

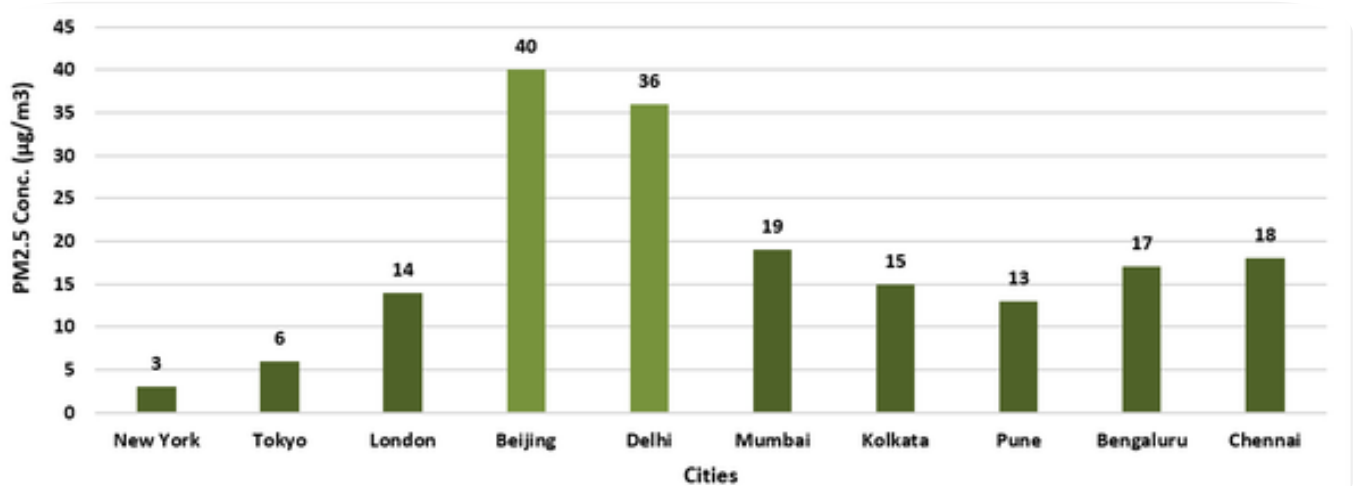
10 April 2020

CERCA Weekly Newsletter



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

Air Quality in Different Cities

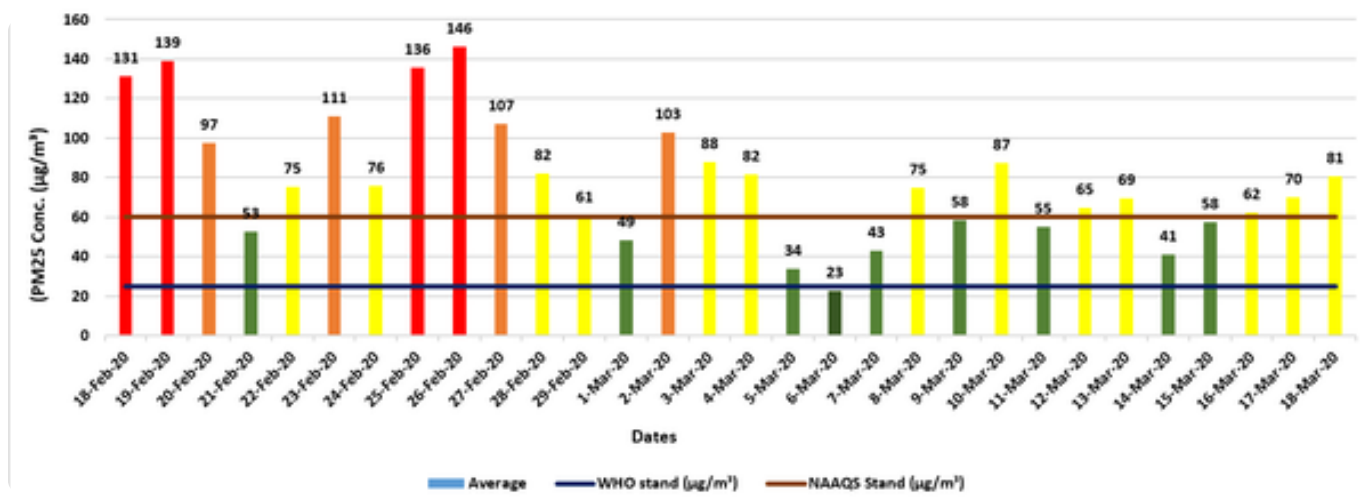


April 10, 2020, 11:00-12:00 IST (Hourly Average)

Delhi Air Quality was in 'Moderately Polluted' category in comparison to other cities in India and Globally.

