

China

Chinese nuclear industry



Overview

22

nuclear power plants

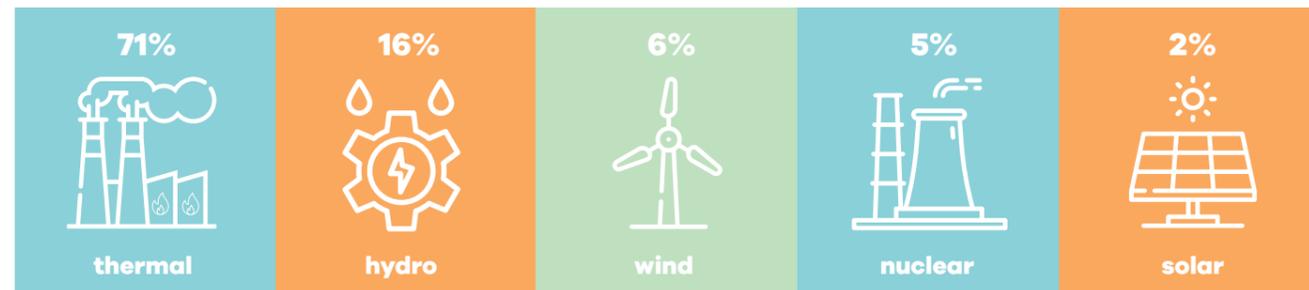
49

nuclear reactors

17

nuclear reactors under construction

Generation mix



Nuclear facts on China

2060 Nuclear energy expected to play a significant role in reaching China's 2060 goal to be carbon neutral

70 GW China aims to have 70 GW of installed nuclear capacity by 2025

18% Over the next five years, China sets a 18% reduction target for CO₂ intensity and 13.5% for energy intensity



Viewpoint

CNEA's views on China's future energy system and nuclear energy development

China has become the world's largest energy producer and consumer, and the country that improved its energy utilization efficiency at a quickest speed. Guided by the new energy security strategy of "four revolutions and one cooperation" proposed by President Xi Jinping (to push forward energy consumption revolution, energy supply revolution, energy technology revolution, energy system revolution, and strengthen international cooperation in the field of energy all around), China is accelerating the construction of a clean, low-carbon, safe and efficient energy system.

In September 2020, Chinese President Xi Jinping announced at the general debate of the 75th United Nations General Assembly that China will improve its self-reliance and make more effective policies as well as take the same effective measures to work towards its commitment of achieving a peak CO₂ emission by 2030 and carbon neutrality by 2060. It is expected that by 2030, China's non-fossil energy will account for about 25 percent of its primary energy consumption, and the total installed capacity of wind and solar power will reach over 1.2 billion kW.

As a clean, low-carbon, high-quality energy source, nuclear power has become an important option for China to address the climate change issue and achieve its carbon neutrality goal. Chinese government proposes in its 2021 yearly work report that it will "actively develop nuclear power in a good order with safety as a prerequisite", and explicitly indicates that China will continue to promote nuclear power construction steadily during the period of the 14th Five-Year Plan and beyond.

As a safe, stable energy source with high-efficiency, nuclear energy is also the only choice to replace traditional fossil energy to be the base-load power source on a large scale. It's important to promote the synergistic development of nuclear energy and renewable clean energy in order to ensure the stable operation of power grids as well as secure the stable supply of energy.

We wish that the efforts of Climate Change Conference (COP26) will enable every country to realize that nuclear energy is an important and essential option for addressing the global climate change issue in a more unanimous way. We also wish that all countries around the world will realize that we all should work together to promote the safe and efficient development of nuclear energy to make positive contributions that will help to address global climate change issue and build a clean and beautiful world.



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