

The Energy Transition in Emerging Markets

Select insights

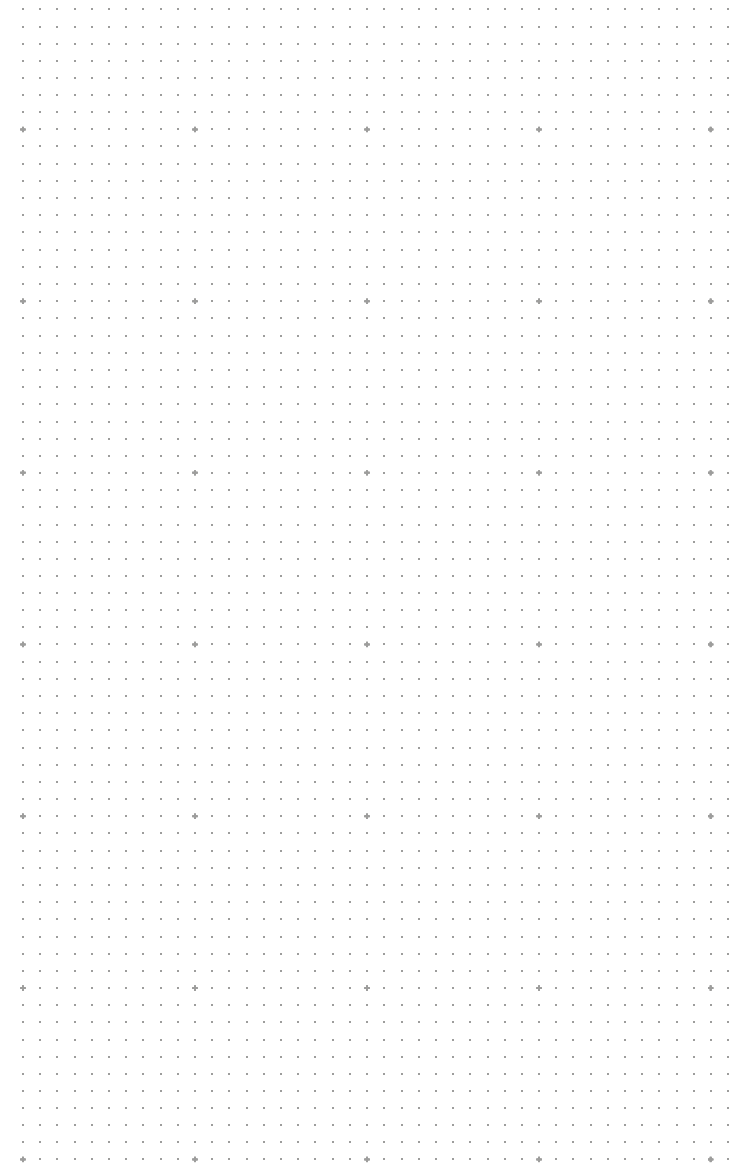
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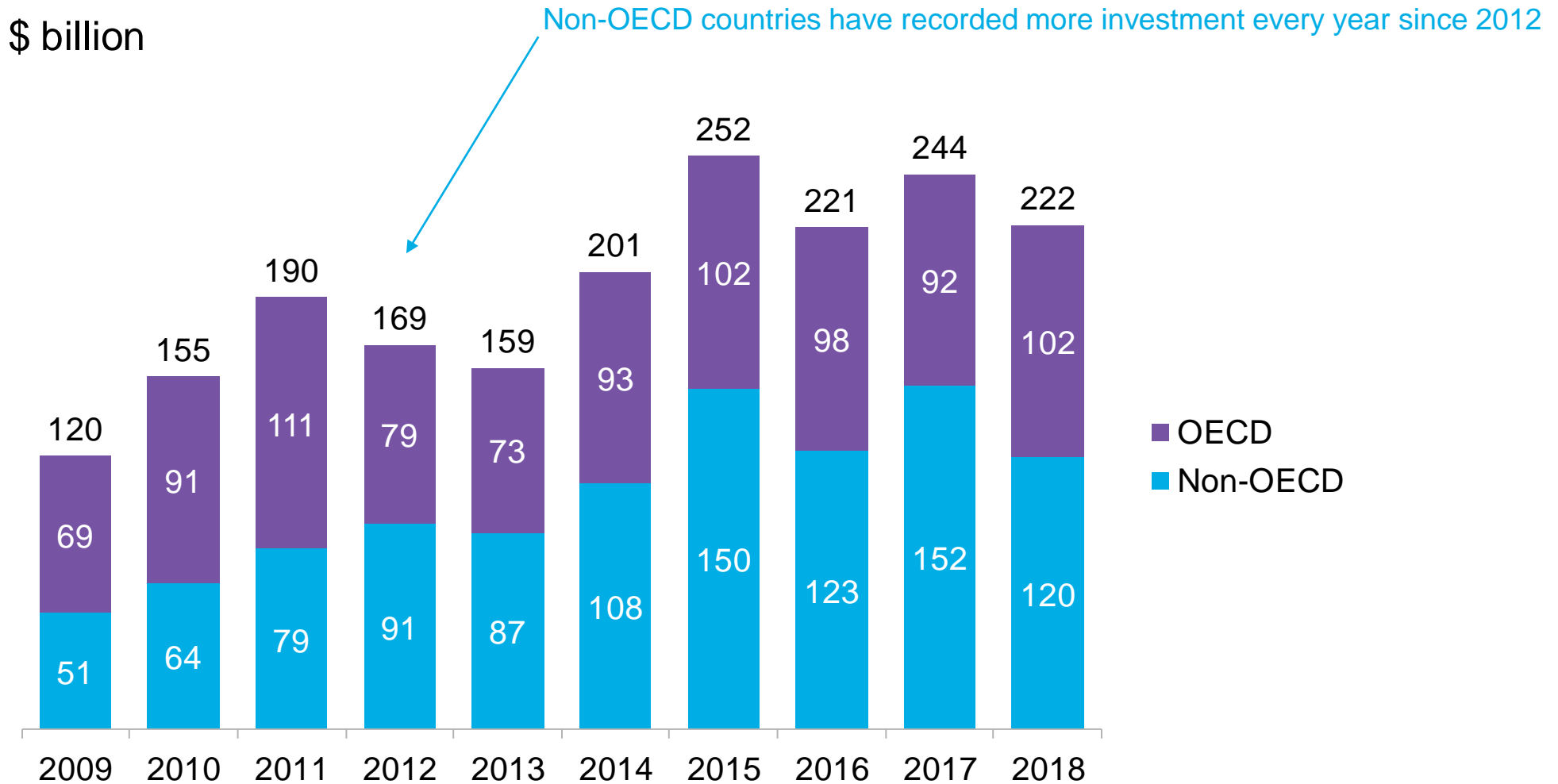


