

Globe bounces back to nearly 2019 carbon pollution levels

November 4 2021, by Seth Borenstein



Smoke and steam rise from towers at the coal-fired Urumqi Thermal Power Plant in Urumqi in western China's Xinjiang Uyghur Autonomous Region on April 21, 2021. Global carbon pollution this year has bounced back to almost 2019 levels, after a drop during pandemic lockdowns. A new study by climate scientists at Global Carbon Project finds that the world is on track to put 36.4 billion metric tons of invisible carbon dioxide. Credit: AP Photo/Mark Schiefelbein, File

The dramatic drop in carbon dioxide emissions from the pandemic lockdown has pretty much disappeared in a puff of coal-fired smoke, much of it from China, a new scientific study found.

A group of scientists who track heat-trapping gases that [cause climate change](#) said the first nine months of this year put emissions a tad under 2019 levels. They estimate that in 2021 the world will have spewed 36.4 billion metric tons of carbon dioxide, compared to 36.7 billion metric tons two years ago.

At the height of the pandemic last year, emissions were down to 34.8 billion metric tons, so this year's jump is 4.9%, according to updated calculations by [Global Carbon Project](#).

While most countries went back to pre-pandemic trends, China's pollution increase was mostly responsible for worldwide figures bouncing back to 2019 levels rather than dropping significantly below them, said study co-author Corinne LeQuere, a climate scientist at the University of East Anglia in the United Kingdom.

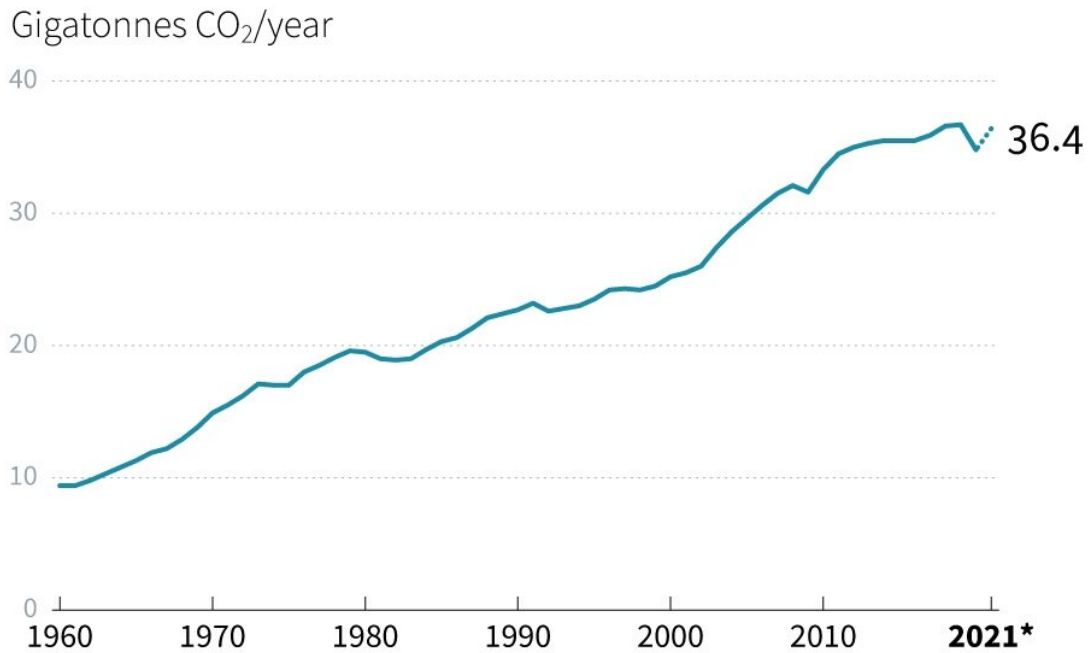
With 2020's dramatically clean air in cities from India to Italy, some people may have hoped the world was on the right track in reducing carbon pollution, but scientists said that wasn't the case.

"It's not the pandemic that will make us turn the corner," LeQuere said in an interview at the climate talks in Glasgow, where she and colleagues are presenting their results. "It's the decisions that are being taken this week and next week. That's what's going to make us turn the corner. The pandemic is not changing the nature of our economy."

