Renewable Energy in Asia after Covid-19

SIEW Energy Insights Webinar

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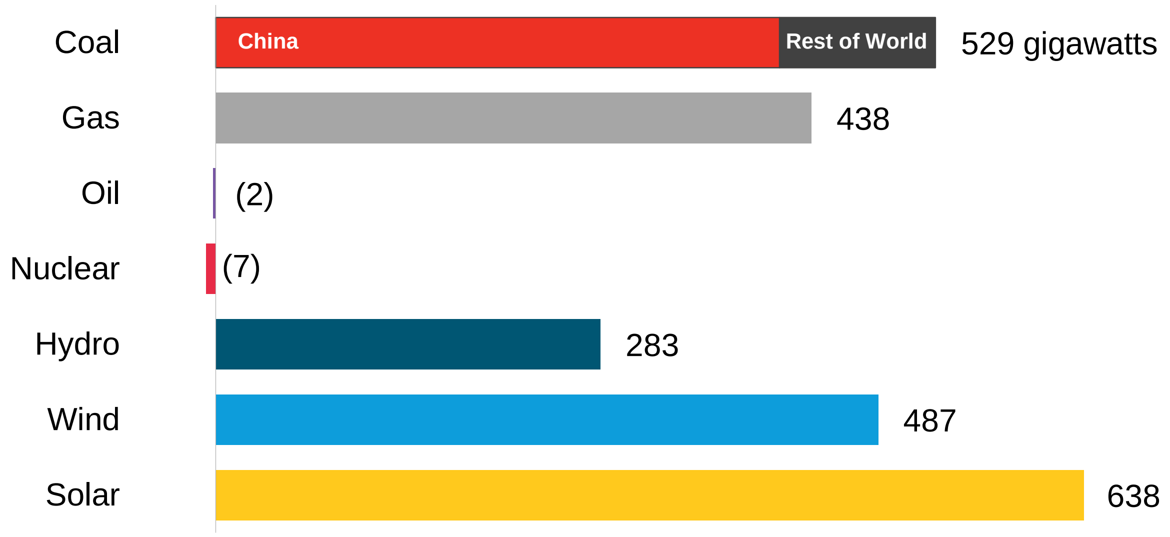
BloombergNEF

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

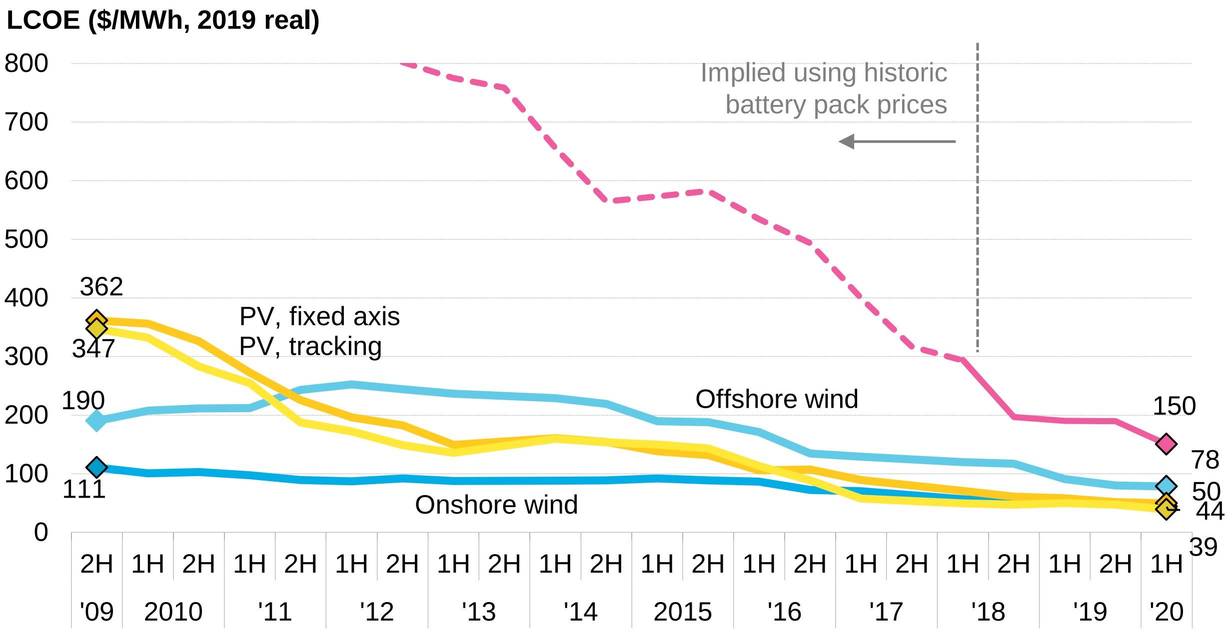
Power generation capacity additions, 2009 – 19



