

# Financing Energy Efficiency & Clean Energy

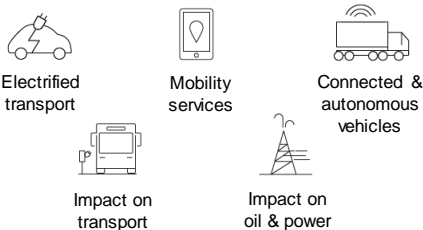
G20 Financing Energy Efficiency, Innovation  
and Clean Technology Summit

Miho Kurosaki

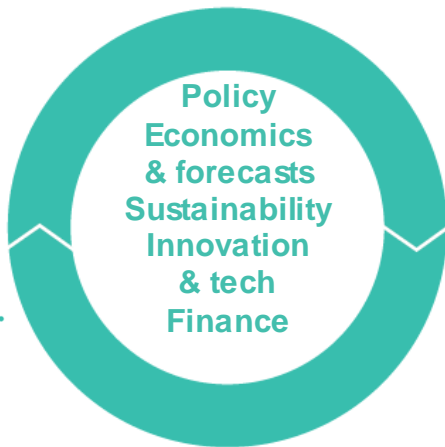
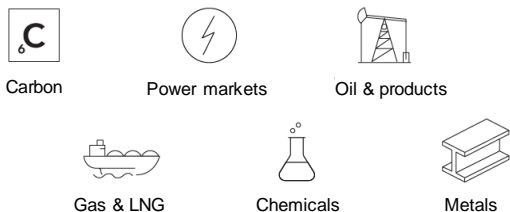
June 12, 2019

