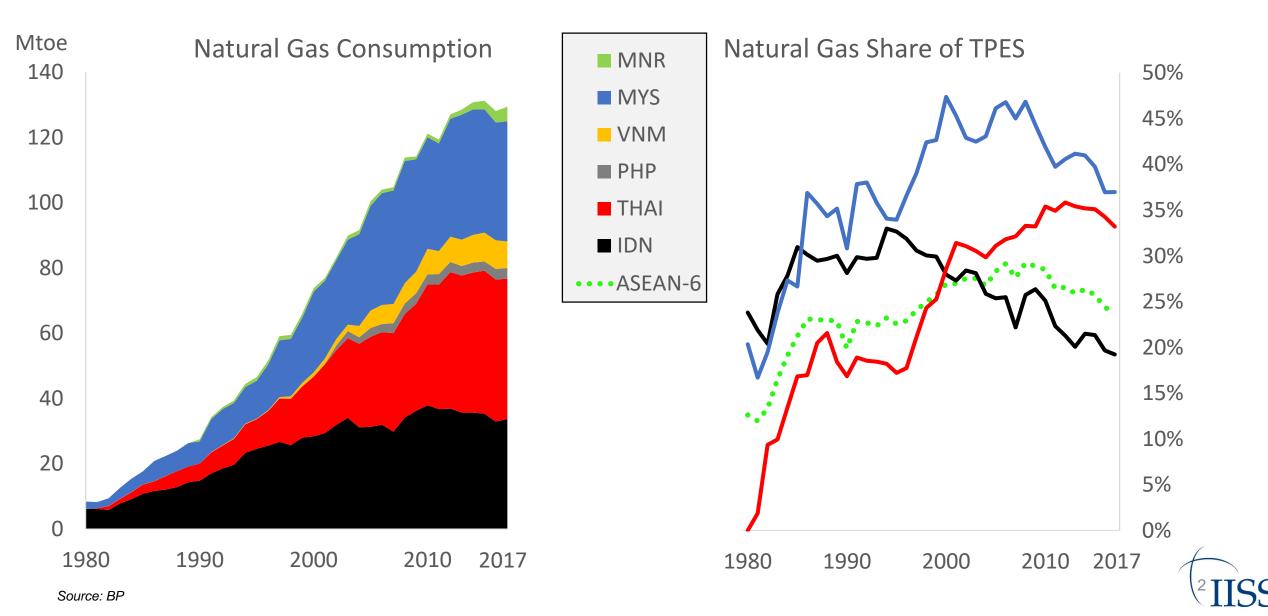


Greening Southeast Asia: Enablers and Barriers

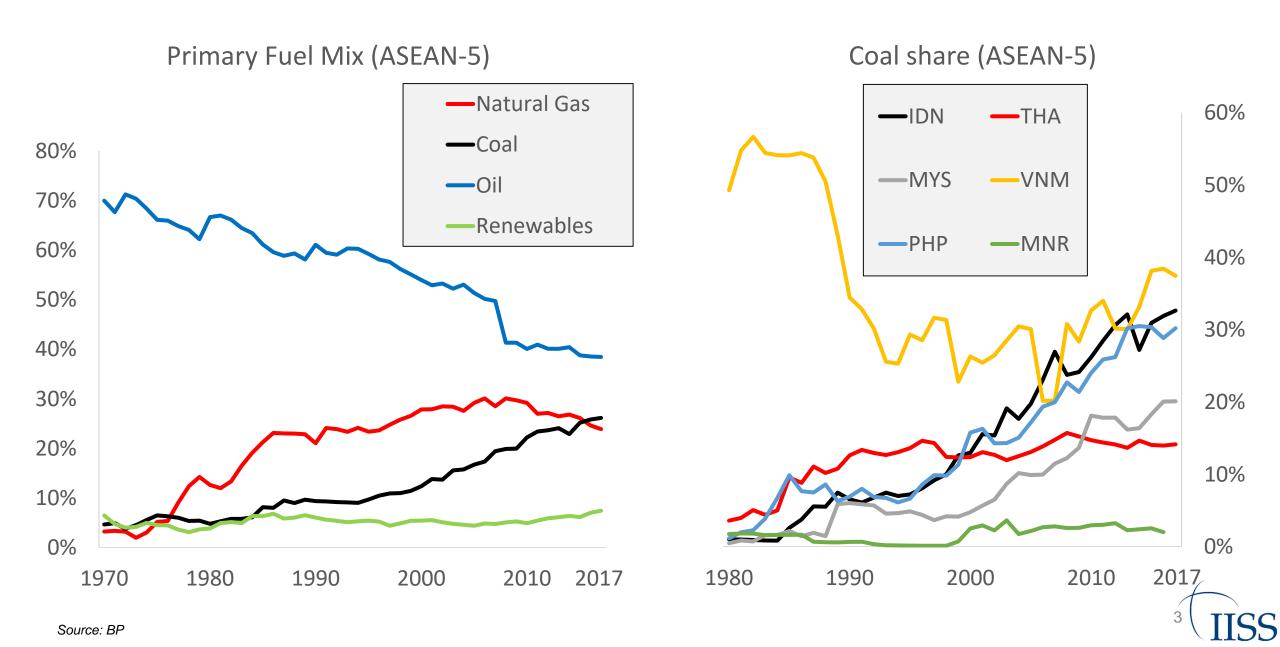
Pierre Noel & Antoine Guardiola

SIEW Think Tank Roundtable Singapore, 1 November 2018

A gas-intensive region, but 'golden age of gas' is behind us ...



...while coal is on the rise...