Source: BloombergNEF

Clean energy technology costs have dropped dramatically in the past decade

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



Learning rates

28%
PV

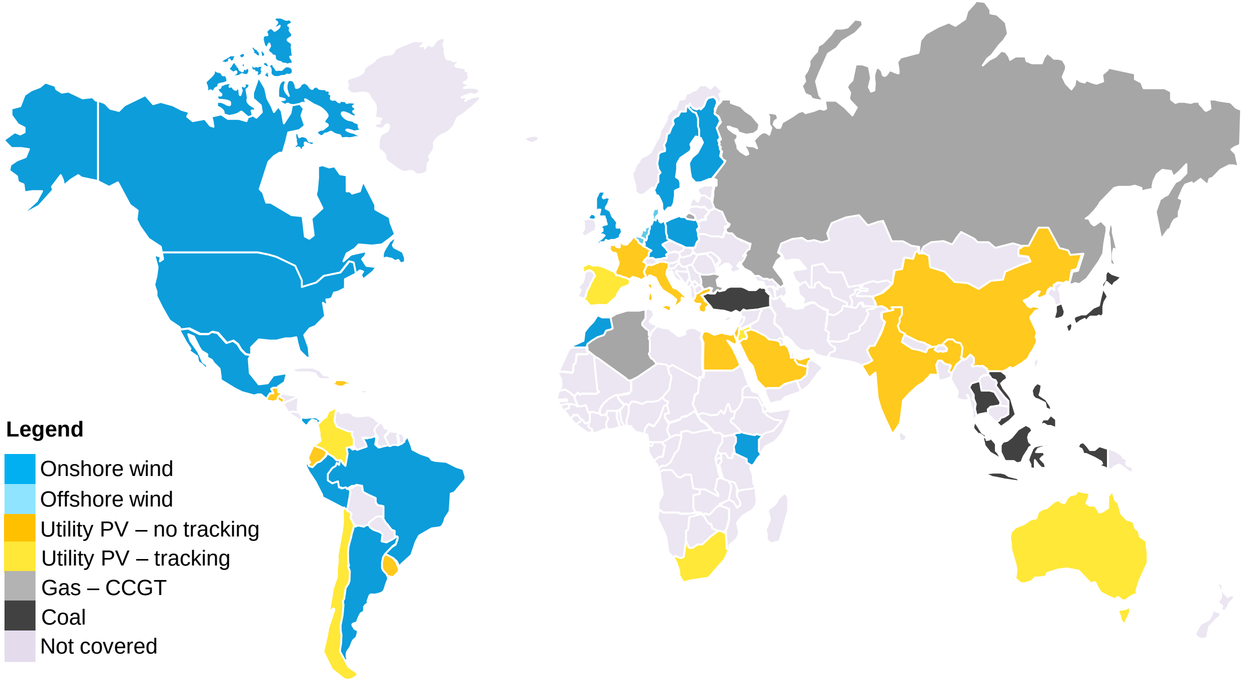
18%
Li-ion battery packs

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

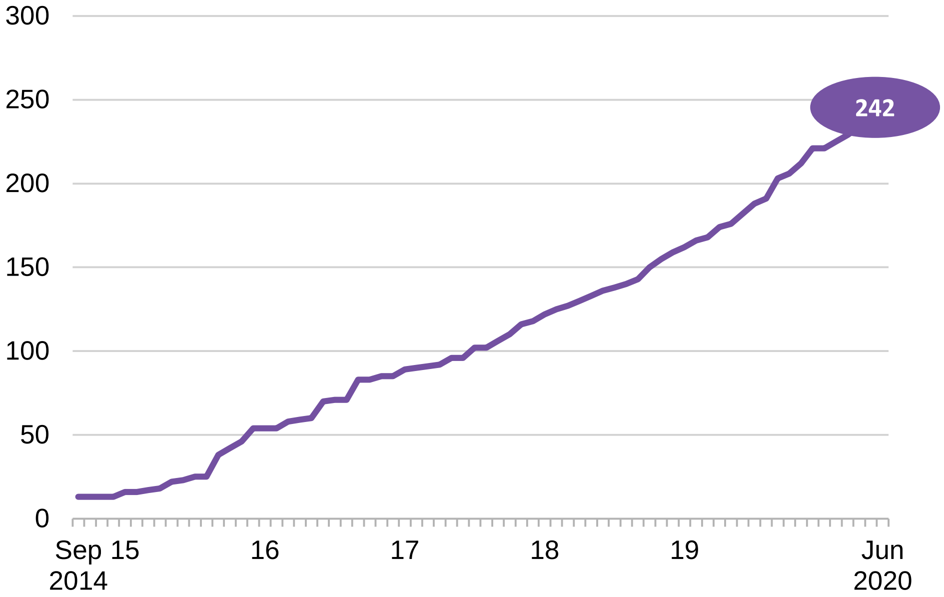
Lowest-cost source of new bulk power generation by technology, 2019