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Investment



OECD vs non-OECD clean energy new asset finance

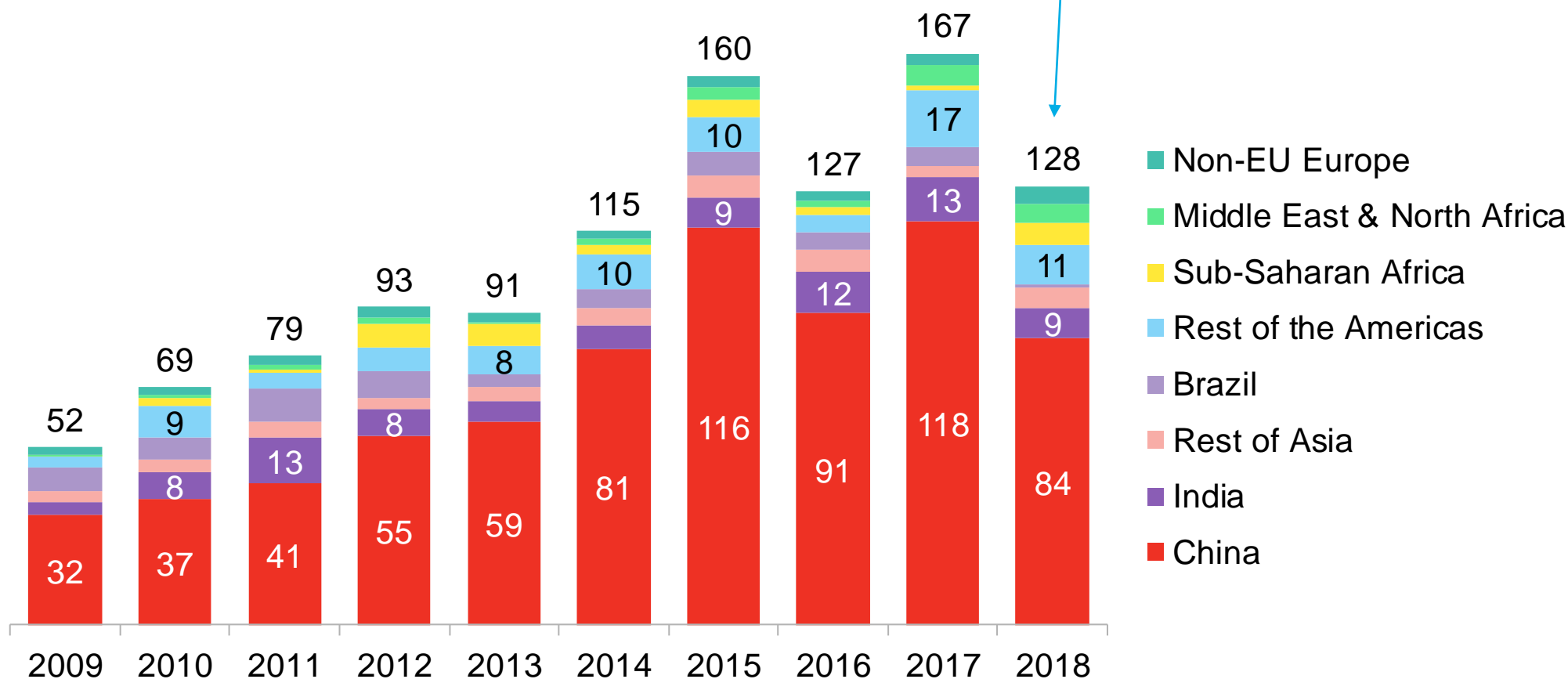


Source: BloombergNEF

Emerging market clean energy new asset finance

\$ billion

China's slowdown is compensated by more investment in other regions

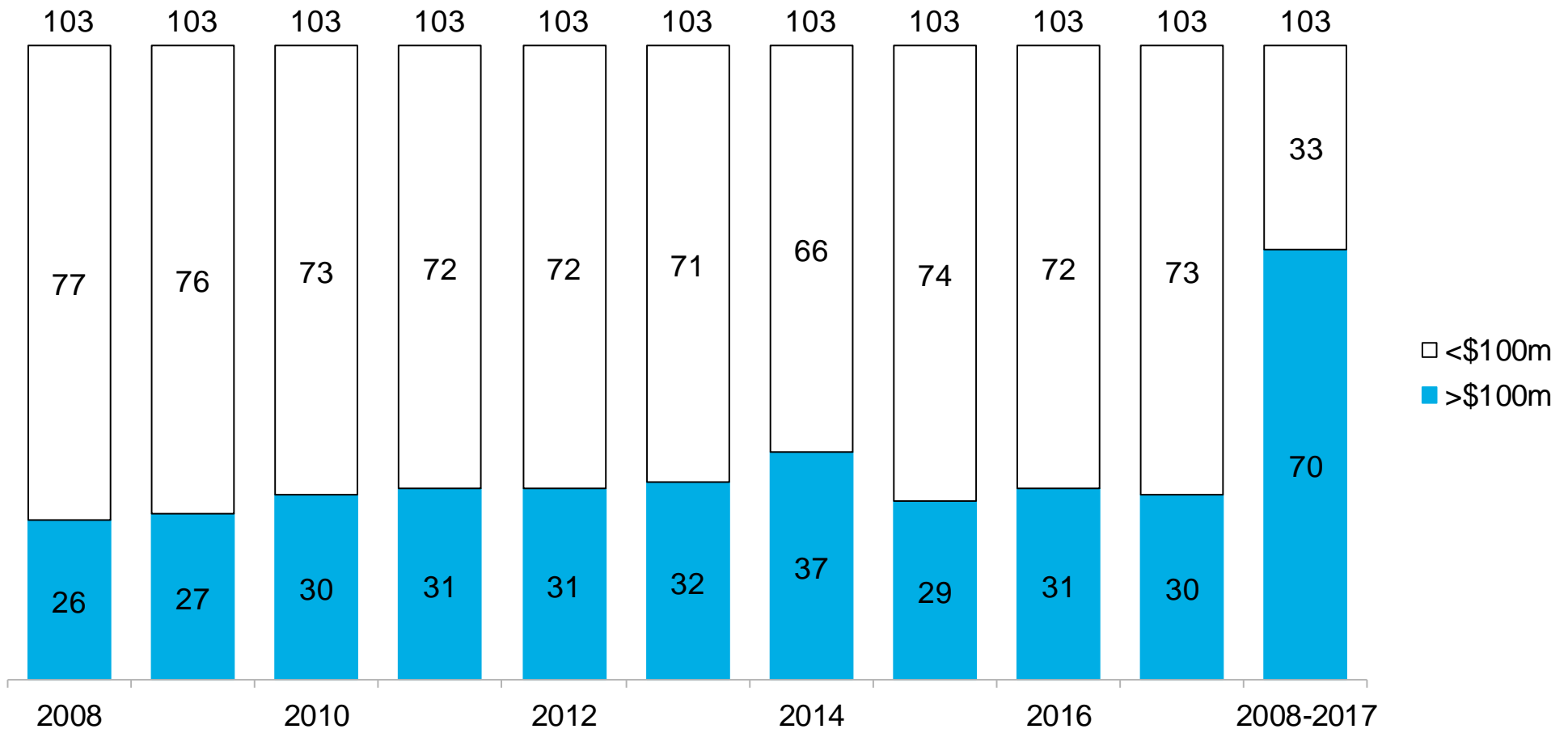


Source: BloombergNEF. Note: Includes non-OECD nations, plus Chile, Mexico and Turkey.