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)

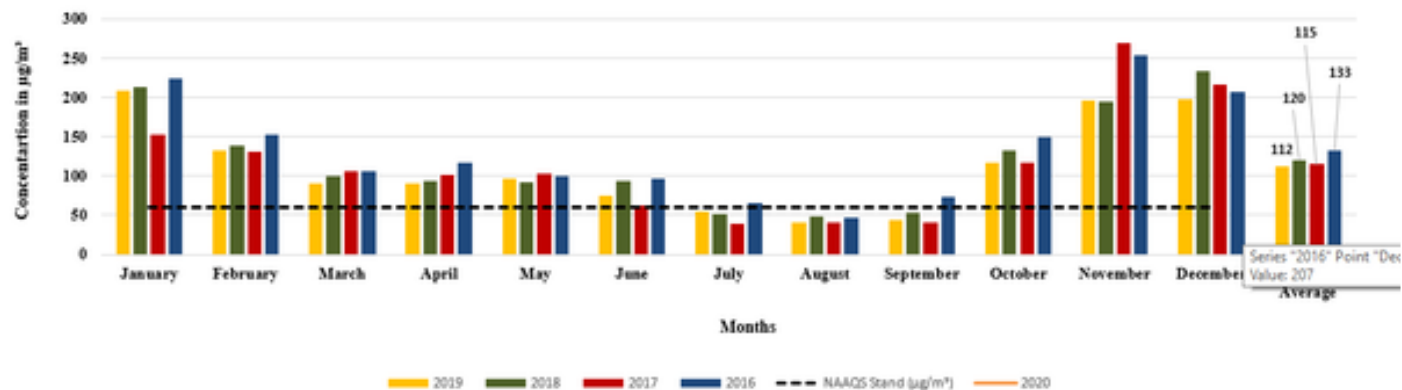
* WHO - World Health Organization

* NAAQS - National Ambient Air Quality Standards

During the last 30 days, Delhi Air Quality was in "Very Poor" 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 November 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 09 (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

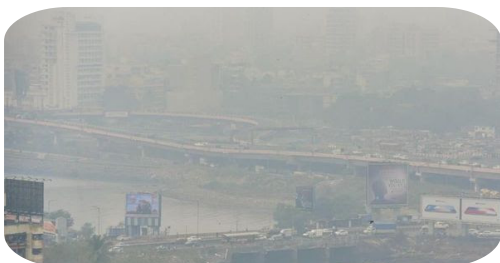


Source: CNN

The world's largest coronavirus lockdown is having a dramatic impact on pollution in India

When India imposed a nationwide lockdown a week ago, country of 1.3 billion people to a near halt has also provided a temporary remedy to another pressing health issue: suffocating pollution levels.

New Measures and Initiatives



Mumbai to get biggest chunk of grant from Centre to fight air pollution

As the government works on a mechanism to assist big cities in battling air pollution, Mumbai is set to get the highest grant of Rs 488 crore from the Centre's Rs 4,400-crore fund which is earmarked exclusively for cities with more than one million population in states to improve air quality during 2020-21.

Source: Economic Times



Source: *The Hindu*

Health Impact



Source: *The Hindu*



Source: *CNN Health*

International Developments



Source: *CNBC*

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.

Air pollution linked to increased dementia risk

People continuously exposed to air pollution are at increased risk of dementia, especially if they also suffer from cardiovascular diseases, warn researchers.

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.

Air pollution drops 30% in Northeast US as coronavirus lockdown slows travel: NASA

The northeastern U.S. has seen atmospheric levels of nitrogen dioxide air pollution decline by 30% in March compared with the same period last year in the wake of coronavirus lockdowns, according to new satellite data from NASA.

UK councils granted Â£2.2 million boost to



Source: *Energy Live*

tackle air pollution

Air Quality Grant will finance innovative projects that encourage cleaner transport and reduce harmful emissions

New Research (study) or Policy



Source: *The Hindu*

Coronavirus lockdown | Air quality improves in over 90 cities

With a nationwide lockdown in place, over 90 cities, including Delhi, recorded minimal air pollution in the last few days.



Source: *World Economic Forum*

Delhi: Ozone new concern in air

As the emission levels in the city have gone down with the lockdown in place, secondary pollutants like ground-level ozone (O₃) as well as nitrogen dioxide (NO₂) and carbon monoxide (CO) are now emerging as the lead pollutants

New Technology

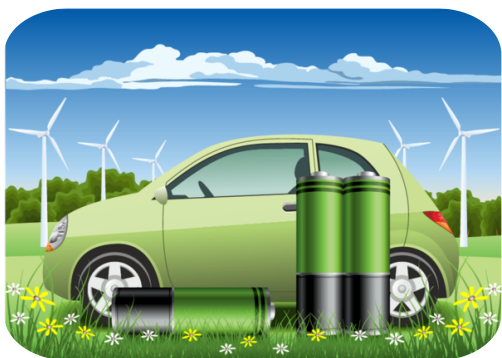


Source: *The Economic Times*

NTPC forays into electric bus business

NTPC Vidyut Vyapar Nigam Ltd (NVVN), a wholly-owned subsidiary of NTPC, has signed an agreement with the Department of Transport of Andaman & Nicobar Islands for deployment of electric buses in the Union Territory.

Budget 2020: Plug-in grant for electric vehicles cut



Source: *Fleet News*

The plug-in grant for certain electric vehicles (EVs) has been cut with immediate effect, after funding was secured for another three years.

For more details visit <http://cerca.iitd.ac.in/>

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