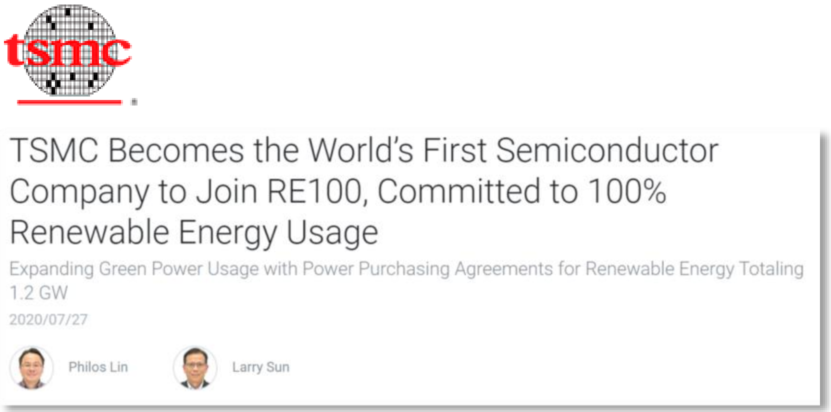


Source: BloombergNEF

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

RE 100 **Member companies**





TSMC Becomes the World's First Semiconductor Company to Join RE100, Committed to 100% Renewable Energy Usage

Expanding Green Power Usage with Power Purchasing Agreements for Renewable Energy Totaling 1.2 GW