GLOBAL FOSSIL CO₂ EMISSIONS

COP26

Emissions are back to pre-Covid-19 pandemic levels



Source: Global Carbon Project 2021

*Projection



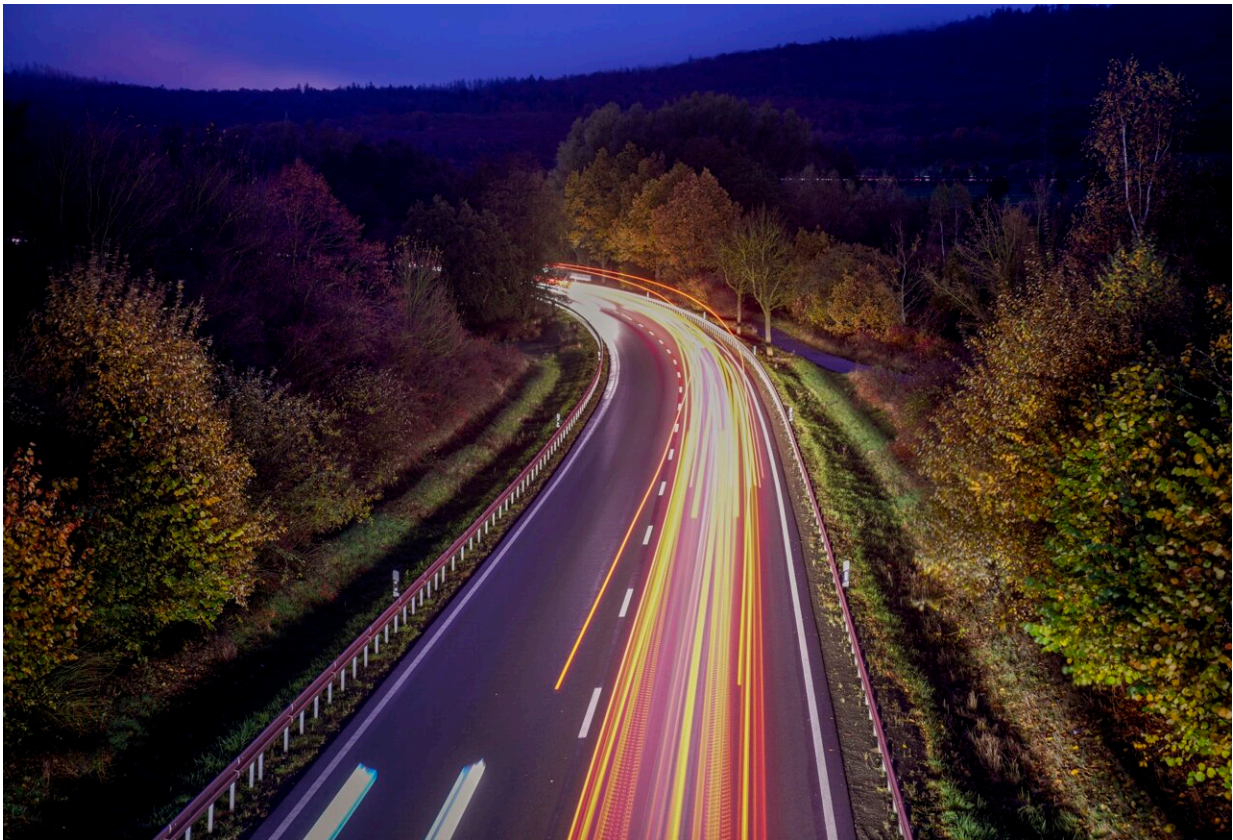
Chart showing the evolution of global CO₂ emissions, according to data from the Global Carbon Project 2021.

If the world is going to limit global warming to 1.5 degrees Celsius (2.7 degrees Fahrenheit) since pre-industrial times, it has only 11 years left at current emission levels before it is too late, the paper said. The world has warmed 1.1 degrees Celsius (2 degrees Fahrenheit) since the late 1800s.

"What the carbon emissions numbers show is that emissions (correcting for the drop and recovery from COVID19) have basically flattened now.

That's the good news," said Pennsylvania State University climate scientist Michael Mann, who wasn't part of the report. "The bad news is that's not enough. We need to start bringing (emissions) down."

Emissions in China were 7% higher in 2021 when compared to 2019, the study said. By comparison, India's emissions were only 3% higher. In contrast, the United States, the European Union and the rest of the world polluted less this year than in 2019.



Commuters move down a street in the Taunus region toward Frankfurt, Monday, Oct. 1, 2021. Global carbon pollution this year has bounced back to almost 2019 levels, after a drop during pandemic lockdowns. A new study by climate scientists at Global Carbon Project finds that the world is on track to put 36.4 billion metric tons of invisible carbon dioxide. Credit: AP Photo/Michael Probst, File