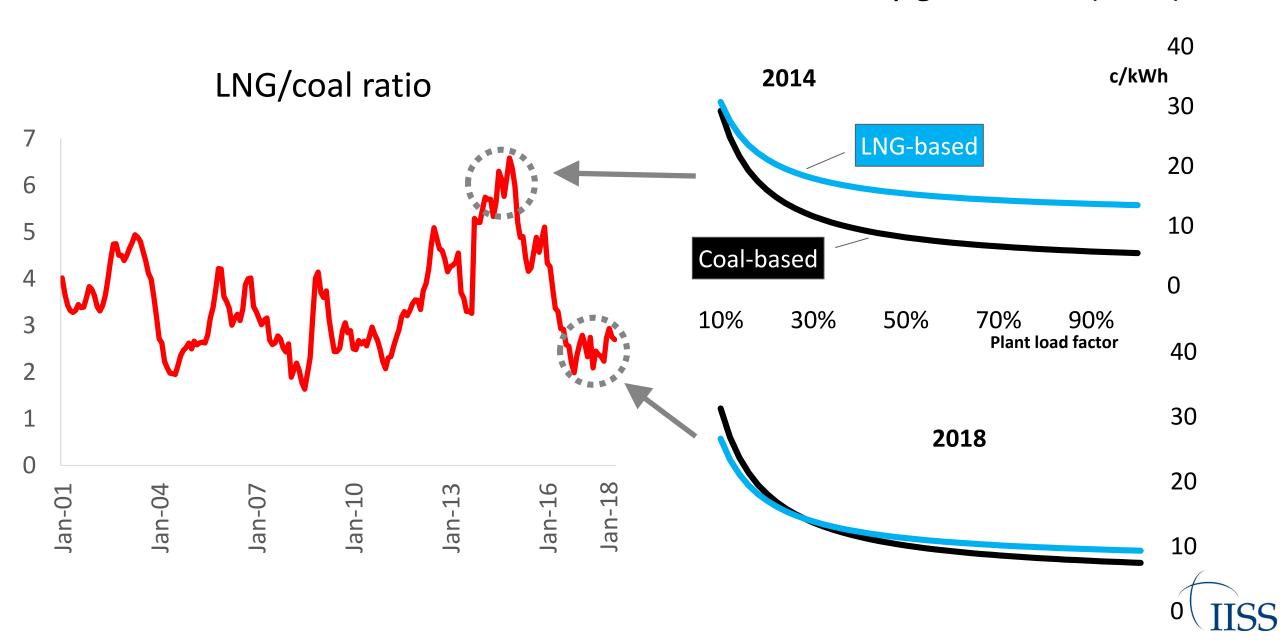




Natural gas versus coal

Enabler: much cheaper LNG

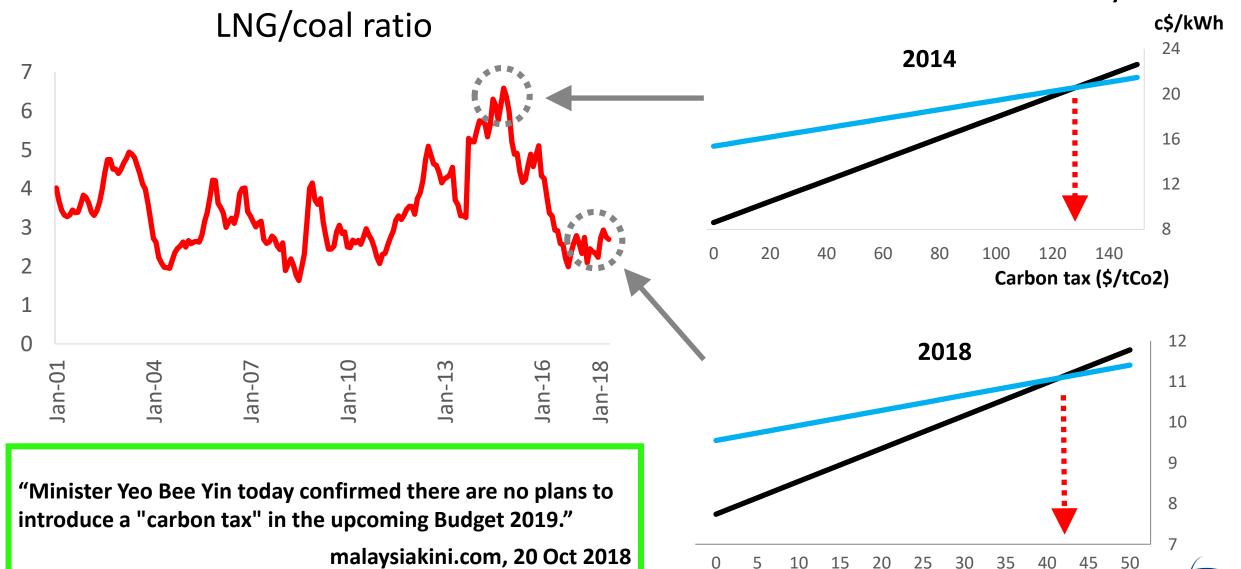