# BNEF: strategies for a cleaner future

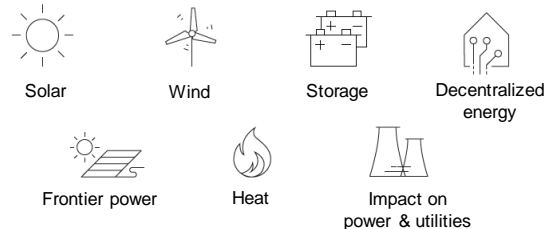
## Advanced transport



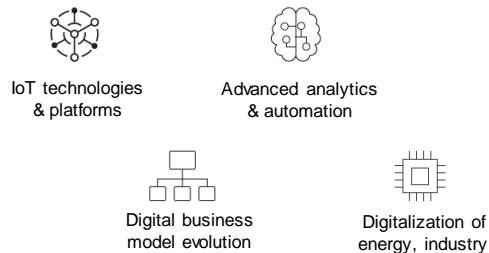
## Commodities



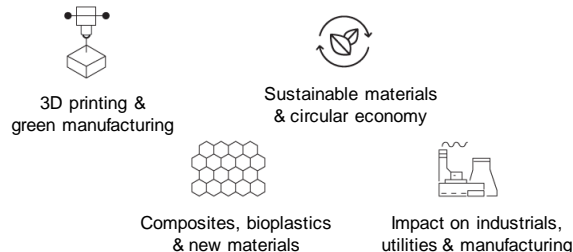
## Clean energy



## Digital industry

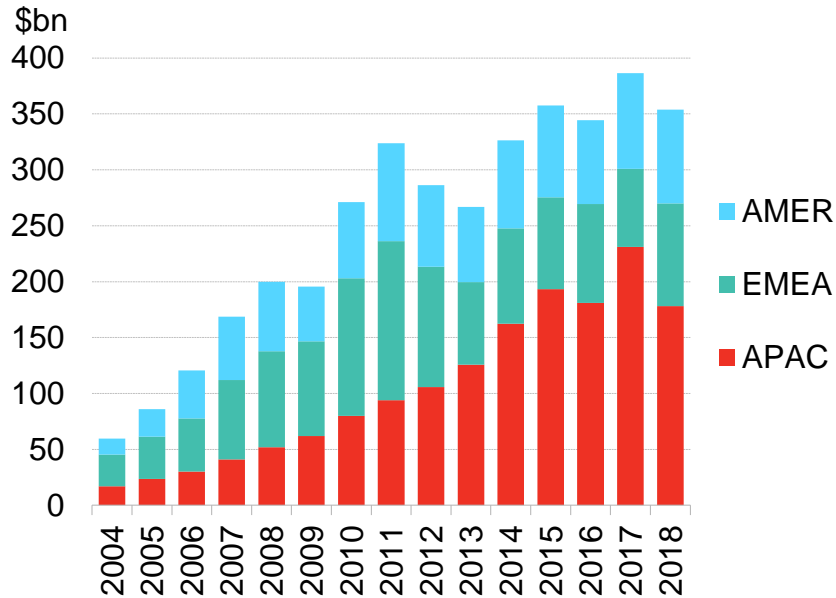


## Advanced materials

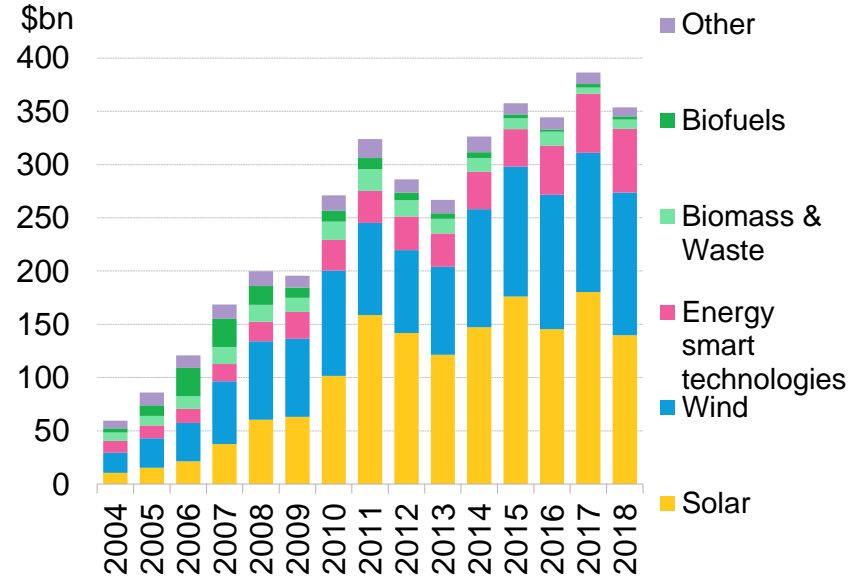