Number of countries recording more than \$100 million in clean energy asset finance

Emerging market investment remains too low and too concentrated

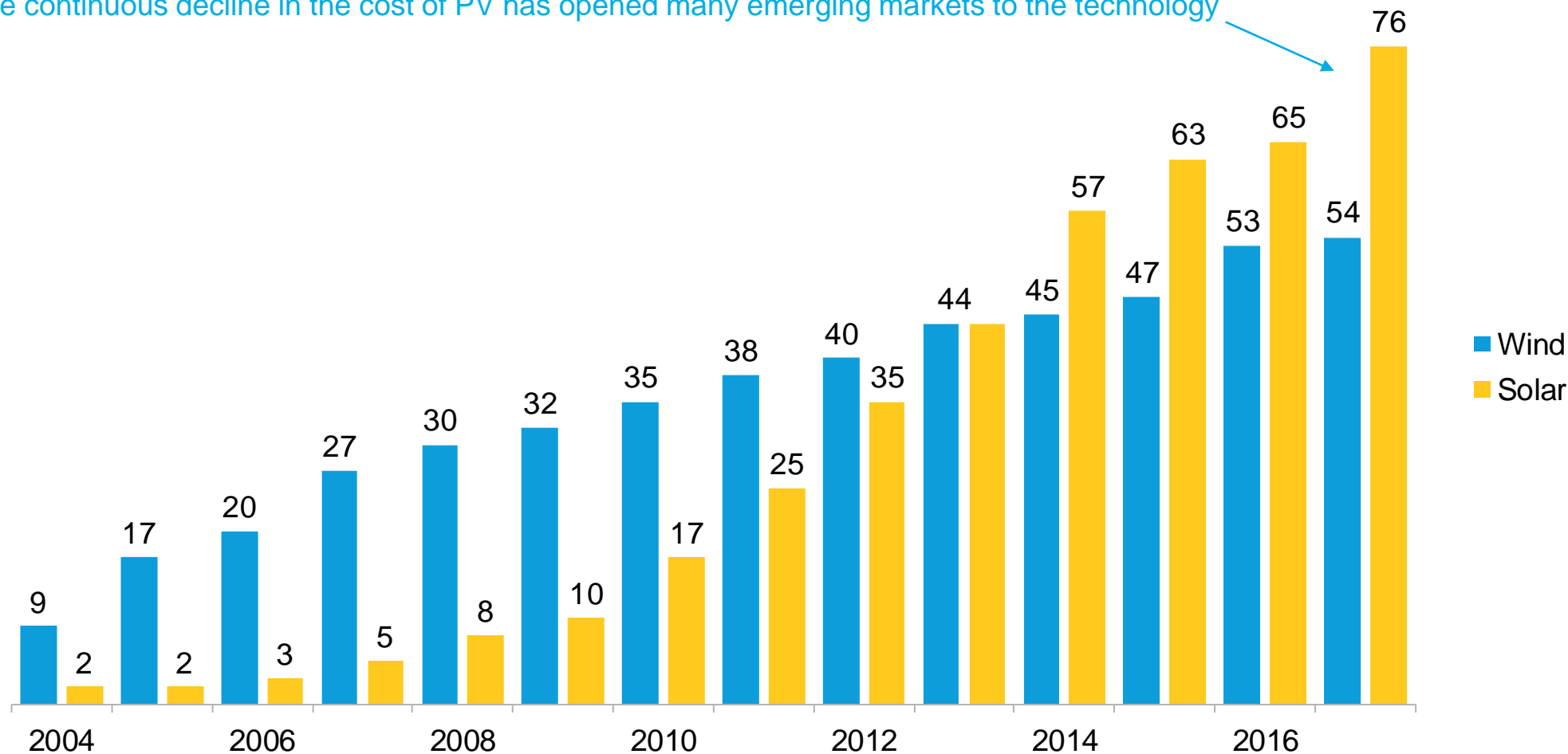
Number of countries



Source: BloombergNEF. Note: Includes 100 non-OECD nations, plus Chile, Mexico and Turkey.

