



Centre of Excellence for Research on Clean Air (CERCA)
Indian Institute of Technology, Delhi

Air Quality in Different Cities

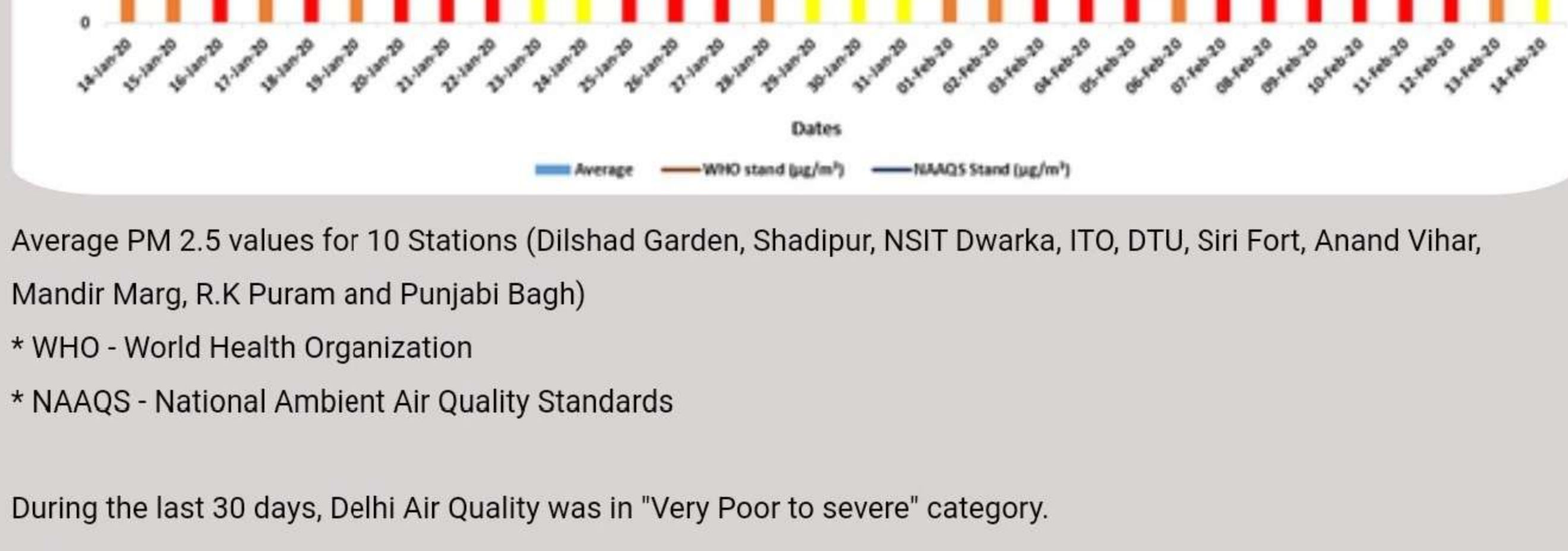


March 06, 2020, 11:00-12:00 IST (Hourly Average)

Sunlight, faster winds improve air quality in Delhi

Data Source: Berkeley Earth

"Delhi Air Quality" for last 30 days



Average PM 2.5 values for 10 Stations (Dilshad Garden, Shadipur, NSIT Dwarka, ITO, DTU, Siri Fort, Anand Vihar, Mandir Marg, R.K Puram and Punjabi Bagh)

* WHO - World Health Organization

* NAAQS - National Ambient Air Quality Standards

During the last 30 days, Delhi Air Quality was in "Very Poor to severe" category.

Data Source: CPCB

Delhi Long Term Air Quality Trend



PM 2.5 values from 10 monitoring stations in Delhi (Dilshad Garden, Shadipur, NSIT Dwarka, ITO, DTU, Siri Fort, Anand Vihar, Mandir Marg, R.K Puram and Punjabi Bagh)