2020/07/27

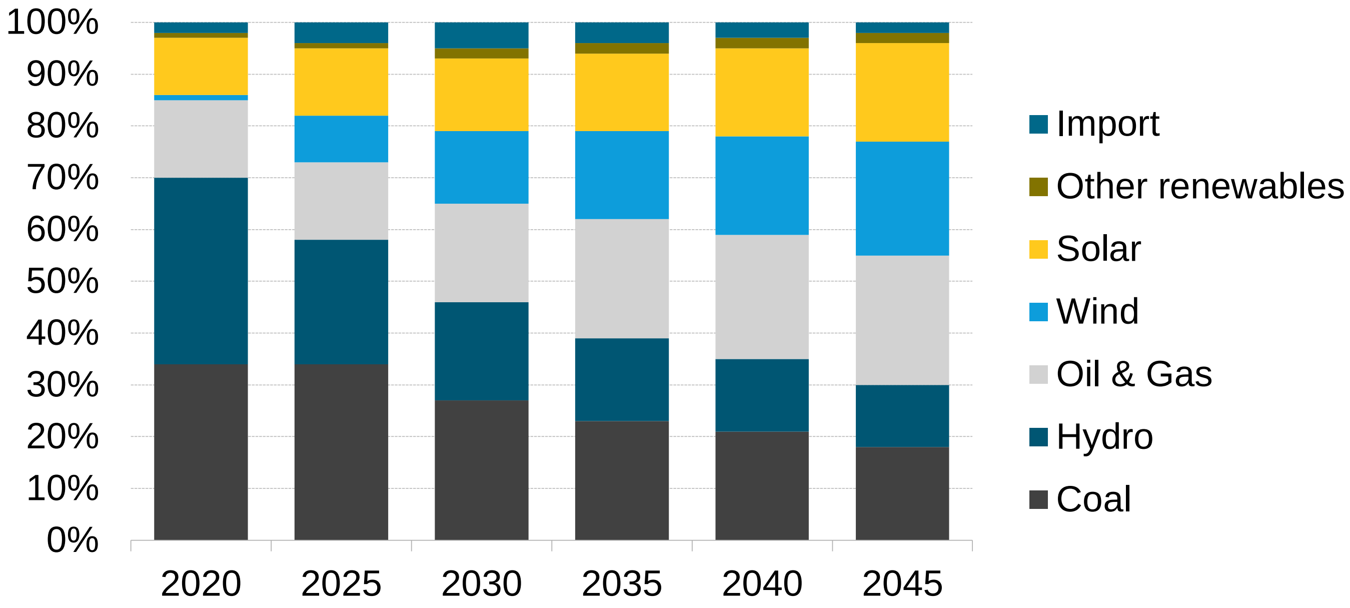
Philos Lin

Larry Sun

Source: BloombergNEF, RE100

Vietnam's renewable energy goals have become more ambitious

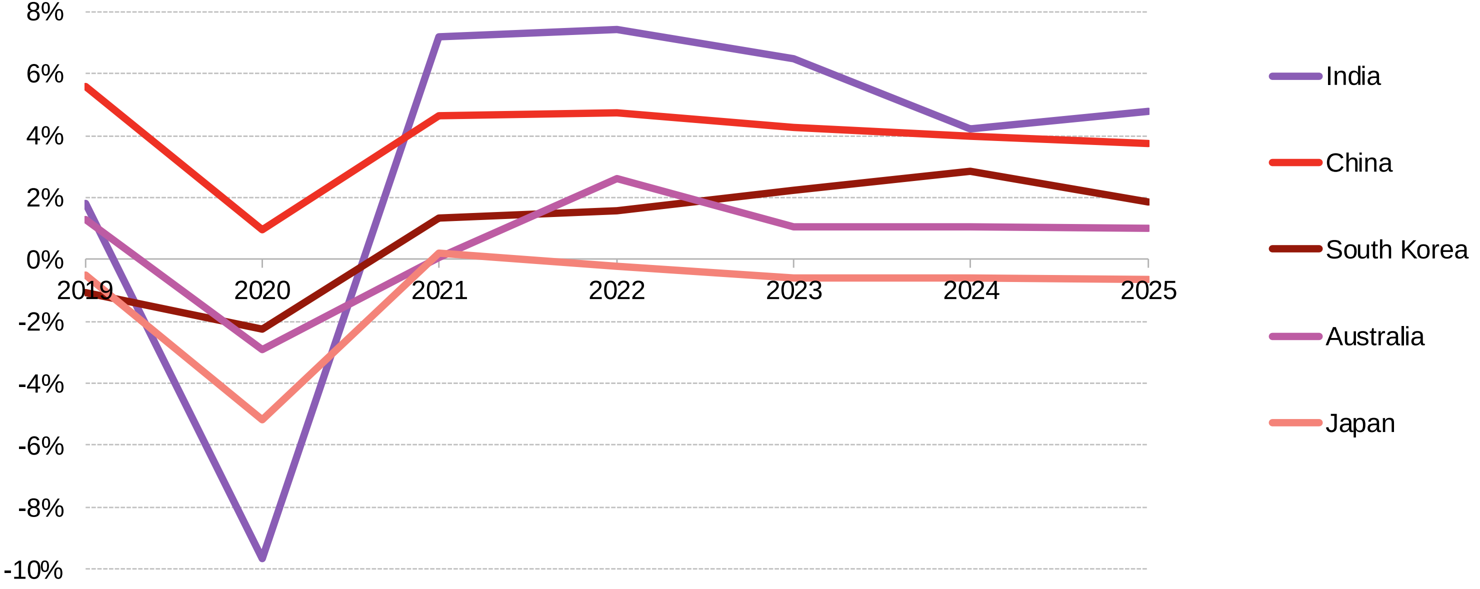
Vietnam's draft plan for electricity generation capacity mix