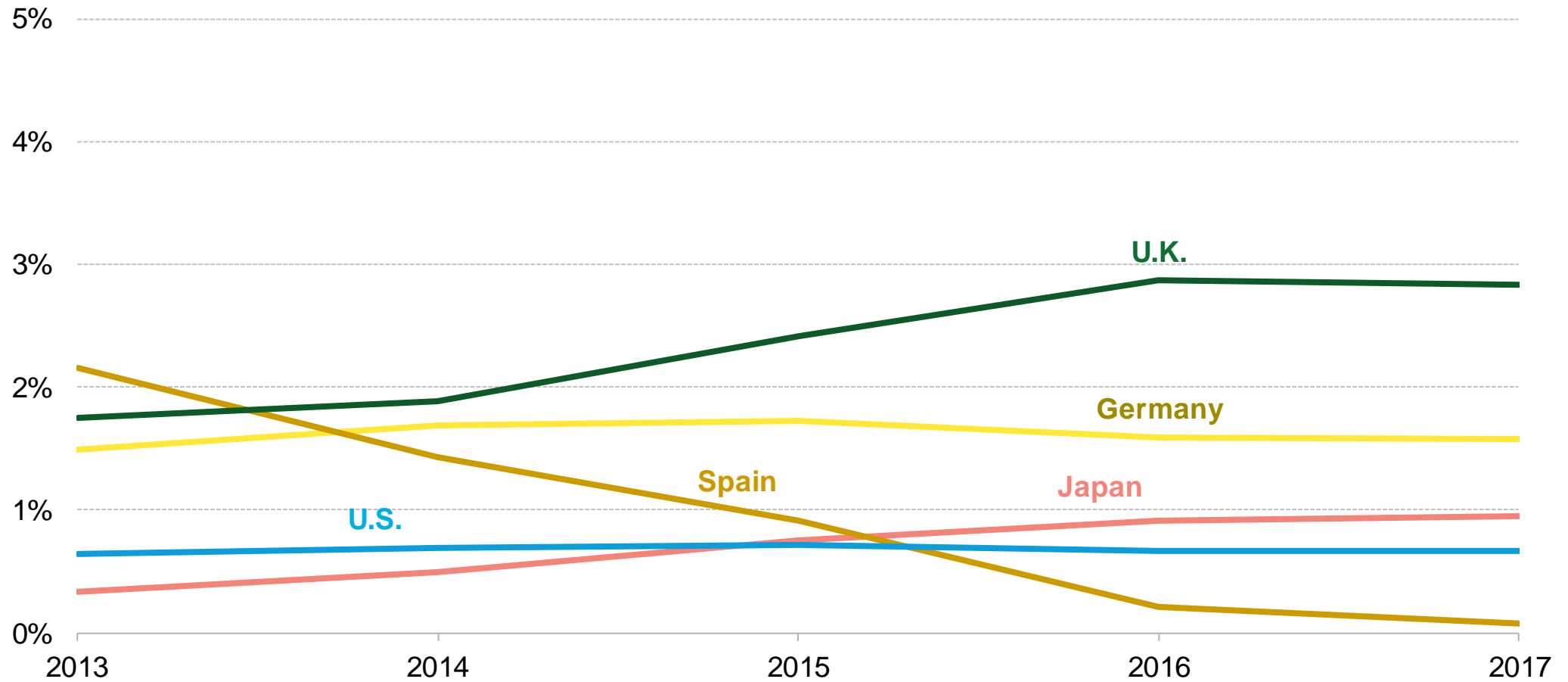
Number of developing nations with at least one utility-scale solar/wind clean energy financing, 2004-2017

The continuous decline in the cost of PV has opened many emerging markets to the technology



Source: BloombergNEF. Note: utility scale projects are typically larger than 1.5MW. Includes 103 non-OECD nations, plus Chile, Mexico and Turkey.

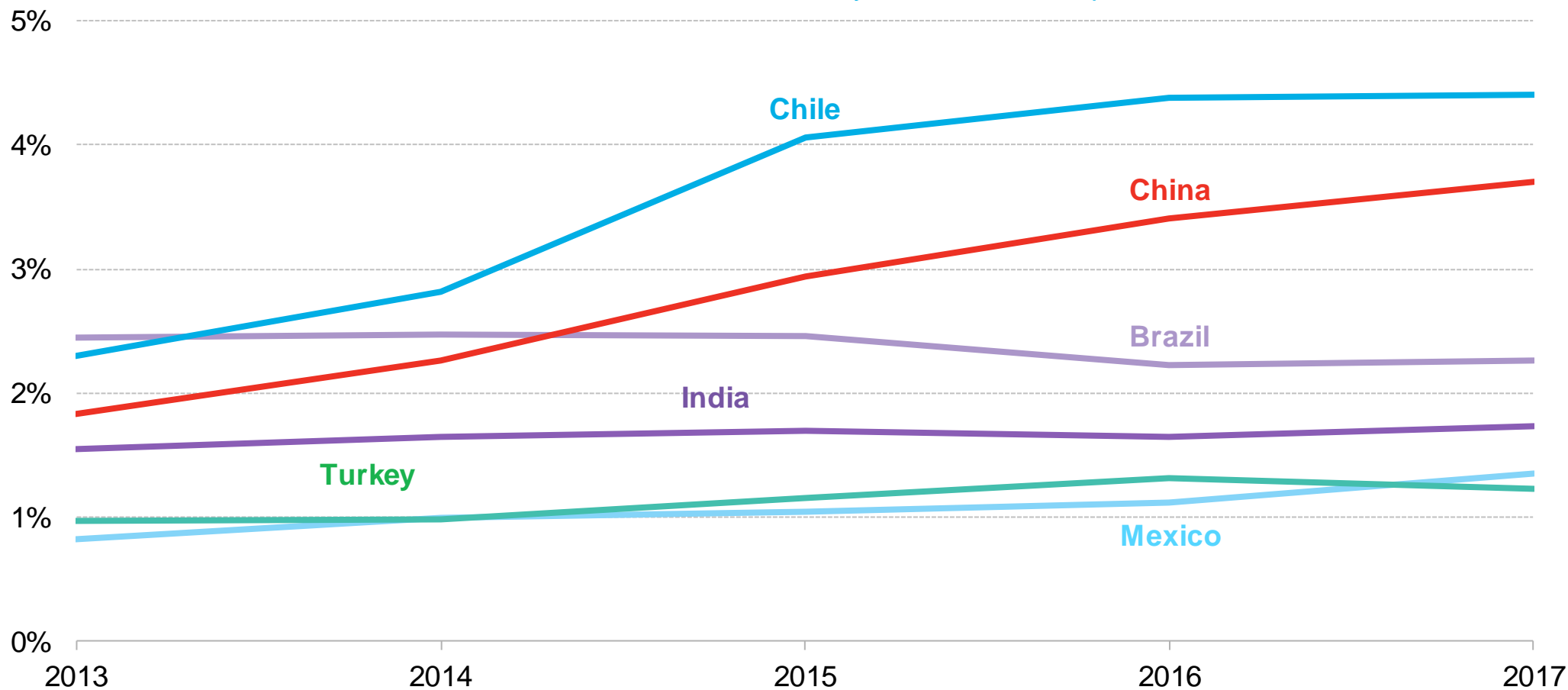
Five-year clean energy asset finance as a share of 2017 GDP in major OECD nations



Source: BloombergNEF. Note: nominal yearly investment figures used against 2017 GDP.

