## Renewable Energy in Asia after Covid-19

**SIEW Energy Insights Webinar** 

Justin Wu

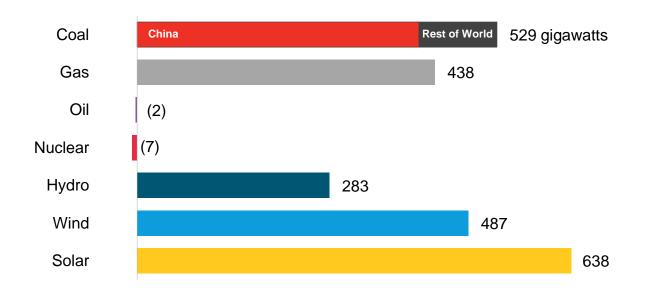
Head of Asia-Pacific, BloombergNEF

jwu166@bloomberg.net

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## More solar generation capacity was installed in the past decade than any other technology

Power generation capacity additions, 2009 – 19



Source: BloombergNEF

#### Clean energy technology costs have dropped dramatically in the past decade

#### Global levelized cost of energy benchmarks (\$/MWh, 2019 real)





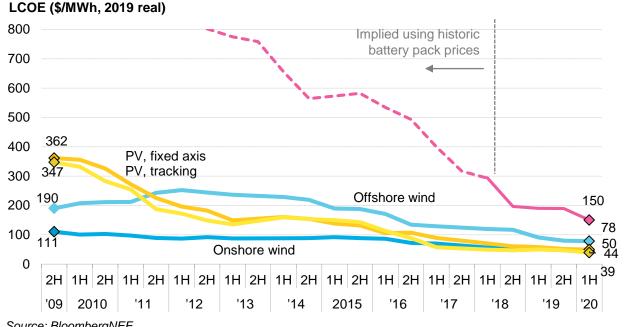
PV

18%

Li-ion battery packs

11%

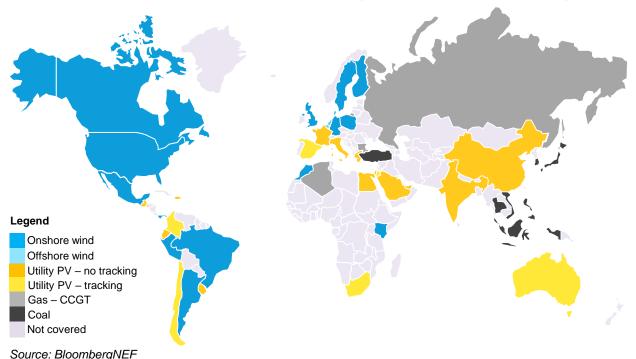
Onshore wind



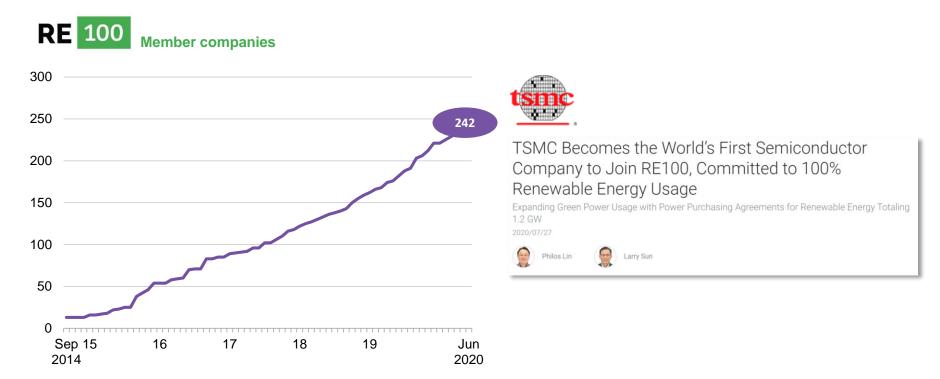
Source: BloombergNEF

## Wind and solar are the cheapest new generation for 2/3 of global population, 72% of GDP, and 85% of electricity demand