Cost of electricity generation (LCoE)



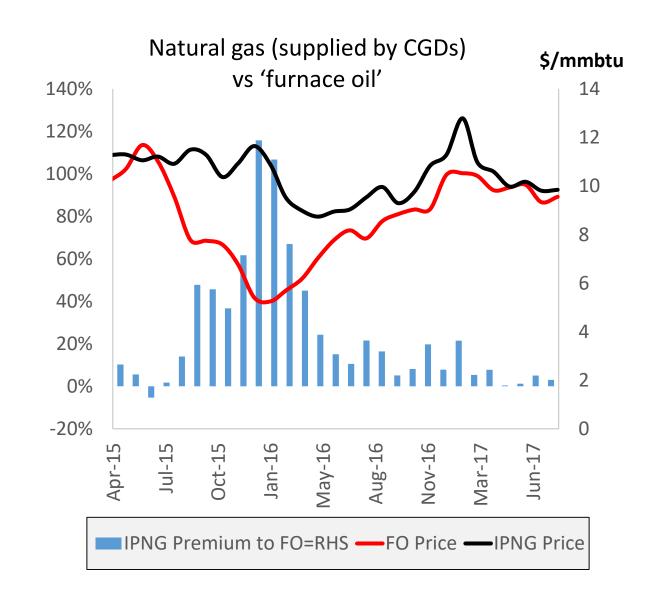
Barrier: no carbon tax

LCoE and Carbon tax in Malaysia

Carbon tax (\$/tCo2)



