

Pollution deadlier than wars, hunger or natural disasters; India among worst hit as 25 lakh people c

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New Delhi: Environmental pollution " from filthy air to contaminated water " is killing more people every year than all war and violence in the world. More than smoking, hunger or natural disasters. More than AIDS, tuberculosis and malaria combined.

Smog a day after Diwali festival at Rajpath in New Delhi on Friday.

One out of every six premature deaths in the world in 2015 " about 9 million " could be attributed to disease from toxic exposure, according to a major study released Thursday in The Lancet medical journal. Asia and Africa are the regions putting the most people at risk, the study found, while India tops the list of individual countries.

One out of every four premature deaths in India in 2015, or some 2.5 million, was attributed to pollution, the study found. China's environment was the second deadliest, with more than 1.8 million premature deaths, or one in five, blamed on pollution-related illness.

New Delhi covered in a toxic haze on Friday morning after Diwali fireworks caused air quality levels to plummet despite a ban on sale of fireworks by the Supreme Court.

The financial cost from pollution-related death, sickness and welfare is equally massive, the report says, costing some \$4.6 trillion in annual losses " or about 6.2% of the global economy.

"There's been a lot of study of pollution, but it's never received the resources or level of attention as, say, AIDS or climate change," said epidemiologist Philip Landrigan, dean of global health at the Icahn School of Medicine at Mount Sinai, New York, and the lead author on the report.

Several other countries such as Bangladesh, Pakistan, North Korea, South Sudan and Haiti also see nearly a fifth of their premature deaths caused by pollution.

The report marks the first attempt to pull together data on disease and death caused by all forms of pollution combined.

"Pollution is a massive problem that people aren't seeing because they're looking at scattered bits of it," Landrigan said.

People burst fire-crackers during Diwali celebrations in New Delhi on Thursday night.

Experts say the 9 million premature deaths the study found was just a partial estimate, and the number of people killed by pollution is undoubtedly higher and will be quantified once more research is done and new methods of assessing harmful impacts are developed.

Areas like Sub-Saharan Africa have yet to even set up air pollution monitoring systems. Soil pollution has received scant attention. And there are still plenty of potential toxins still being ignored, with less than half of the 5,000 new chemicals widely dispersed throughout the environment since 1950 having been tested for safety or toxicity.

To reach its figures, the study's authors used methods outlined by the US Environmental Protection Agency for assessing field data from soil tests, as well as with air and water pollution data from the Global Burden of Disease, an ongoing study run by institutions including the World Health Organization and the Institute for Health Metrics and Evaluation at the University of Washington.

Even the conservative estimate of 9 million pollution-related deaths is one-and-a-half times higher than the number of people killed by smoking, three times the number killed by AIDS, tuberculosis and malaria combined, more than six times the number killed in road accidents, and 15 times the number killed in war or other forms of violence, according to GBD tallies.

Vehicles ply on smog covered street during Diwali night on Thursday.

It is most often the world's poorest who suffer. The vast majority of pollution-related deaths "92%" occur in low- or middle-income developing countries, where policy makers are chiefly concerned with developing their economies, lifting people out of poverty and building basic infrastructure, the study found. Environmental regulations in those countries tend to be weaker, and industries lean on outdated technologies and dirtier fuels.

In wealthier countries where overall pollution is not as rampant, it is still the poorest communities that are more often exposed, the report says.

"What people don't realize is that pollution does damage to economies. People who are sick or dead cannot contribute to the economy. They need to be looked after," said Richard Fuller, head of the global toxic watchdog Pure Earth and one of the 47 scientists, policy makers and public health experts who contributed to the 51-page report.

"There is this myth that finance ministers still live by, that you have to let industry pollute or else you won't develop, he said. "It just isn't true."

The report cites EPA research showing that the US has gained some \$30 in benefits for every dollar spent on controlling air pollution since 1970, when Congress enacted the Clean Air Act, one of the world's most ambitious environmental laws. Removing lead from gasoline has earned the US economy another \$6 trillion cumulatively since 1980, according to studies by the US Centers for Disease Control and Prevention.

A sweeper cleans a street as smog covers it in New Delhi on Friday morning, a day after Diwali.

Some experts cautioned, however, that the report's economic message was murky. Reducing the pollution quantified in the report might impact production, and so would not likely translate into gains equal to the \$4.6 trillion in economic losses.

The report "highlights the social and economic justice of this issue," said Marc Jeuland, associate professor with the Sanford School of Public Policy and the Duke Global Health Institute at Duke University, who was not involved in the study.

Without more concrete evidence for how specific policies might lead to economic gains, "policy makers will often find it difficult to take action, and this report thus only goes part way in making the case for action," he said.

Jeuland also noted that, while the report counts mortality by each pollutant, there are possible overlaps "for example, someone exposed to both air pollution and water contamination" and actions to address one pollutant may not reduce mortality.

People burst crackers on the streets on Diwali night in Delhi on Thursday night

"People should be careful not to extrapolate from the US numbers on net (economic) benefits, because the net effects of pollution control will not be equivalent across locations," he said.

The study's conclusions on the economic cost of pollution measure lost productivity and health care costs, while also considering studies measuring people's "willingness to pay" to reduce the probability of dying. While these types of studies yield estimates at best, they are used by many governments and economists trying to understand how societies value individual lives.

While there has never been an international declaration on pollution, the topic is gaining traction.

The World Bank in April declared that reducing pollution, in all forms, would now be a global priority. And in December, the United Nations will host its first-ever conference on the topic of pollution.

"The relationship between pollution and poverty is very clear," said Ernesto Sanchez-Triana, lead environmental specialist at the World Bank. "And controlling pollution would help us address many other problems, from climate change to malnutrition. The linkages can't be ignored."

- AP