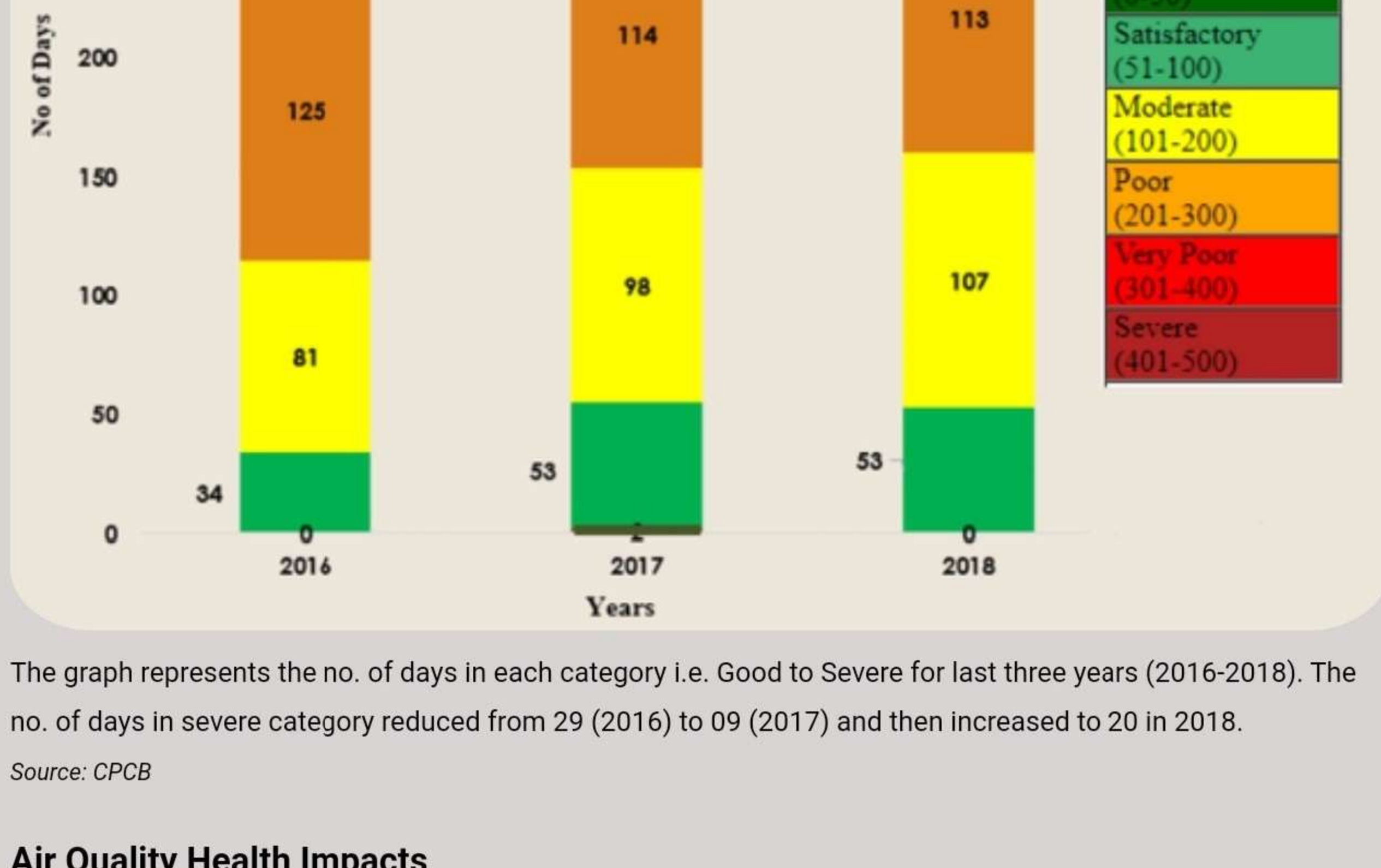
Note: Data for 2019 has been considered till the month of December 2019 only

* NAAQS - National Ambient Air Quality Standards

Average Air Quality has marginally improved in 2019 vis-a-vis 2018,2017 & 2016

Source: Data from 10 monitoring stations (CPCB)

Delhi Air Quality trend in terms of days from good to severe category



The graph represents the no. of days in each category i.e. Good to Severe for last three years (2016-2018). The no. of days in severe category reduced from 29 (2016) to 9 (2017) and then increased to 20 in 2018.

Source: CPCB

Air Quality Health Impacts

AQI	Associated Health Impacts
Good (0-50)	Minimal Impact
Satisfactory (51-100)	May cause minor breathing discomfort to sensitive people
Moderate (101-200)	May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease, children and older adults
Poor (201-300)	May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure
Very Poor (301-400)	May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases
Severe (401-500)	May cause respiratory effects even on healthy people and serious health impacts on people with lung/heart diseases. The health impacts may be experienced even during light physical activity

