

CARBON DIOXIDE IN THE AIR AT HIGHEST LEVEL SINCE MEASUREMENTS BEGAN

Relevant for: Environment | Topic: Environmental Pollution - Air, Water, Soil & E-waste

This Jan. 16, 2020 file photo shows a Uniper energy company coal-fired power plant and a BP refinery beside a wind generator in Gelsenkirchen, Germany. | Photo Credit: [AP](#)

Despite a massive reduction in commuting and in many commercial activities during the early months of the pandemic, the amount of carbon in Earth's atmosphere in May reached its highest level in modern history, a global indicator released on Monday showed.

Scientists from the National Oceanic and Atmospheric Administration (NOAA) and the Scripps Institution of Oceanography at the University of California San Diego, said the findings, based on the amount of carbon dioxide in the air at NOAA's weather station on Mauna Loa in Hawaii, was the highest since measurements began 63 years ago.

The measurement, called the Keeling Curve after Charles David Keeling, the scientist who began tracking carbon dioxide there in 1958, is a global benchmark for atmospheric carbon levels.

Instruments perched on NOAA's mountaintop observatory recorded carbon dioxide at about 419 parts per million last month, more than the 417 parts per million in May 2020.

Because carbon dioxide is a key driver of climate change, the findings show that reducing the use of fossil fuels, deforestation and other practices that lead to carbon emissions must be a top priority to avoid catastrophic consequences, Pieter Tans, a scientist with NOAA's Global Monitoring Laboratory, said in a report on the emissions.

"We are adding roughly 40 billion metric tons of CO₂ pollution to the atmosphere per year," Tans wrote. "That is a mountain of carbon that we dig up out of the Earth, burn, and release into the atmosphere as CO₂ - year after year."

The amount of carbon in the air now is as much as it was about 4 million years ago, a time when sea level was 78 feet higher than it is today and the average temperature was 7 degrees Fahrenheit higher than it was before the Industrial Revolution, the report said.

Despite the pandemic lockdown, scientists were not able to see a drop in the overall amount of carbon in the atmosphere partly because of wildfires, which also release carbon, as well as the natural behavior of carbon in the atmosphere, the report said.

The carbon dioxide levels measured were not affected by the eruption of Hawaiian volcanoes, Tans said, adding the station is situated far enough from active volcanoes that measurements are not distorted, and occasional plumes of carbon dioxide are removed from the data.

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regeneration but only during young ages.

END

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