An unintended boon of shuttered factories along with empty roads and skies has been more breathable air.

There will be 11,000 fewer deaths in European countries under coronavirus lockdown due to a sharp drop in fossil fuel pollution during April, according to research released Thursday.

Measures to halt the spread of coronavirus have slowed the region's economies to a crawl, with coal-generated power falling by nearly 40 percent, and oil consumption by a third.

"This will result in 11,000 avoided deaths from air pollution," said lead author Lauri Myllyvirta, senior analyst at the Centre for Research on Energy and Clean Air (CREA).

Globally, oil use has declined by about the same amount, with drops in coal consumption varying by region.

An unintended boon of shuttered factories and empty roads has been more breathable air.

Levels of nitrogen dioxide (NO2) and small particle pollution known as PM2.5—both toxic by-products burning coal, oil and gas—fell 37 and 10 percent, respectively, according to the findings.

"The impacts are the same or bigger in many other parts of the world," Myllyvirta told AFP. "So we are looking at an even larger number of avoided deaths."

In China, for example, NO2 and PM2.5 levels declined by a 25 and 40 percent during the most stringent period of lockdown, with an even sharper fall in Hubei Province, where the global pandemic began.

Air pollution shortens lives worldwide by nearly three years on average, and causes 8.8 million premature deaths annually, according to a study last month.

The World Health Organization (WHO) calculates 4.2 million deaths, but has underestimated the impact on cardiovascular disease, recent research has shown.

Worst-hit is Asia, where average lifespan is cut 4.1 years in China, 3.9 years in India, and 3.8 years in Pakistan.

In Europe, life expectancy is shortened by eight months.

"Our analysis highlights tremendous benefits for public health and quality of life that could be achieved by rapidly reducing fossil fuels in a sustained and sustainable way," Myllyvirta said.
Compared to other causes of premature death, air pollution worldwide kills 19 times more people each year than malaria.

**Pollution and COVID-19**

The happenstance evidence that less air pollution saves lives should guide governments deciding on how to reboot their economies, noted Maria Neira, the WHO's director for Environmental and Social Determinants of Health.

"When we eventually take off our face masks, we want to keep breathing clean air," she said, commenting on the findings.

"If we truly care about the health of our communities, countries and global commons, we must find ways of powering the planet without relying on fossil fuels."

Compared to other causes of premature death, air pollution worldwide kills 19 times more people each year than malaria, nine times more than HIV/AIDS, and three times more than alcohol.

Another study comparing more than 3,000 US counties, meanwhile, found that PM 2.5 pollution is directly linked with higher COVID-19 death rates.

One extra micron per cubic metre corresponded to a 15 percent jump in COVID-19 mortality, researchers at the Harvard University T.H. Chan School of Public Health reported earlier this month.

The results "suggest that long-term exposure to air pollution increases vulnerability to experiencing the most severe Covid-19 outcomes," they wrote.

PM 2.5 particles penetrate deep into the lungs and enter the bloodstream, causing cardiovascular and respiratory problems.

In 2013, the WHO classified it as a cancer-causing agent.

In India's Uttar Pradesh—home to 200 million—small particle pollution by itself slashes life expectancy by 8.5 years, while in China's Hebei Province (population 74 million) the shortfall is nearly six years, according to the Air Quality Life Index, developed by researchers at the Energy Policy Institute of Chicago.

All but two percent of China's cities exceeded WHO guidelines for PM2.5 levels, while 53 percent exceeded less stringent national safety limits.

The UN says PM2.5 density should not top 25 microgrammes per cubic metre (25 mcg/m3) of air in any 24-hour period. China has set the bar at 35 mcg/m3.

The new analysis from CREA matches weather conditions and changes in emissions to data on the damages to health linked to exposure to air pollution.

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