Lowest-cost source of new bulk power generation by technology, 2019



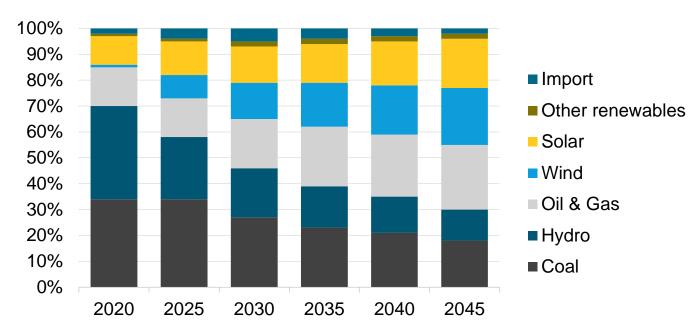
## Corporations are pledging to purchase more renewable energy for themselves and their supply chain



Source: BloombergNEF, RE100

### Vietnam's renewable energy goals have become more ambitious

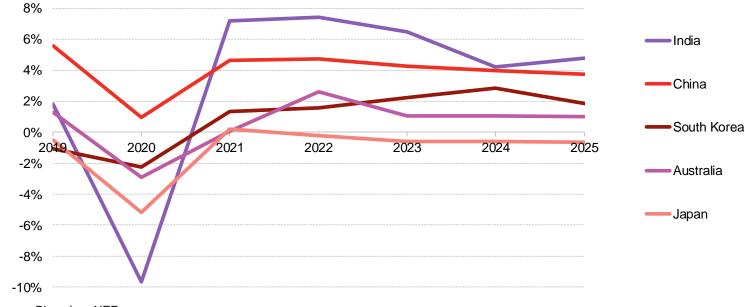
#### Vietnam's draft plan for electricity generation capacity mix



Source: Institute of Energy's draft Power Development Plan VIII

## The pandemic has impacted electricity demand across Asian countries in different ways

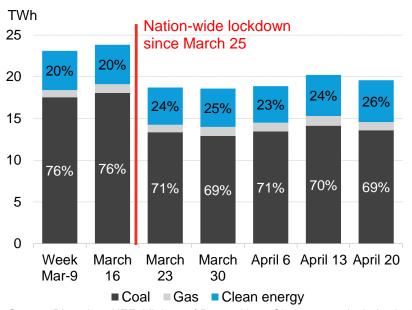
Annual electricity consumption growth across APAC countries in a multi-wave pandemic scenario



Source: BloombergNEF

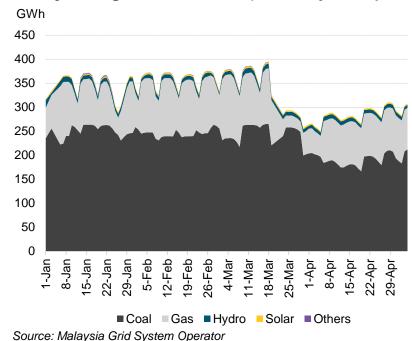
## Coal generation has fared poorly in India and Malaysia as power demand drops following a lockdown

#### India's generation fuel mix (Mar-May 2020)

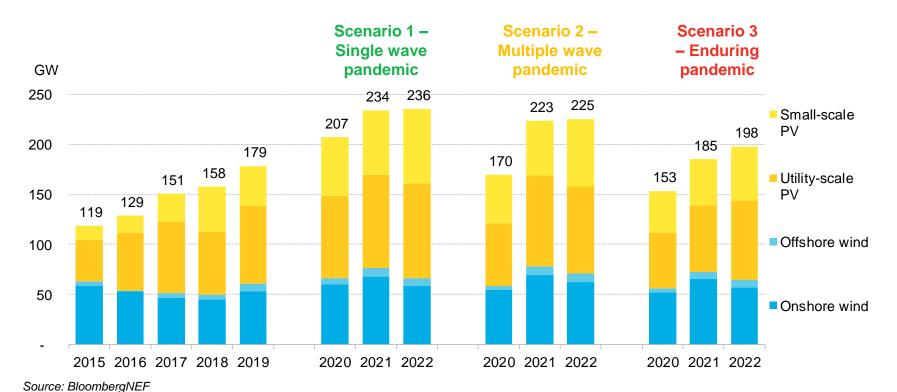


Source: BloombergNEF, Ministry of Power. Note: Clean energy includes hydro, biomass, solar and onshore wind. Findings are based on provisional data.