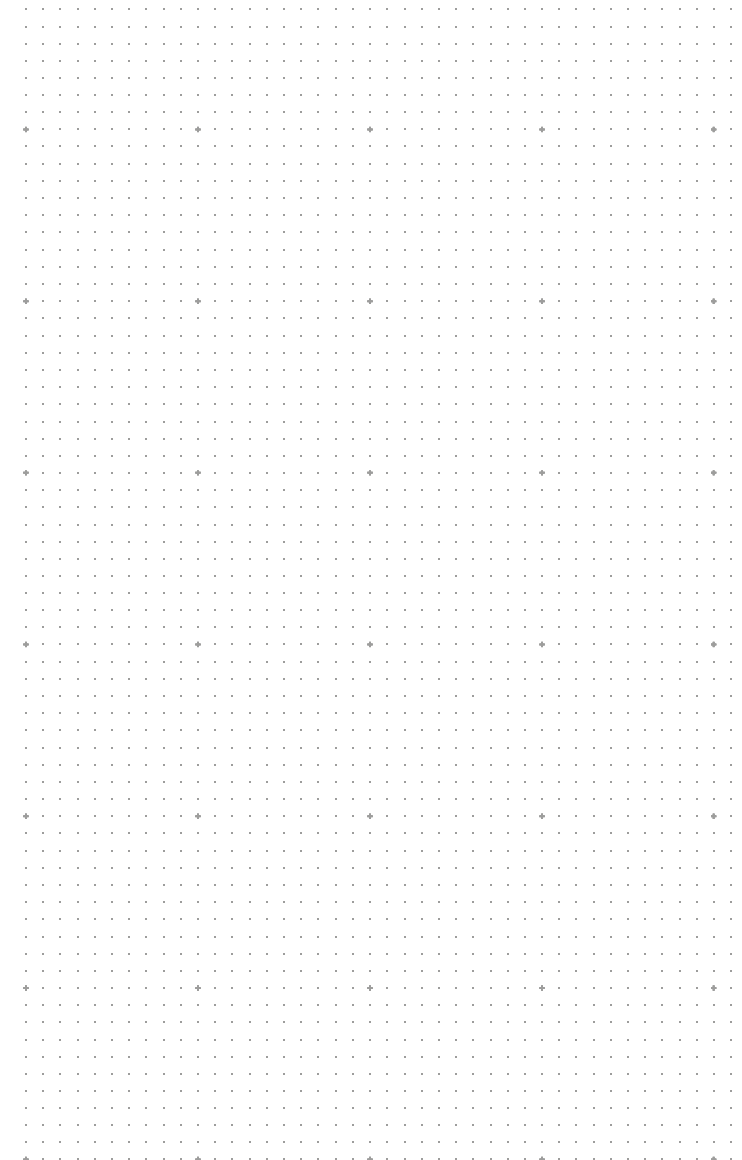
Five-year clean energy asset finance as a share of 2017 GDP in leading developing nations

Energy transition leaders amongst emerging markets have recorded higher investment levels relative to the size of their economy than their OECD peers

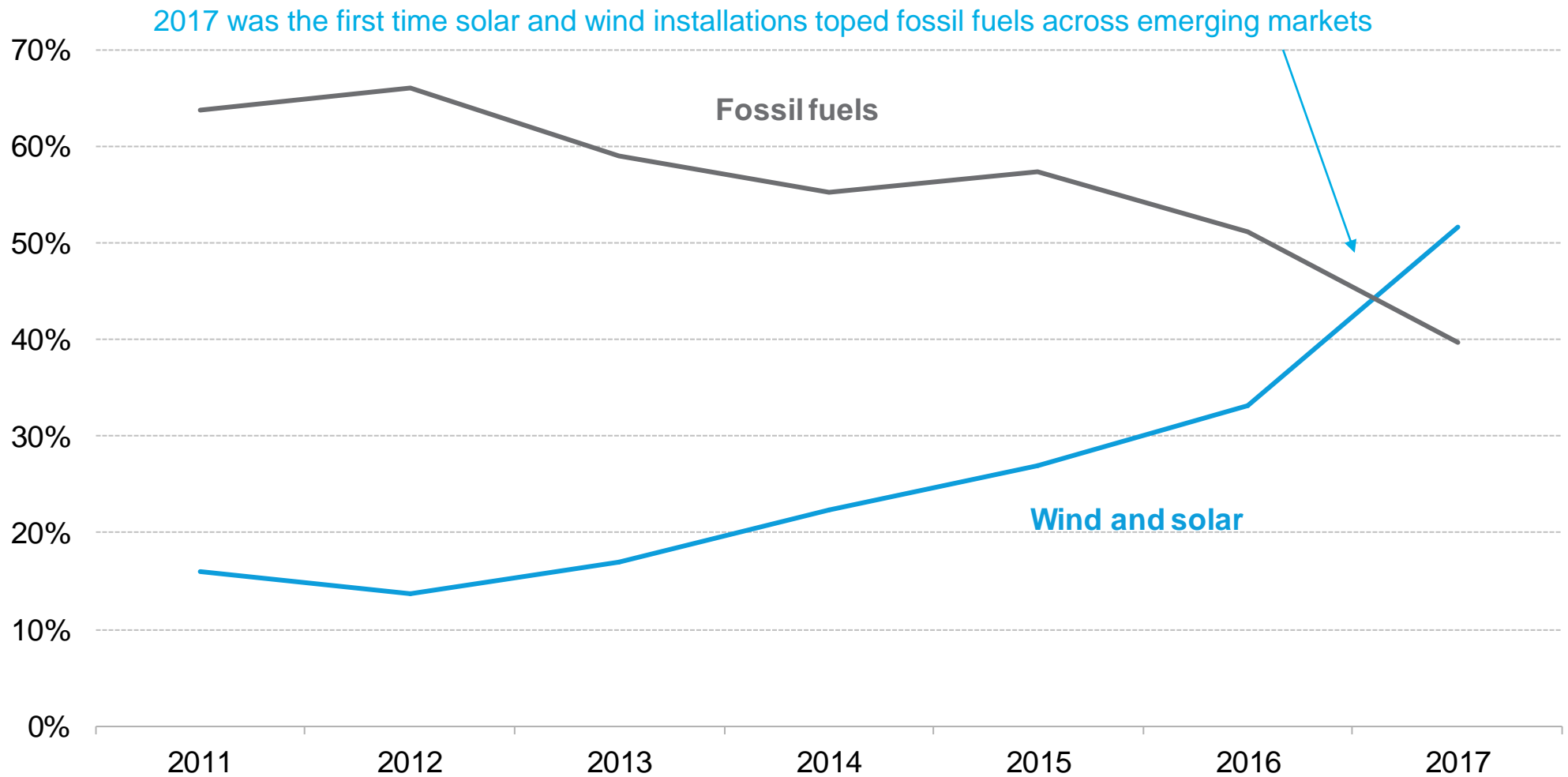


Source: BloombergNEF. Note: nominal yearly investment figures used against 2017 GDP.

