

# How China can achieve its ambitious decarbonisation plan

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China's pledge to achieve net-zero by 2060 appears ambitious, but it is central to the country's broader strategic interests and the pathway to realising its goal could provide new opportunities for investors.

When China's President Xi Jinping announced an ambitious set of decarbonisation goals to the UN General Assembly in 2020, some wondered what the real motives could be. China would aim for peak CO2 emissions by 2030, he stated, and for carbon neutrality by 2060.

Today, the answer is becoming increasingly clear; with approximately one fifth of the world's population and a vast land mass, it is natural that China would take a long-term strategic interest in limiting climate change and its destabilising effects.

But China's decarbonisation targets go beyond the country becoming more responsible as a global citizen; carbon neutrality also serves China's long-term strategic interests on other fronts. For instance, leading in the race for net zero could bolster technological leadership, while home-grown renewable energy should secure energy supplies in a country that relies heavily on imported crude oil and natural gas.

It is important to note, however, that China's path towards net zero will not be linear. Progress towards the end goal needs to be balanced by economic stability and energy security, and the journey will not be smooth.

## Three levers of progress

The task facing China is huge. The country is currently responsible for around a third of the

## Key takeaways

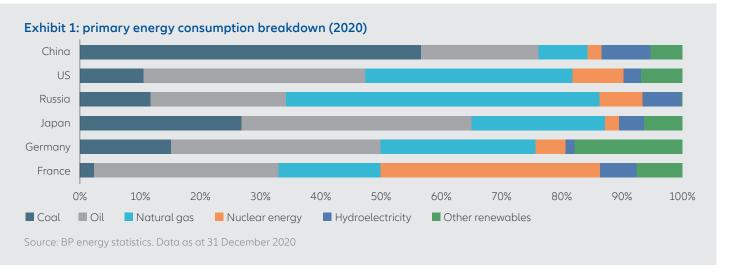
- China's long-term strategic interests are driving its ambition to be carbon neutral by 2060, but its push towards decarbonisation will be balanced with economic stability and energy security
- Nationwide coordination is key to China's decarbonisation and is creating investment opportunities across different sectors beyond the 'traditional' areas of renewable energy and electric vehicles
- There remains significant room for improvement among corporates, especially when it comes to setting quantitative decarbonisation carbon targets and roadmaps

world's CO2 emissions – more than the US, Europe and Japan combined. Further, with gross domestic product (GDP) per capita still lagging mature economies, emissions are a long way from naturally peaking. And, as Exhibit 1 shows, the country still relies on coal – the most polluting fuel – for half of its energy:

Even so, China seems committed to achieving net zero and will pursue it using a number of different "levers". The three key levers which each bring possible investment opportunities are:







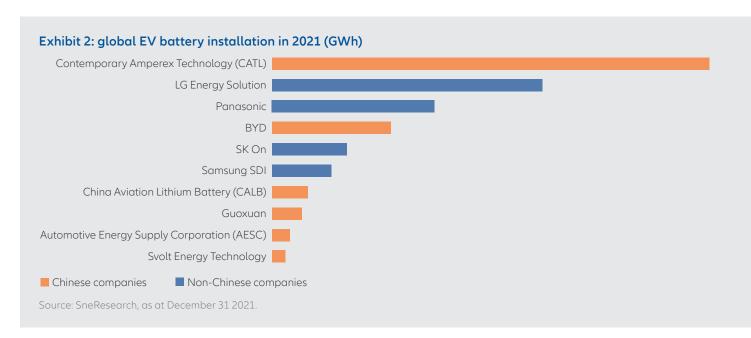
**Energy efficiency improvement** through enhanced technologies, improving the power generation mix and transforming the national power supply system, and the long-term decarbonisation of heavy manufacturers.

According to Tsinghua University, one of China's leading climate change faculties, energy efficiency improvements will likely have the most immediate part to play in decarbonisation. Temperature-proof building materials, automated production processes, smart route planning and industrial recycling are some examples of the ways China could achieve these efficiency improvements.

The **electrification of transportation** is another key factor. China accounted for around half of global sales of electric vehicles (EVs) during 2021 and it hosts six of the top 10 battery manufacturers globally (see Exhibit 2). The country is also electrifying buses and railways. Semiconductors and the software powering advanced driving systems are just two of the opportunities that electrification could provide for investors.

Outside of energy efficiency, improving the energy mix will be essential. The International Energy Agency estimates that by 2060, around 74% of China's primary energy consumption should come from wind, solar, hydro or other renewables.¹ Advances in this area have already been swift: in 2021 China represented about a third of wind and solar installation globally. This means China's domestic market has a mature supply chain. It is already competitive internationally and is exporting wind turbines to southeast Asian and European markets.

Within China, though, there is a natural mismatch between renewable energy generation and consumption. Wind and solar power are generated mainly in the north and west of the country, but chiefly used in the eastern coastal cities. Also, the peak time for solar generation is around lunch, while peak usage is in the evening. In order to overcome this imbalance and match generation with usage, China will need ultra-high-voltage power transmission, an intelligent national power grid system, an abundant energy storage system and a well-designed market mechanism to allocate energy in the most efficient way, all of which should create further investment opportunities.



The third lever is likely to also be the most difficult – decarbonising heavy manufacturing. Technological breakthroughs in areas such as carbon capture and hydrogen steel will be key to reducing emissions in the most polluting areas, such as steel, cement and aluminium, which underpin the economically critical property and infrastructure sectors. China's state-owned enterprises are leading the way in this area but, in reality, we are unlikely to see practical benefits in terms of meaningfully lower carbon emissions in the near term.

# Room for improvement in corporate targets

China's path towards carbon neutrality by 2060 has been charted and progress is being made. Even so, despite the government's commitment, individual companies have

been slower than those elsewhere to formalise climate policies and set quantitative carbon reduction targets. There is a perceived lack of the specialist skills, tools and science-based framework required but it should be remembered that China is only two years into this journey, and that many companies are still ramping up for the long-term change required.

We expect companies in China to follow the government's lead. Corporate frameworks should follow soon, and with them the transparency that investors increasingly seek. Such change will give further evidence of China's accelerating drive for decarbonisation – and the investment opportunities it is yielding

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