

UN health agency sets higher, tougher bar for air quality

September 22 2021, by Jamey Keaten and Drew Costley



In this Tuesday, Sept. 7, 2021 file photo, a man who scavenges recyclable materials for a living walks across a mountain of garage amidst smoke from burning trash at Dandora, the largest garbage dump in the capital Nairobi, Kenya. The World Health Organization said Wednesday Sept. 22, 2021, the negative health impacts of poor air quality kick in at lower levels than it previously thought, announcing revisions to its guidelines on air quality that set a higher bar for policymakers in a world where 90 percent of people already live in areas with one particularly harmful type of pollutant. Credit: AP Photo/Brian



Inganga, File

The harmful health effects of air pollution kick in at lower levels than previously thought, the World Health Organization said Wednesday as it set a new standard for policymakers and the public in the first update of its air quality guidelines in 15 years.

The U.N. health agency released its revised guidance as <u>climate change</u> is a leading topic at the U.N. General Assembly in New York. Chinese President Xi Jinping announced Tuesday that China will no longer fund power plants fired by coal, which generates several of the pollutants covered by the guidelines.

Since the last update of the WHO recommendations, better monitoring and science have cleared up the global picture about the effects of six major air pollutants on human health. According to the agency, 90% of the world's people already live in areas with at least one particularly harmful type of pollutant.

"There is nothing more essential for life than <u>air quality</u>," WHO Director-General Tedros Adhanom Ghebreyesus told reporters. "And yet, because of <u>air pollution</u>, the simple act of breathing contributes to 7 million deaths a year. Almost everyone around the world is exposed to unhealthy levels of air pollution."





In this Tuesday, Dec. 1, 2015 file photo, a man wearing a mask to protect himself from pollutants takes a selfie near the Turret of the Forbidden City on a heavily polluted day in Beijing. The World Health Organization said Wednesday Sept. 22, 2021, the negative health impacts of poor air quality kick in at lower levels than it previously thought, announcing revisions to its guidelines on air quality that set a higher bar for policymakers in a world where 90 percent of people already live in areas with one particularly harmful type of pollutant. Credit: AP Photo/Andy Wong, File

The guidelines, which are not legally binding and intended as a reference for policymakers, advocacy groups and academics, change the advised concentrations of six pollutants known to have impacts on health: two types of particulate matter known as PM 2.5 and PM 10, as well as



ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide.

The guidelines could also send a message to the wider public about lifestyle and business choices — whether it's driving cars and trucks, disposing of garbage, working in industrial jobs or farming.

WHO says the main human-generated sources of air pollution can vary geographically but include the energy and transportation sectors, as well as waste dump sites and home cooking and heating. It advised people to do their part by changing their lifestyles—not running car engines uselessly; avoiding use of plastics that could end up being incinerated; and walking, riding bikes or using public transportation to get to work.

"We hope the tighter standards will draw attention to just how critical clean air is for human and ecosystem health," Jessica Seddon, global lead for air quality at the World Resources Institute, said. "The difficulty will come in making the WHO guidelines meaningful for the average person going about their day."

While <u>wealthy countries</u> in Europe, Asia and North America have made strides in improving air quality in recent years, WHO says globally more than 90% of the world population breathes air with PM 2.5 concentrations that exceed the recommended levels in its last guidelines, published in 2006.





In this Wednesday, Nov. 11, 2020 file photo, vehicles drive on a highway as smog envelops the area of Lahore, Pakistan. The World Health Organization said Wednesday Sept. 22, 2021, the negative health impacts of poor air quality kick in at lower levels than it previously thought, announcing revisions to its guidelines on air quality that set a higher bar for policymakers in a world where 90 percent of people already live in areas with one particularly harmful type of pollutant. Credit: AP Photo/K.M. Chaudary, File

Such particles can penetrate deep into the lungs and enter the bloodstream, resulting in both respiratory and cardiovascular impacts. Air pollution has been linked to heart disease, diabetes, cancer, and early death, and recent evidence has suggested negative effects on pregnancy, cognitive development in kids, and mental health, experts say.

The new guidelines set or revise downward recommended air pollution



levels for nearly all of the six particles both on a daily and annual basis. For example, they slashed the PM 2.5 recommendation on an annual basis to 5 micrograms per cubic meter, down from 10 previously.

"That is just a huge change," said Susan Anenberg, associate professor of environmental and occupational health and global health at George Washington University. "This annual average for PM 2.5 in the guidelines is going to be extremely difficult to meet....There's very few people on the planet right now that have exposures that are that low."

The 2005 guidelines—which were actually published a year later—prompted many countries to take action even though they are voluntary, WHO insists. Since then, evidence has grown about the negative impacts of air pollution on health based on improved pollution measurement systems and exposure assessments, leading to the update.