#### Malaysia's generation mix (Jan-May 2020)

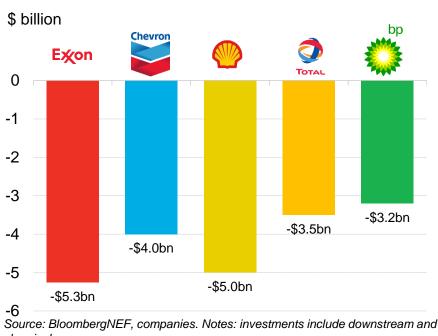


## Wind and solar installations could stall due to Covid-19, but will recover quickly from 2021



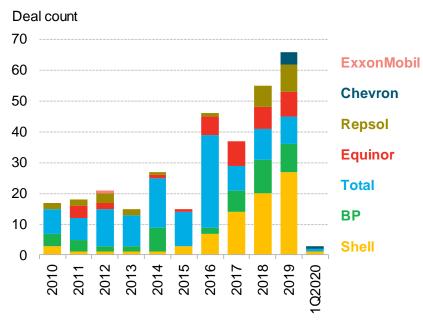
#### The Covid-19 pandemic is depressing oil company appetites for clean energy

#### **Announced cuts in 2020 capital expenditures**



#### chemicals

#### Completed clean energy deals by oil majors



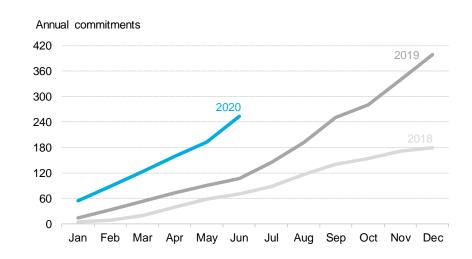
Source: BloombergNEF, Bloomberg, CBInsights, corporate announcements

## Corporate sustainability pledges remain strong as companies think about long-term goals

#### **Annual RE100 commitments**

# Cumulative commitments 70 60 2019 50 40 2018 30 20 10 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

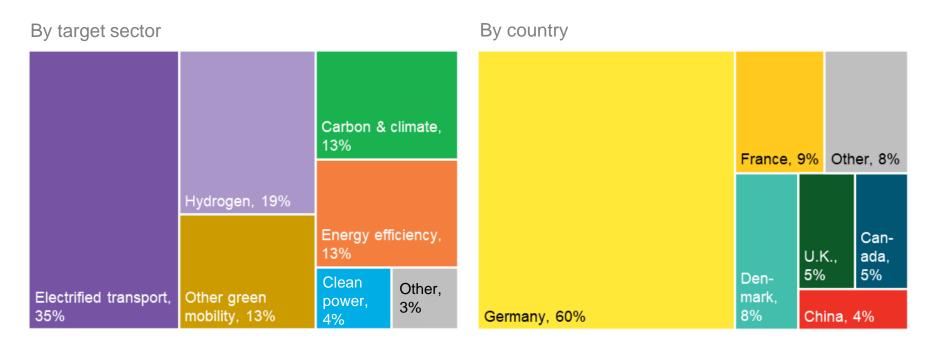
#### **Annual science-based targets commitments**



Source: BloombergNEF, RE100

Source: BloombergNEF, SBT

## \$54 billion in green stimulus announced to date, but most have focused on the auto sector



Source: BloombergNEF. Note: Figures exclude potential EU green stimulus as it has yet to be officially approved. Where support for a green sector is announced in a pot with a few other areas, figure assumes that whole sum is split evenly among the targeted sectors

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Justin Wu

jwu166@bloomberg.net

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