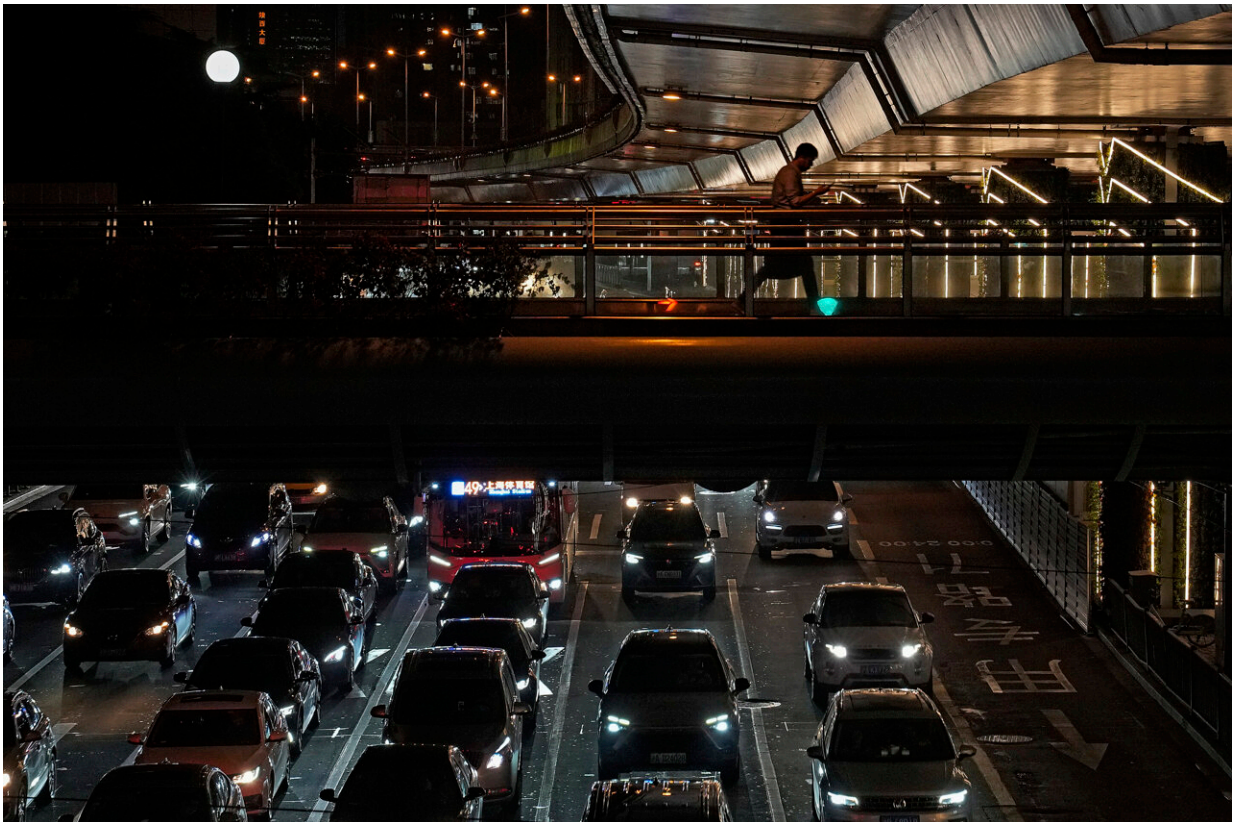
LeQuere said China's jump was mostly from burning coal and natural gas and was part of a massive economic stimulus to recover from the lockdown. In addition, she said, China's lockdown ended far earlier than the rest of the world, so the country had longer to recover economically and pump more carbon into the air.

The "green recovery" that many nations have talked about in their stimulus packages take longer to show up in [emission](#) reductions because rebounding economies first use the energy mix they already had, LeQuere said.



Cows gather near the coal-fired power station in Niederaussem, Germany, Oct.

24, 2021. Global carbon pollution this year has bounced back to almost 2019 levels, after a drop during pandemic lockdowns. A new study by climate scientists at Global Carbon Project finds that the world is on track to put 36.4 billion metric tons of invisible carbon dioxide. Credit: AP Photo/Michael Probst, File



A man walks across a pedestrian bridge as motorists sit in heavy traffic below in Shanghai, China, Aug. 25, 2021. Global carbon pollution this year has bounced back to almost 2019 levels, after a drop during pandemic lockdowns. A new study by climate scientists at Global Carbon Project finds that the world is on track to put 36.4 billion metric tons of invisible carbon dioxide. Credit: AP Photo/Andy Wong, File

The figures are based on data from governments on power use, travel, industrial output and other factors. Emissions this year averaged 115 metric tons of [carbon](#) dioxide going into the air every second.

Breakthrough Institute climate director Zeke Hausfather, who wasn't part of the study, predicts that "there is a good chance that 2022 will set a new record for global CO₂ emissions from fossil fuels."

© 2021 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Globe bounces back to nearly 2019 carbon pollution levels (2021, November 4)
retrieved 27 April 2024 from <https://phys.org/news/2021-11-globe-carbon-pollution.html>

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.