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

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

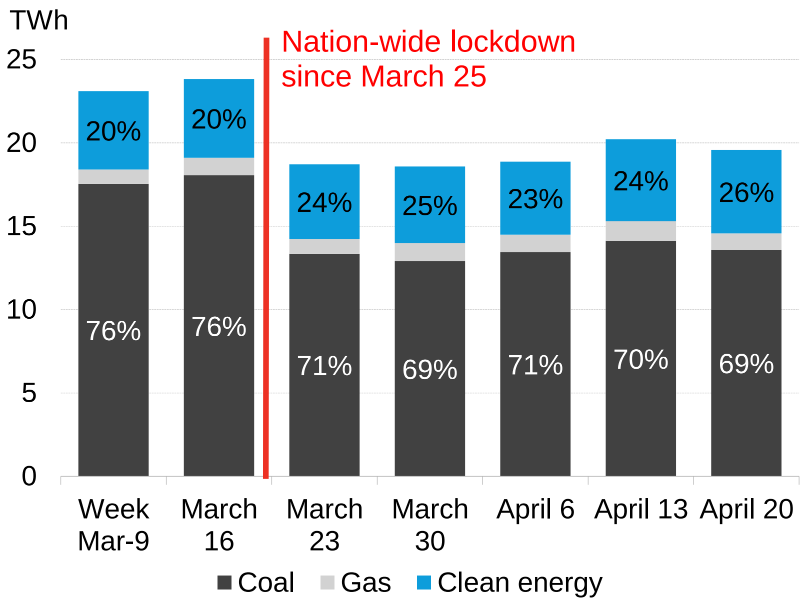
Annual electricity consumption growth across APAC countries in a multi-wave pandemic scenario



Source: BloombergNEF

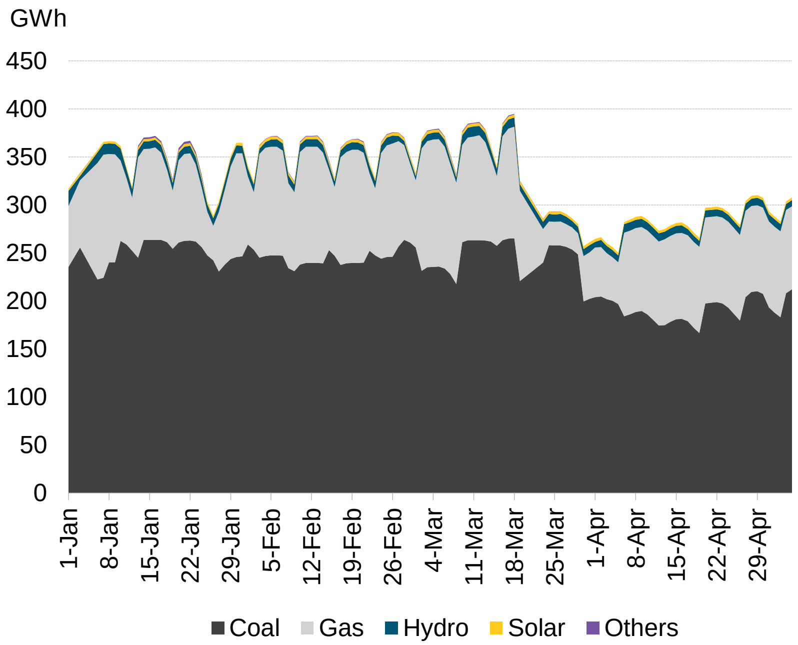
Coal generation has fared poorly in India and Malaysia as power demand drops following a lockdown

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)