Source: BloombergNEF

# Clean energy investment grows



Source: BloombergNEF

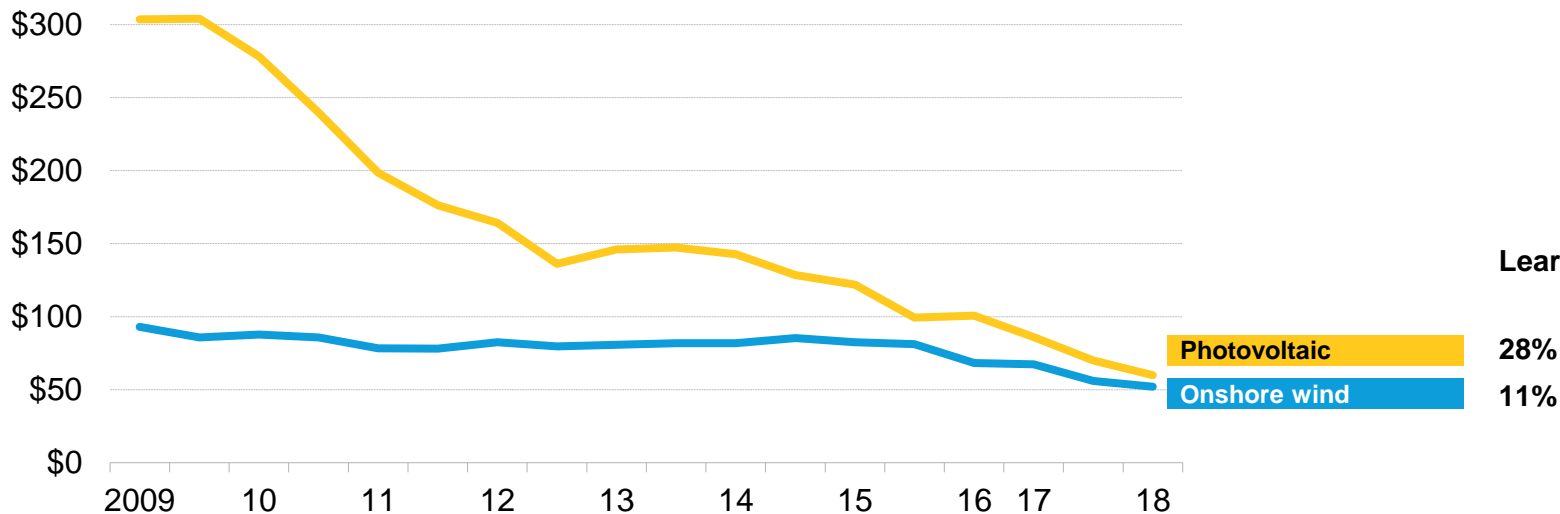


Source: BloombergNEF

# Wind and solar generation costs are falling significantly

## Levelised cost of energy

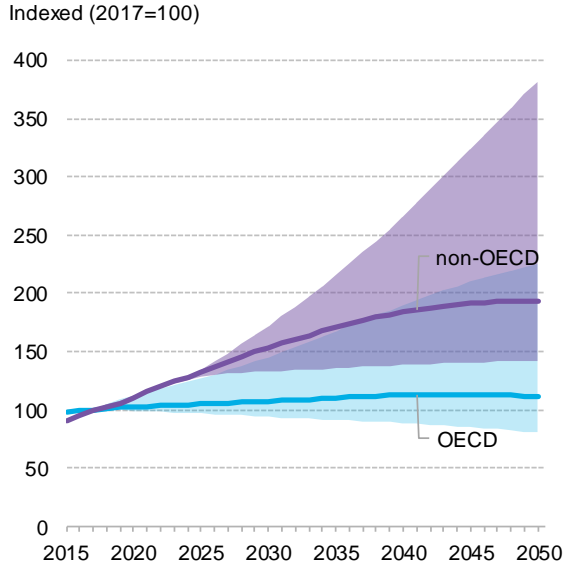
\$350 dollars per megawatt-hour



Source: BloombergNEF. Note: Nominal dollars.