Thought Leadership



Source: Providence Journal

New Measures and Initiatives



Source: Deccan Herald

Health Impact

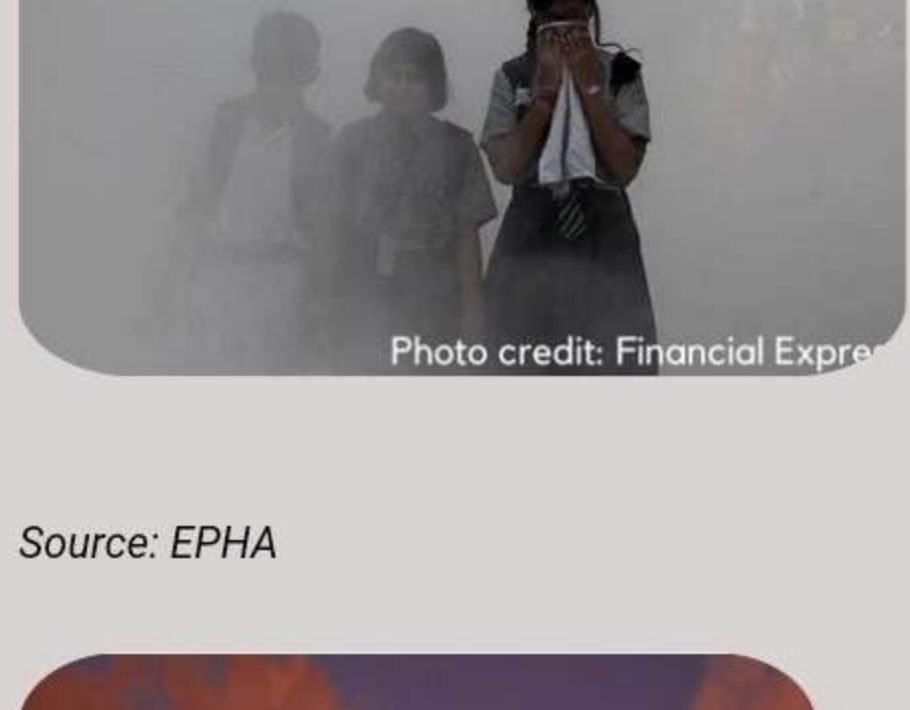


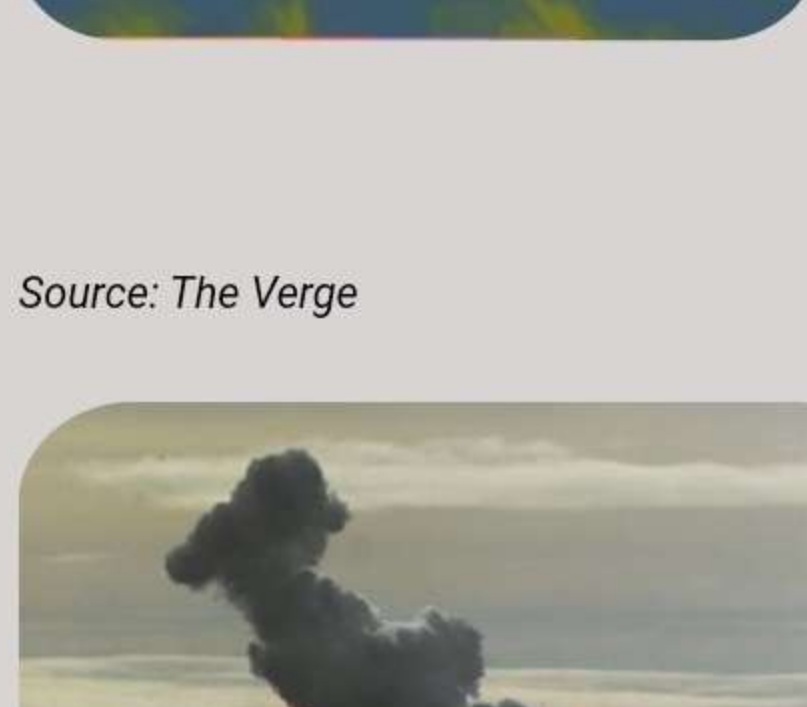
Photo credit: Financial Express

Source: EPHA



Source: CNN Health

International Developments



Source: The Verge



Source: Democracy Now

New Research (study) or Policy



Source: World Economic Forum



Source: The Guardian

New Technology



Source: The Economic Times



Source: The New York Times

U.S. cuts its emissions

United States is cutting its carbon dioxide emissions, even as its economy is booming, in sharp contrast to such heavily polluting, growing economic powerhouses such as China & India.

Two sponge iron plants shut for causing air pollution

The Sandur taluk administration has shut two sponge iron plants -Padmavathi at Chikka Anthapur and ISTPL at Yerabanahalli - for causing severe air pollution.

12 cities to get new air quality monitoring stations

State-run generation utility NTPC will help Central Pollution Control Board (CPCB) set up 25 continuous ambient air quality monitoring stations (CAAQMS) across six states and three Union Territories.

European governments united in addressing the air pollution health emergency

Air pollution is the number one environmental threat to health in the European region and globally, leading to 400,000 premature deaths and hundreds of billions of euros in health costs in the EU each year.

Even short-term exposure to low levels of air pollution can increase risk of cardiac arrest

Short-term exposure to air pollution is linked to a higher risk of sudden heart problems, especially among older people, according to a study.

Maps show drastic drop in China's air pollution after coronavirus quarantine

There's been a dramatic drop in pollution across China as the country tries to contain COVID-19, the disease caused by the novel coronavirus. New maps using data collected from NASA and European Space Agency satellites show how nitrogen dioxide, a dangerous gas released by burning fuel, has dissipated since the outbreak.

New York Has Highest Number of Premature Deaths from Out-of-State Air Pollution

A major new study on air pollution found that New York state has the largest number of premature deaths from out-of-state pollution.

6 of the world's 10 most polluted cities are in India

Six of the world's 10 most polluted cities are in India. New Delhi has the worst air pollution of any capital city. Air pollution kills 1.25 million people in India every year.

Outdoor air pollution cuts three years from human lifespan - study

Humans are missing out on almost three years of life expectancy on average because of outdoor air pollution, researchers have found.

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