Capacity and generation



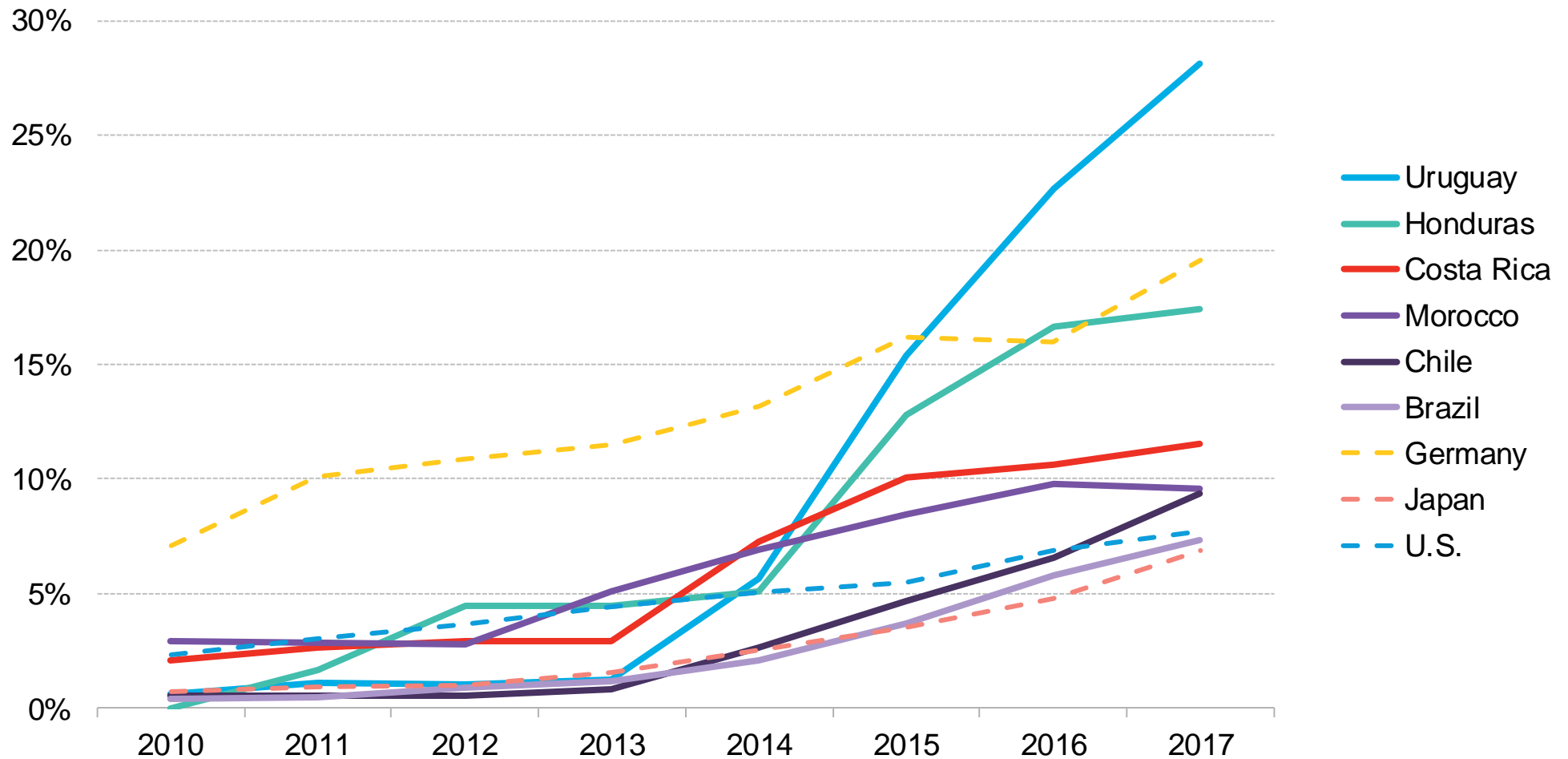
Share of annual capacity additions by technology in emerging markets



Source: BloombergNEF, Climatescope. Note: non-fossil fuel and non-wind/solar capacity additions were accounted for by nuclear, geothermal, biomass, and large hydro projects.

Share of wind and solar generation in select markets

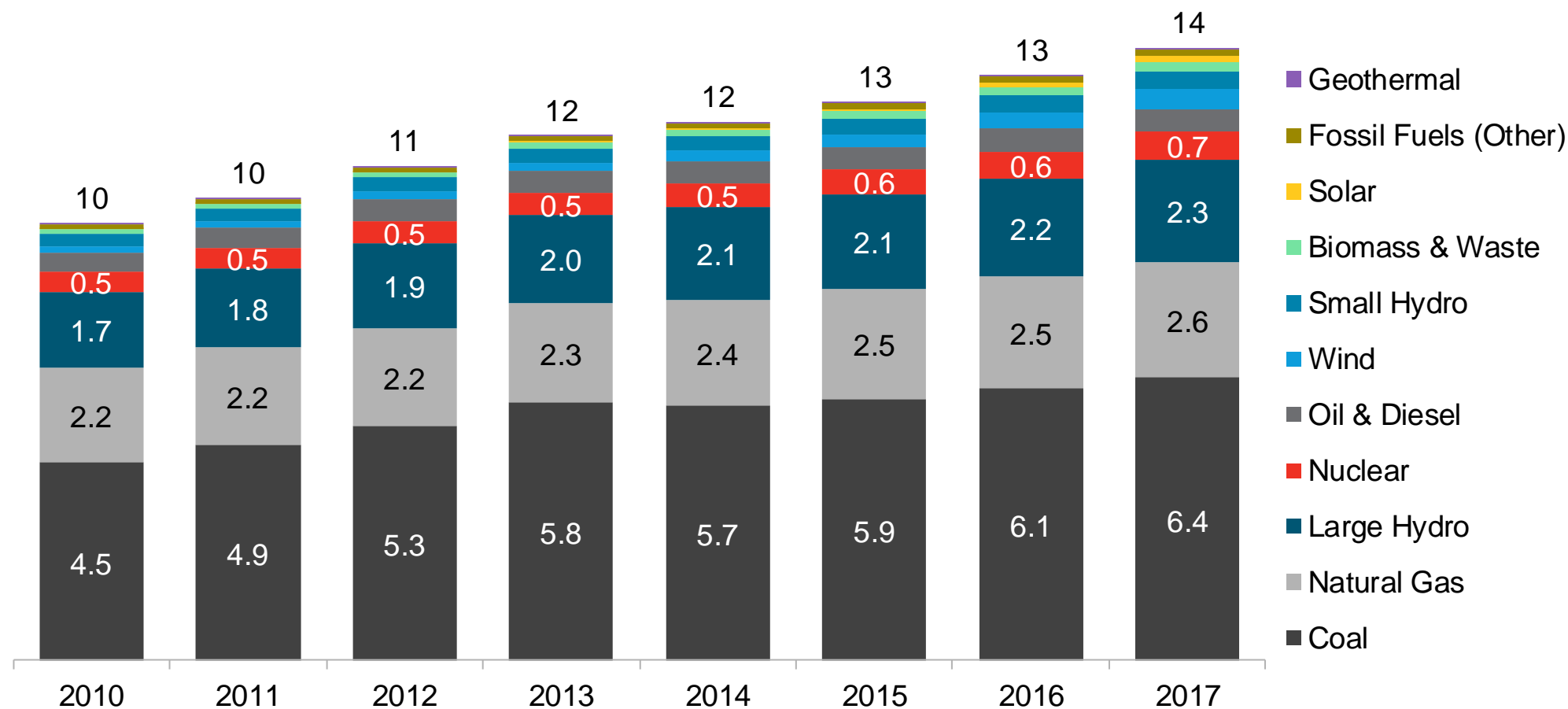
Emerging markets count amongst the world leaders in solar and wind penetration