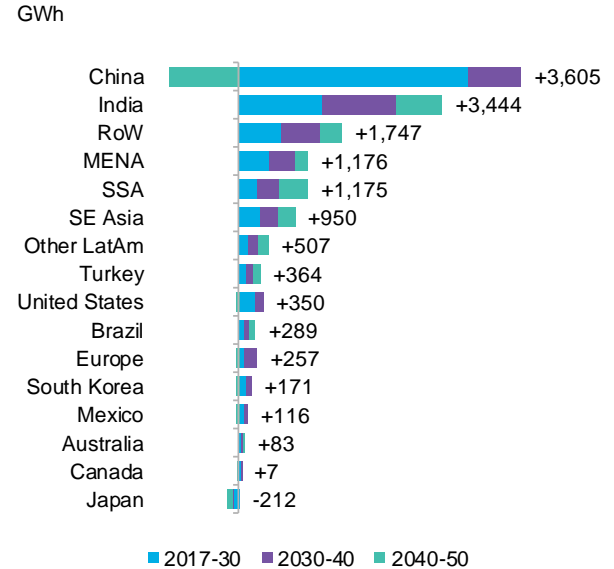
# Global power demand is growing

## Power demand grows in non-OECD countries



Source: BloombergNEF

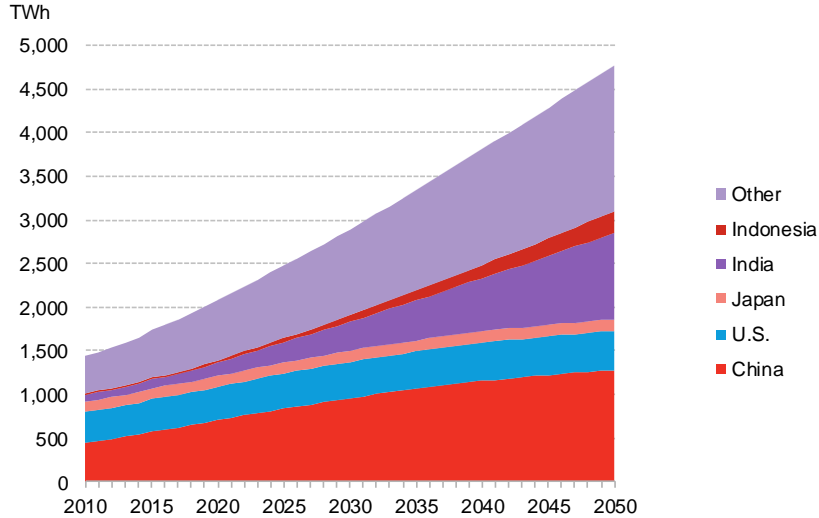
## Power demand by country



Source: BloombergNEF

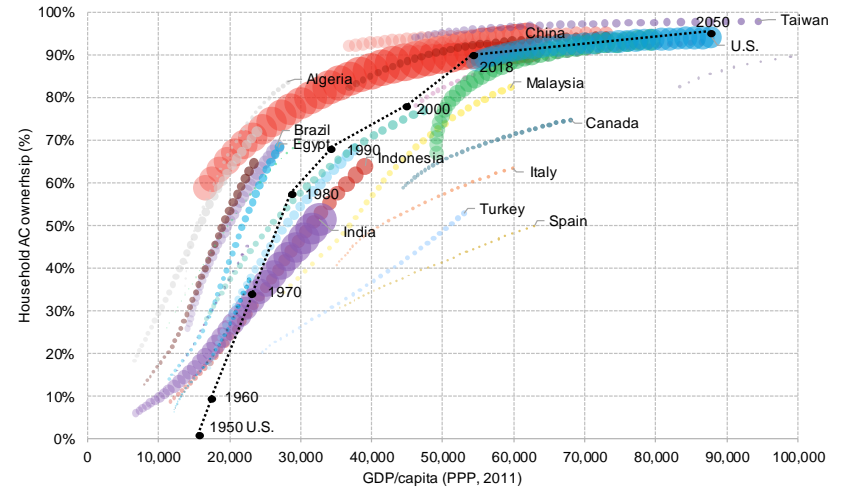
# AC demand is increasing too

## AC demand will be 13% of total electricity demand in 2050



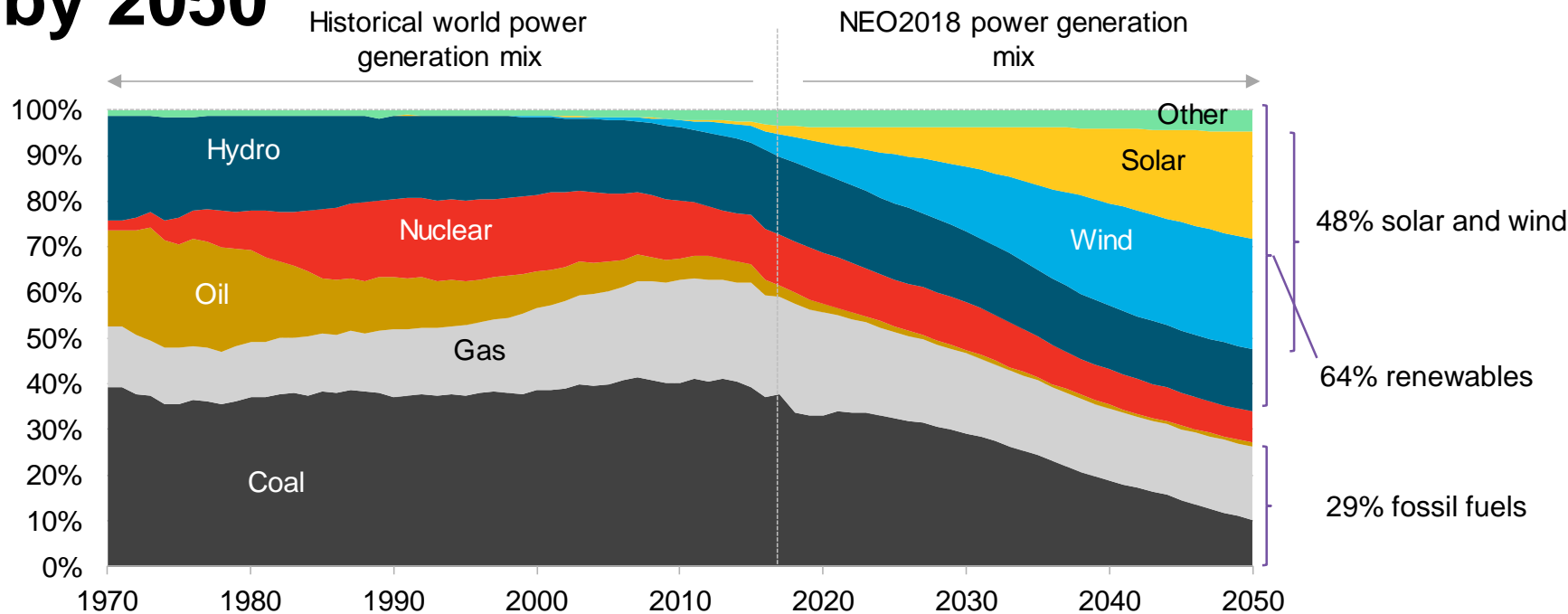
Source: BloombergNEF

