

China ramps up coal plant approvals despite emissions pledge: report

February 27 2023, by Poornima WEERASEKARA



President Xi Jinping has pledged that China will peak its carbon dioxide emissions between 2026-2030 and reduce them to net zero by 2060.

China last year approved the largest expansion of coal-fired power plants since 2015, according to a study published Monday, despite its vow to

begin phasing down use of the fossil fuel in just three years.

The coal power capacity that China began building in 2022 was six times as much as that in the rest of the world combined, the report by the Centre for Research on Energy and Clean Air (CREA) in Finland and the Global Energy Monitor (GEM) added.

"China continues to be the glaring exception to the ongoing global decline in coal plant development," GEM research analyst Flora Champenois said.

"The speed at which projects progressed through permitting to construction in 2022 was extraordinary."

China is one of the world's biggest emitters of the greenhouse gases driving climate change, such as [carbon dioxide](#) (CO₂).

President Xi Jinping has pledged that China will peak its CO₂ emissions between 2026-2030 and reduce them to net zero by 2060, moves seen as essential for keeping global temperature rise well below two degrees Celsius.

The report warned that even if Beijing sticks to those commitments, the current coal power expansion will make meeting them "more complicated and costly".

A total of 106 GW of new coal power projects were approved in 2022—the equivalent of two large coal plants per week—it said.

Plants accounting for around a third of that capacity have already begun construction, with some gaining permits, securing financing and breaking ground "within a matter of months".



China relies on coal for nearly 60 percent of its electricity.

"This kind of a process leaves little room for... consideration of alternatives," GEM's Champenois added.

—Vicious cycle—

China relies on coal for nearly 60 percent of its electricity.

Most of the new coal projects have been approved in provinces hit by crippling electricity shortages due to record heatwaves in the last two years.

This creates a vicious cycle with increased [greenhouse gas emissions](#) accelerating climate change resulting in more frequent extreme weather events, researchers said.

The rush for approvals started after China's cabinet in May announced 10 billion yuan (\$1.5 billion) of investment in coal power generation.

"This is the same dynamic that we saw during the previous boom in 2015," Lauri Myllyvirta, Lead Analyst at CREA, told AFP.

"No one knows how long the floodgates will stay open, so [local governments](#) try to rush as many projects through as they can."

Local officials say new coal plants will serve as a backup to ensure stable supplies when renewables fail.



China has ramped up its investments in renewable power including solar, wind, hydro and nuclear plants in recent years.

But provinces such as Guangdong, Jiangsu and Anhui, where the new coal plants are mushrooming, were "laggards" in investing in [clean energy](#) to meet demand growth, the study found.

The continued investment in coal "implies insufficient emphasis on overcoming the power system and power market constraints that perpetuate dependence on coal", it added.

—Renewable growth?—

China has ramped up its investments in renewable power including solar, wind, hydro and nuclear plants in recent years.

If that growth continues to accelerate, the report said, and electricity demand stabilises, "the massive additions of new coal-fired capacity don't necessarily mean that coal use or CO₂ emissions from the power sector will increase", the report said.

However, [renewable energy projects](#) in China are struggling to get access to land, while in some areas, the grid cannot absorb all the power generated, the head of the China Photovoltaic Industry Association said this month.

The role of coal in ensuring energy security means developing more renewable power does not necessarily lead to a reduced reliance on the fossil fuel, analysts said.

"The biggest misconception is the idea that an increase in renewables will replace coal," Li Shuo, an activist at Greenpeace China, told AFP.

"That is the case with the rest of the world, but China's need for energy security has led to growth in wind, solar and coal all at the same time."

© 2023 AFP

Citation: China ramps up coal plant approvals despite emissions pledge: report (2023, February 27) retrieved 10 May 2024 from

<https://phys.org/news/2023-02-china-ramps-coal-emissions-pledge.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--