Source: BloombergNEF, Climatescope

Annual generation by technology in emerging markets

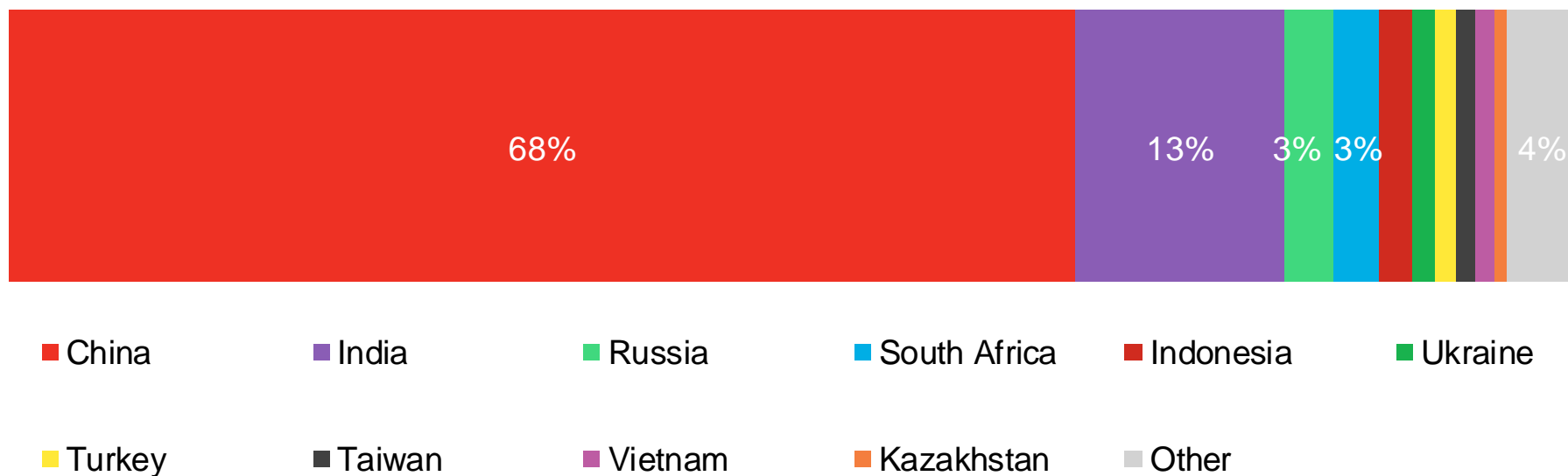
'000 TWh



Source: BloombergNEF, Climatescope

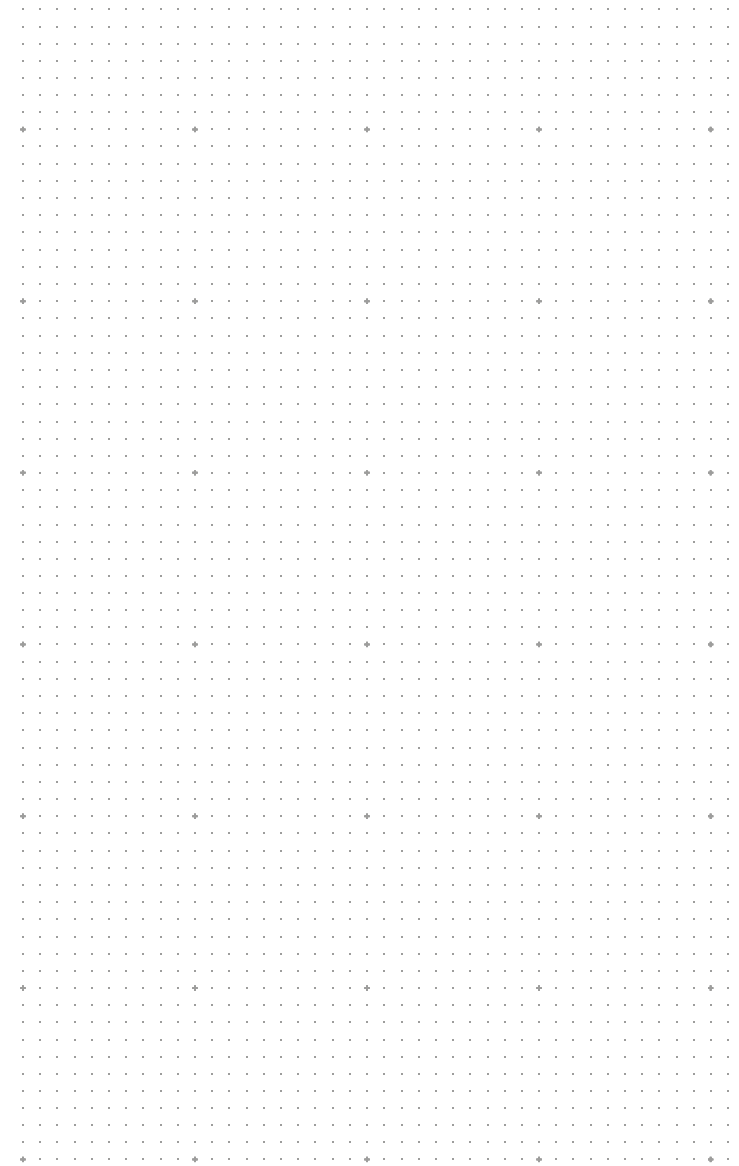
Coal cumulative installed capacity in emerging markets by country