## AC ownership grows as GDP/capita rises



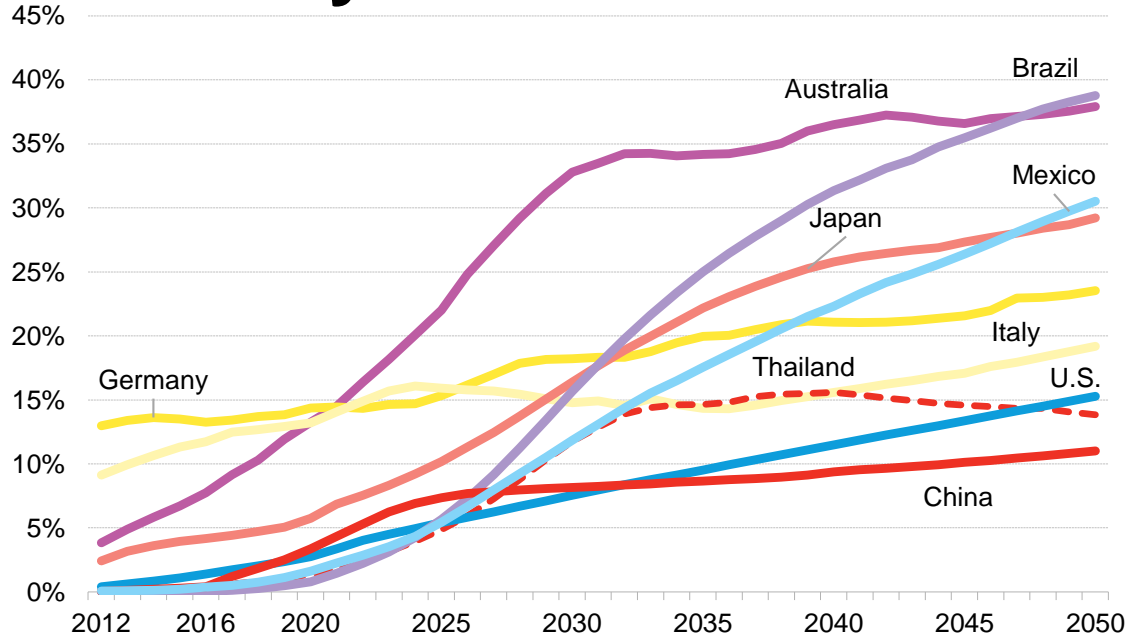
Source: BloombergNEF

# Wind and solar will be half by 2050



Source: BloombergNEF New Energy Outlook 2018, IEA

# 1/3 will have rooftop PV in Brazil, Australia by 2050

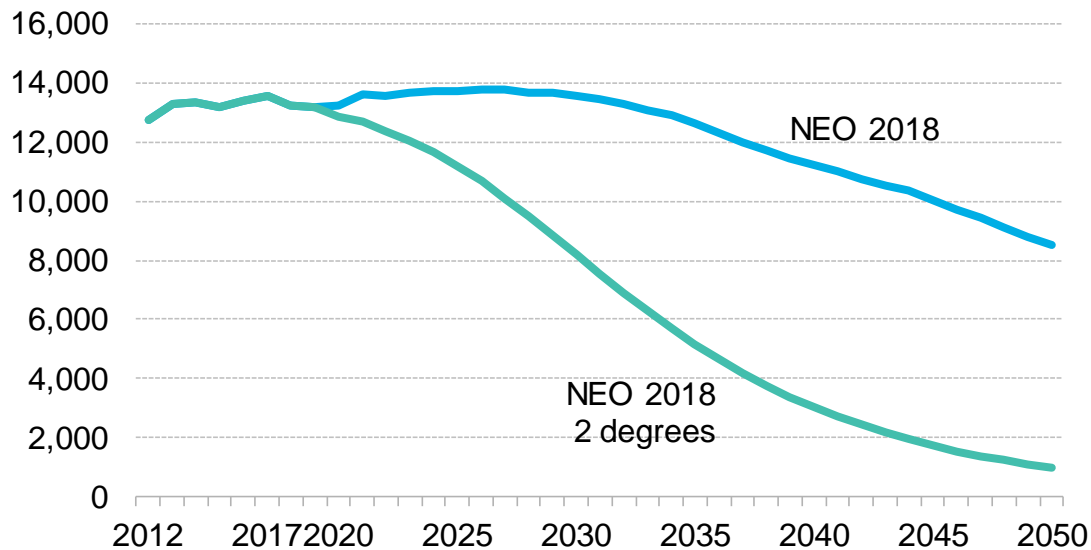


Source: BloombergNEF



# Emissions peak in 2027 but will not reach 2 degree pathway

Global power sector CO2 emissions (MtCO2)



Source: BloombergNEF

# The world's biggest asset manager sees sustainable investing as “a core component”

BLACKROCK

**\$6.52 trillion**

Assets under management 1Q 2019

“

Sustainable investing will be a core component for how everyone invests in the future.

We are only at the early stages.

Larry Fink  
Chairman and Chief Executive  
October 2018

Ethical and responsible investment [+ Add to myFT](#)

