

# 2018 Singapore International Energy Week Opening Keynote Address

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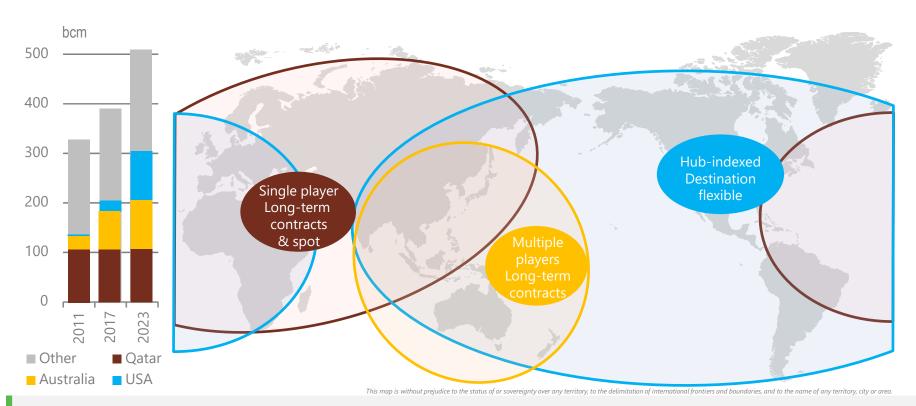
#### The global energy context



- The rise in energy prices has not been good news during a difficult period for the global economy
- Three large-scale transformations in global energy set the scene:
  - The United States is turning into the undisputed global leader for oil & gas
  - Solar PV is on track to be the cheapest source of new electricity in many countries
  - The future is electrifying, spurred by economic growth, digitalization & electric mobility
- The future of global energy markets will be shaped by Southeast Asia along with China & India

# Qatar, Australia and the United States reshape global LNG markets



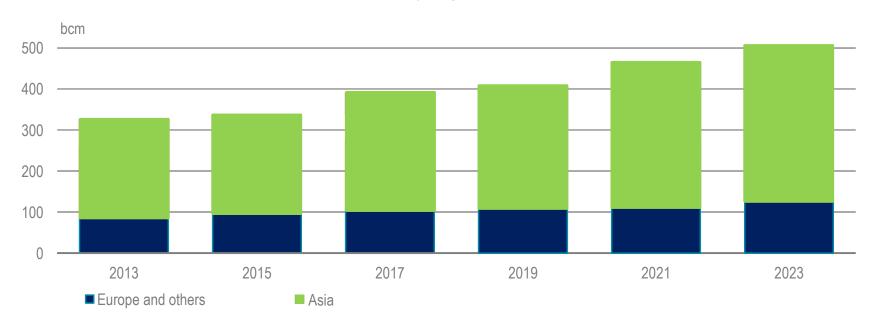


LNG trade passes 500 bcm by 2023, growing by a third in five years Qatar, Australia and the US will supply 60% of the world's LNG by 2023

## Strong growth in LNG imports is driven by Asia



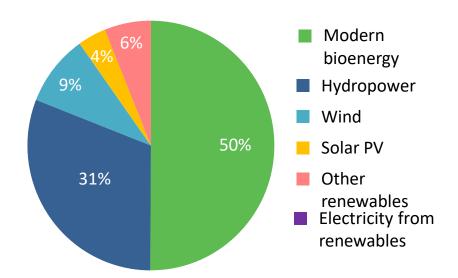
#### LNG imports by region, 2013-23



LNG trade grows at almost three times the rate of global gas demand; China is the main contributor to growth, driven by policy targets to reduce local air pollution

### Modern bioenergy: the overlooked giant of renewables

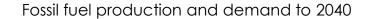
Total final energy consumption from renewables, 2017

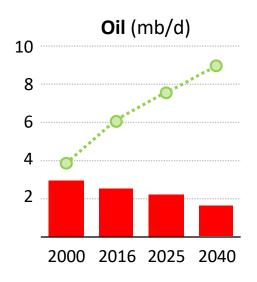


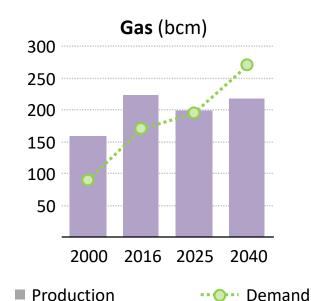
Modern bioenergy is the only renewable source that can provide electricity, heat & transport fuels;

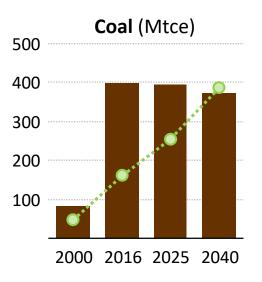
Two thirds of modern bioenergy heat is used in industry

### Growing risks to ASEAN energy security





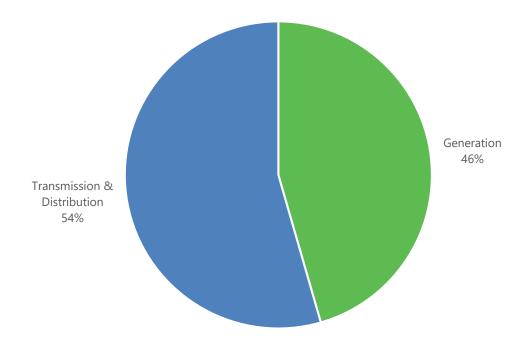




Southeast Asia is set to become a net importer of oil, gas and coal, increasing vulnerability to price volatility and raising energy security concerns

#### The ASEAN challenge: Mobilizing power sector investment

Total cumulative power sector investment in Southeast Asia to 2040

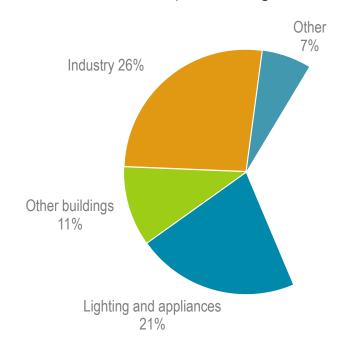


Southeast Asia needs power sector investment of \$1.25 trillion to 2040 – this is equivalent to around \$50 billion per year on average, twice the current level

### Energy efficiency: The case of air conditioning in ASEAN



Share of final electricity demand growth to 2040 in ASEAN countries



Air conditioners represent the largest source of electricity demand growth in ASEAN; Today, 15% of ASEAN households have air conditioners compared to 90% in Japan and the US, signaling significant scope for growth

#### **Concluding remarks**



- High oil prices are hurting consumers and could have adverse implications for producers
- The emergence of a competitive, global gas market with the rise of LNG provides opportunities for both importers and exporters in Southeast Asia
- Energy investment is a critical issue in Southeast Asia particularly in power due to demand growth, sustainability challenges and need for regional power integration
- Renewables & energy efficiency can help reduce air pollution, CO2 emissions and energy imports, but need best-practice policies for cost reductions and to accelerate deployment
- The IEA is assisting ASEAN members tackle energy challenges, drawing on the world's best energy data, an "All-Fuels-and-All-Technologies" approach and real-world policy solutions