The coal challenge in emerging markets is highly concentrated



Source: BloombergNEF, Climatescope

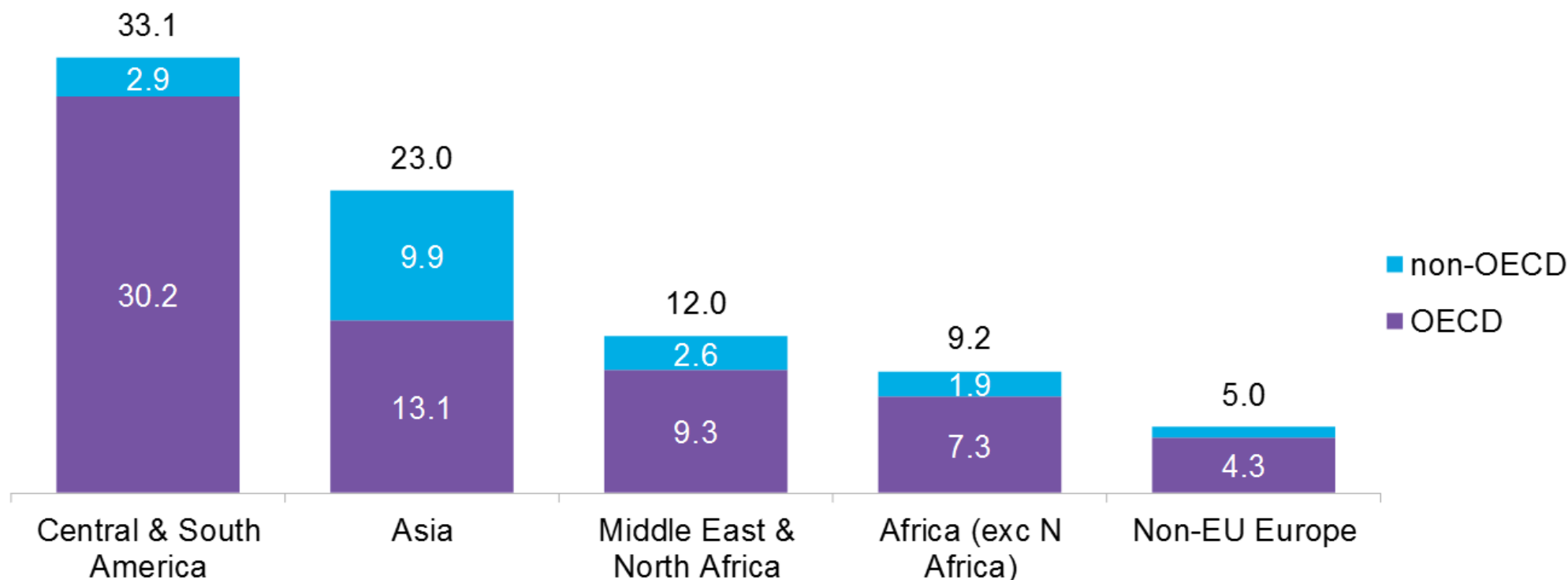
Foreign investment



10-year foreign renewables asset finance by region, \$ billion



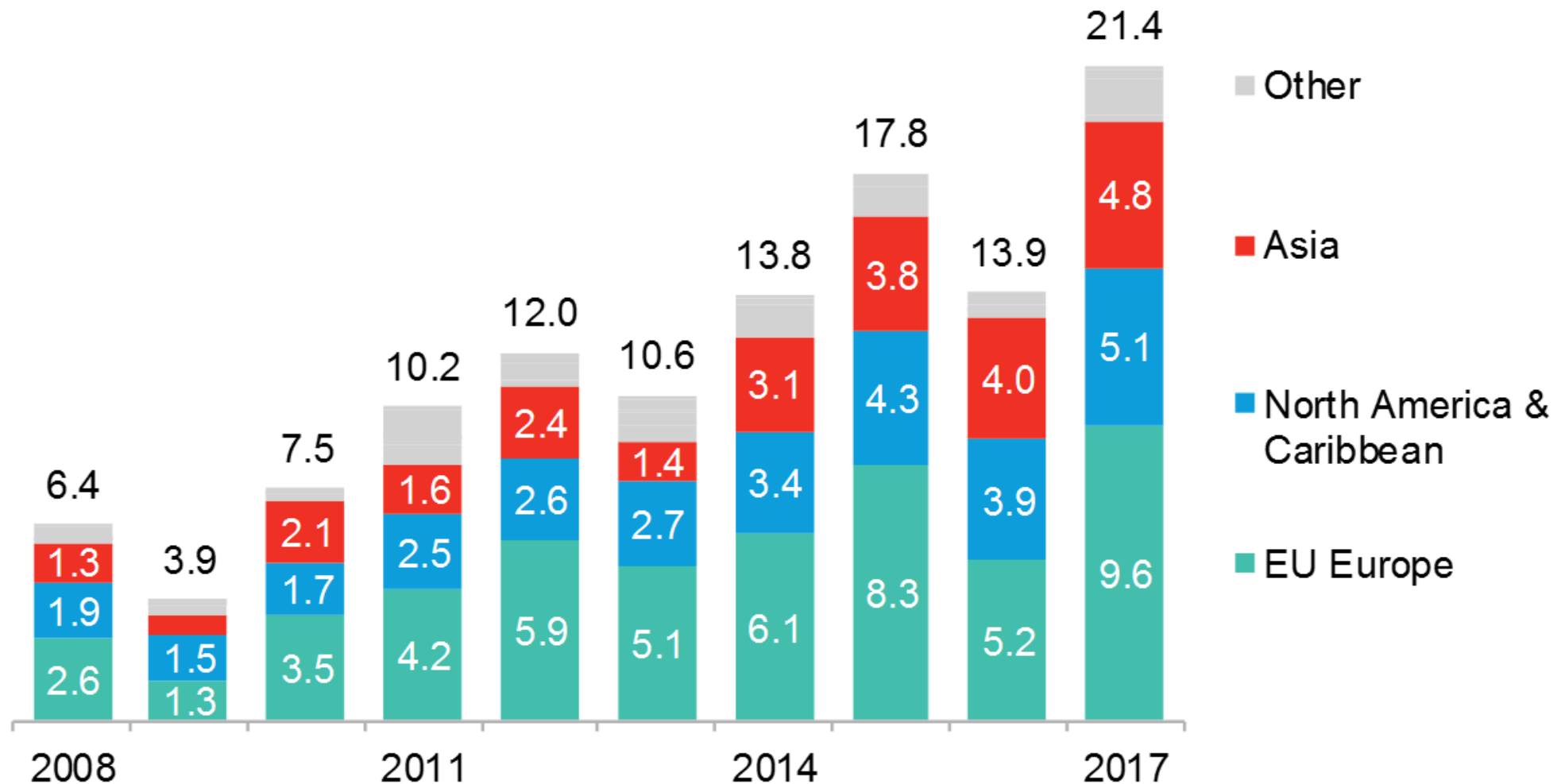
Latin America and its renewables auctions programs have attracted the most foreign investor interest



Source: BloombergNEF

Region of origin of emerging market foreign direct investment

Europe's utilities and development banks are the most active foreign investors in emerging markets



Source: BloombergNEF. Note: Includes 100 non-OECD nations, plus Chile, Mexico and Turkey.

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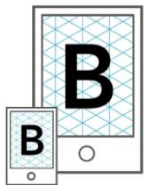
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