Source: Malaysia Grid System Operator

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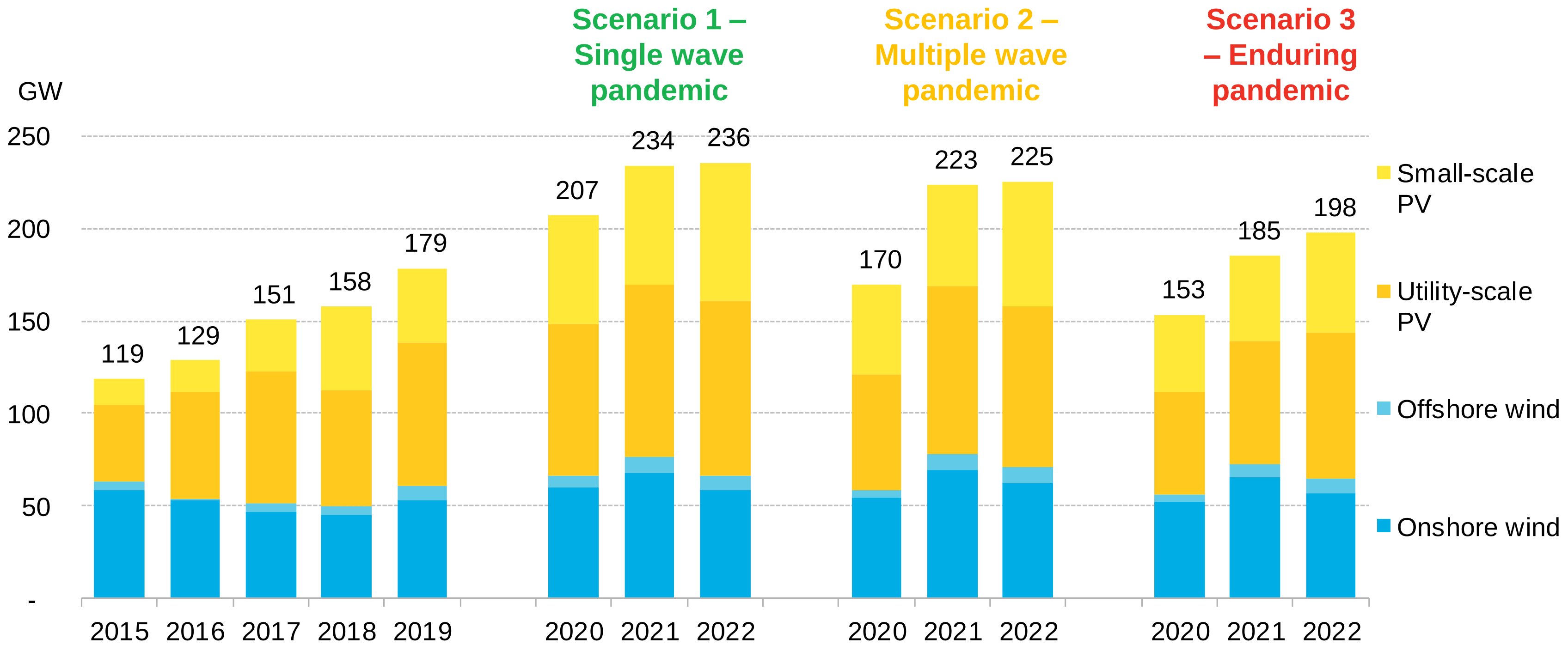
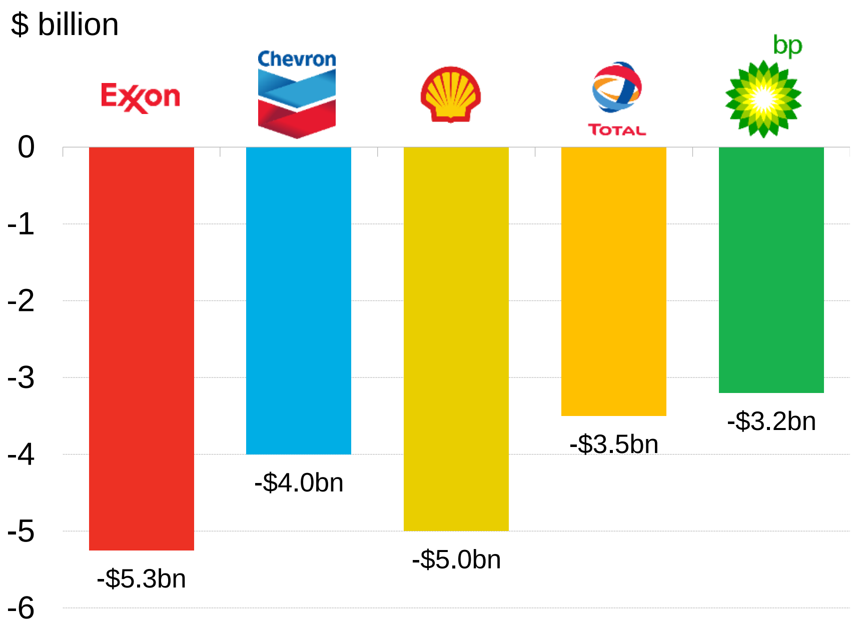
Wind and solar installations could stall due to Covid-19, but will recover quickly from 2021



