

Utilities - HK/China

China power market expert call takeaways: more supportive policies on renewables

Industry Overview

Key takeaways from China power expert call

We hosted Ms. XUE Jing, ex. Director at China Electricity Council to discuss her view on the China power market following recent political meetings. Key takeaways include:

More supportive policies on renewable energy

Ms. Xue believes recent comments from the political meetings suggest a faster development for the renewable energy sector. The government is looking to resolve the bottlenecks by: 1) accelerating transmission grid construction and adding more flexibility to it, e.g. having dedicated power capacity, non-grid connected renewable power etc.; 2) utilizing big data AI to better predict demand and mitigate spot market trading risk; 3) stricter energy consumption per unit of GDP target; 4) developing new storage system.

Renewables installation may reach 290-300GW in 2024

Recent events have boosted Ms. Xue's renewable energy installation forecast from mild down YoY in 2024 to 290-300GW (2023: 293 GW). Longer term, she thinks wind & solar installation capacity can reach >2,200GW by 2030 (note official target at 1,200GW), compared to 1,050GW in 2023, i.e. over 160GW per annum additions. She thinks this is not a small addition and the pace of increase during 2026-30 will slow down.

Curtailment cap not a major impact to project return

On recent discussion about relaxing renewable curtailment cap, Ms. Xue thinks this is not a major impact to renewable project returns. This is because the new projects have no subsidies and tariffs will be increasingly market driven. On the other hand, unit cost has been coming down to around RMB17c/kWh and will be further down to RMB14c in 1-2 years. So renewable projects are still profitable. In addition, there are talks to determine renewable tariffs based on a reasonable return coupled with long-term contract. She thinks this could be a policy direction to mitigate the volatility in spot power market trading. On installation, she said every 1-2ppt reduction in utilization corresponds to 20-30GW additional renewable power capacity, but in reality, the boost will be smaller as some provinces have not been executing this curtailment cap policy.

Transmission grid investment to speed up

On Ultra-High-Voltage (UHV) lines, Ms. Xue thinks the construction looks to be lagging the major energy base projects (wind & solar at 455GW by 2030). The first batch of projects is up and running using existing UHV lines. The second batch will mainly rely on Direct Current lines with faster approval process. Energy consumption will also shift to encourage local usage. Overall UHV lines are still undersupply in the next 1-2 years. On transmission grid, she thinks investment will accelerate to accommodate 500GW of renewable capacity by 2025. She expects the Commercial & Industrial distributed solar will see a better growth without much constraint from grid.

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