## BlackRock stakes claim on ‘sustainable investing’ revolution

Fink forecasts such ETF assets will rise from \$25bn to over \$400bn in a decade



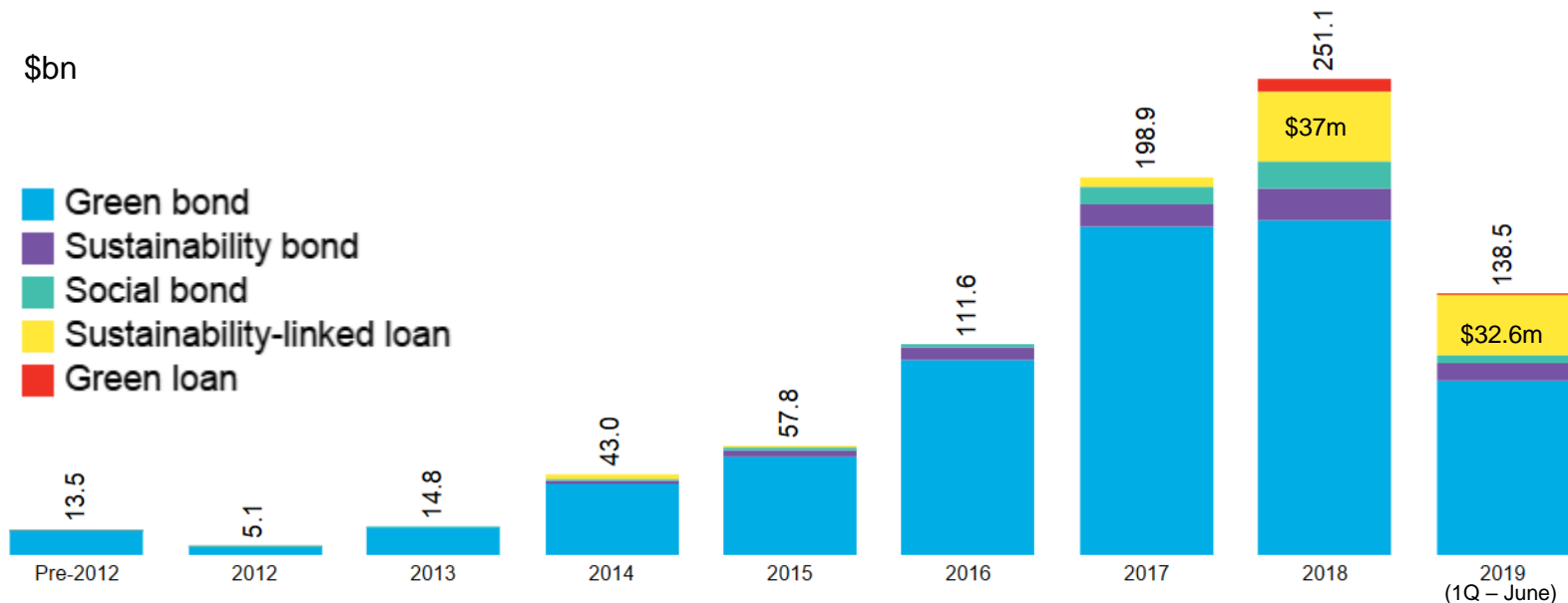
Larry Fink: “We are going to see evidence over the long term that sustainable investing is going to be at least equivalent to core investments. I believe personally it will be higher” © FT montage; Bloomberg

Peter Smith in London OCTOBER 22, 2018

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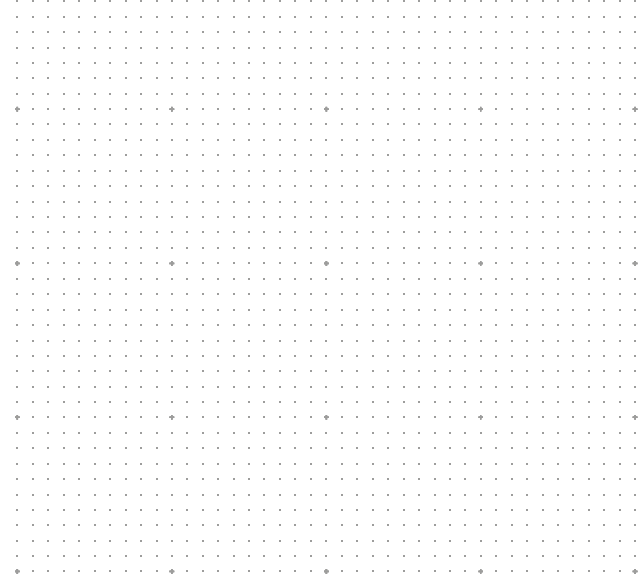
Source: *Financial Times* [link](#)

# Sustainable debt finance has been growing



Source: BloombergNEF. Available through our **Sustainable Debt Tool** ([web](#) | [terminal](#)). Note: as of June 3, 2019

# Questions to consider



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- What are the case studies to demonstrate innovative financing solutions in the area of energy efficiency and clean energy?

# Questions to consider

- To scale up, how can we apply these case studies to other countries and industries?
- How can we increase investments into energy efficiency and clean energy? – motivations, benefits, drivers and risks

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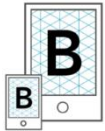
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