Source: BloombergNEF

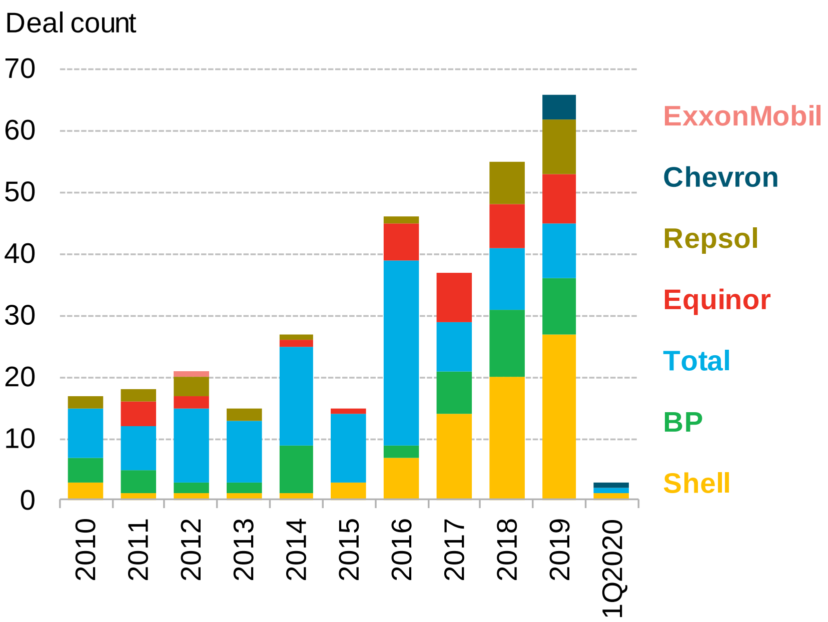
The Covid-19 pandemic is depressing oil company appetites for clean energy

Announced cuts in 2020 capital expenditures



Source: BloombergNEF, companies. Notes: investments include downstream and chemicals

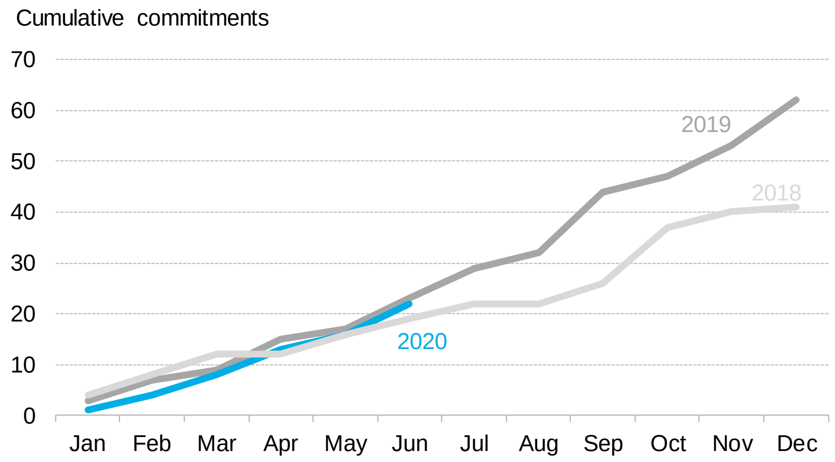
Completed clean energy deals by oil majors