Barrier: competition with China in manufacturing



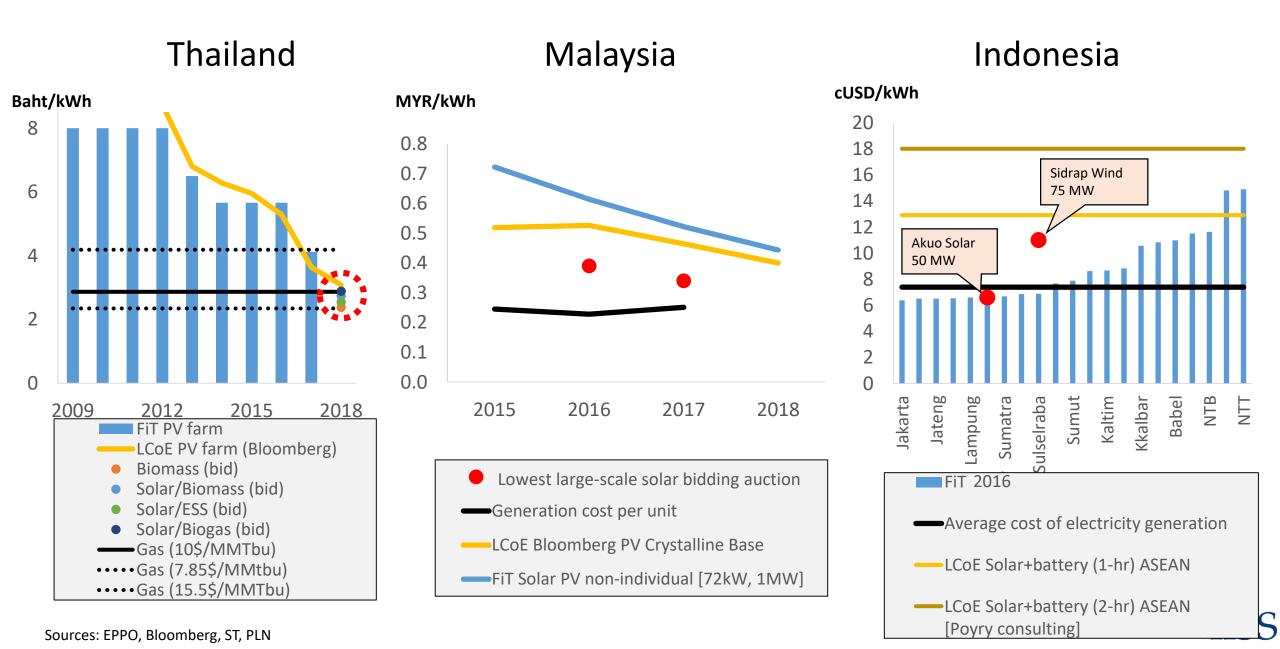




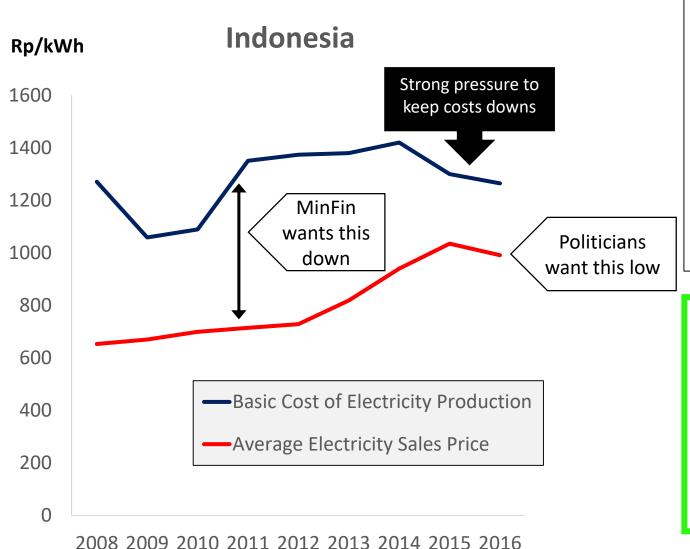


Deployment of renewables

Enabler: cheap renewables



Barrier: electricity subsidies



Indonesia caps domestic coal price for power stations, could hit miners

Wilda Asmarini, Fergus Jensen

4 MIN READ

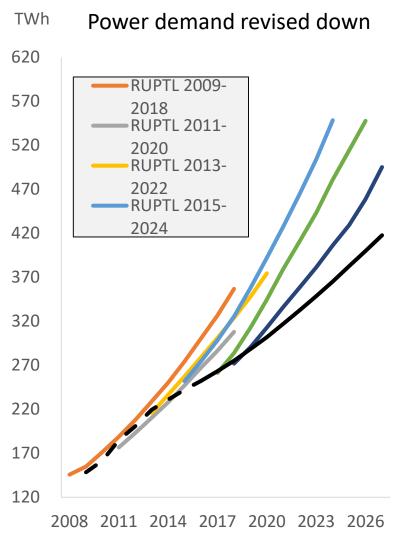
JAKARTA (Reuters) - Indonesia has capped the price of domestic coal for power stations at \$70 per ton for two years, in new rules issued this week, a government spokesman said on Friday.

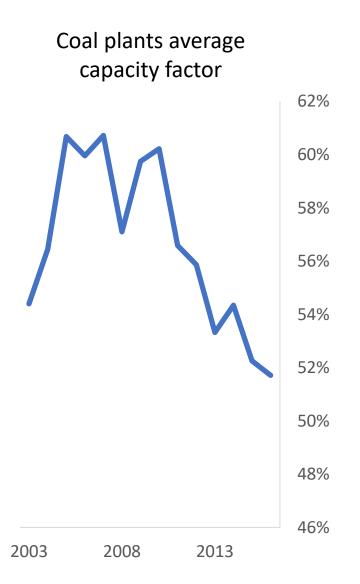
"we will not deprive the people just because we want to drive the green agenda."

Minister Yeo Bee Yin, 20 Oct 2018 malaysiakini.com



Barrier: overcapacity





- Overcapacity aggravates the threat from renewables
- Stranded assets and contracts
- Power monopolies block (or delay) renewables
- Governments face dilemma



2017

Source: PLN, MEMR

Conclusion: three key issues

1. Tax carbon, or coal

Lest renewables displace gas, with little impact on emissions

2. Phase-out subsidies

- Reduce direct barrier to 'greening'
- ...and pressure to keep cost down

3. Address stranded assets

One-off cost to unlock the transition