The revisions also highlight another environmental concern that parallels widespread worries about global warming and the impact of burning fossil fuels.





In this Friday, Oct. 16, 2020 file photo, morning haze envelops the skyline on the outskirts of New Delhi, India. The World Health Organization said Wednesday Sept. 22, 2021, the negative health impacts of poor air quality kick in at lower levels than it previously thought, announcing revisions to its guidelines on air quality that set a higher bar for policymakers in a world where 90 percent of people already live in areas with one particularly harmful type of pollutant. Credit: AP Photo/Altaf Qadri, File

For countries around the world to meet the standards in the new WHO guidance "is going to require major changes to our human systems." Anenberg said. "They have to stop burning <u>fossil fuels</u>, and what the world decides to do about climate change in the coming weeks will have major impacts on whether or not we're able to follow a guideline like that."



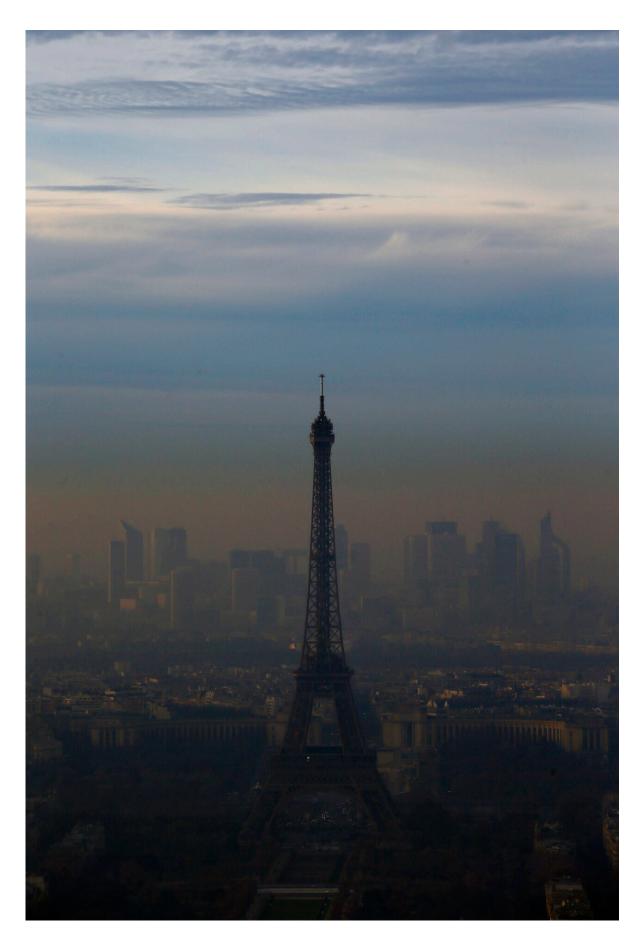
A key U.N. climate summit is set to take place in Glasgow, Scotland, in six weeks.

While developed countries and some developing ones have set standards for air quality, a report from the U.N.'s environment program earlier this month found that one-third of the world's countries have no legally mandated standards for the quality of outdoor air. Many of those are in Africa and the Western Pacific.

Over the last 20 years, air quality has improved in places where policies for reducing pollutant emissions have been enforced, including Europe, the United States and Canada, said Vincent-Henri Peuch, director of the European Union's Copernicus Atmosphere Monitoring Service.

China has seen improvements too. But air quality has deteriorated in many other parts of the world, especially in low-income countries, Peuch said.







In this Wednesday, Dec. 7, 2016 file photo, the Eiffel Tower is seen from the Montparnasse Tower, as Paris suffers a pollution spike. The World Health Organization said Wednesday Sept. 22, 2021, the negative health impacts of poor air quality kick in at lower levels than it previously thought, announcing revisions to its guidelines on air quality that set a higher bar for policymakers in a world where 90 percent of people already live in areas with one particularly harmful type of pollutant. Credit: AP Photo/Francois Mori, File

There are areas that offer promise. Experts note improvements through the retirement of old cars and their replacement with models that emit less <u>nitrogen dioxide</u> or run on batteries.

But WHO's overall message was stark.

"The unenviable challenge for policymakers will be to respond in a way that minimizes the proven harms to <u>health</u>, as set out by WHO, but with policies that are proportionate, cost-effective and crucially, deliver benefits equitably across the country and population," said University of York professor Alastair Lewis of the National Center for Atmospheric Science.

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

Citation: UN health agency sets higher, tougher bar for air quality (2021, September 22)

retrieved 26 April 2024 from

https://phys.org/news/2021-09-health-agency-higher-tougher-bar.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.