Source: BloombergNEF, Bloomberg, CBInsights, corporate announcements

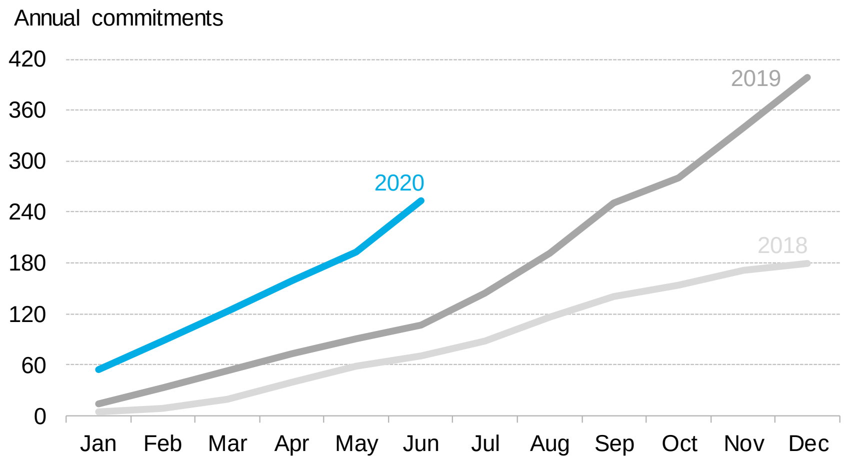
Corporate sustainability pledges remain strong as companies think about long-term goals

Annual RE100 commitments



Source: BloombergNEF, RE100

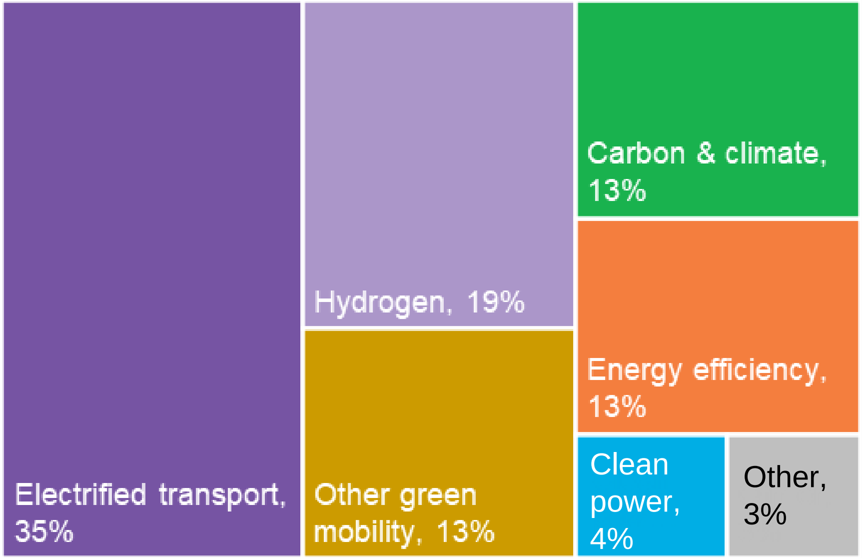
Annual science-based targets commitments



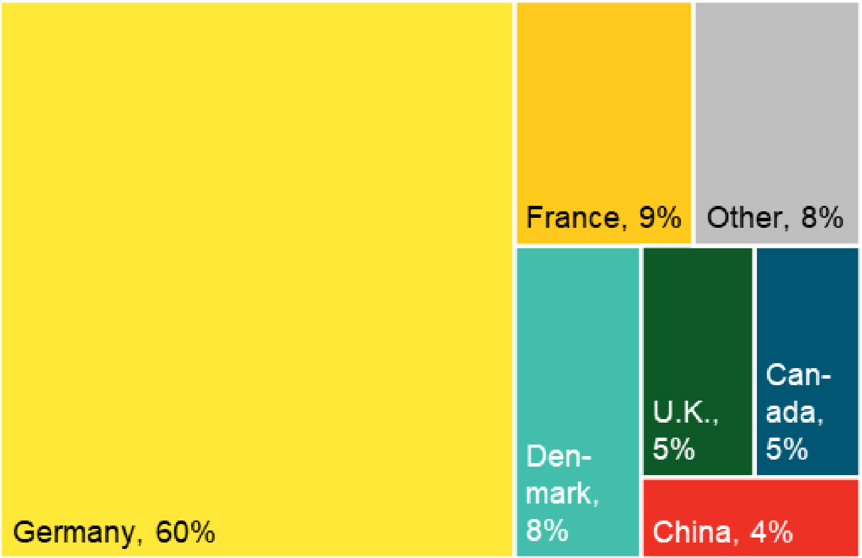
Source: BloombergNEF, SBT

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

By target sector



By country



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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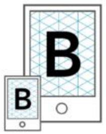

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