

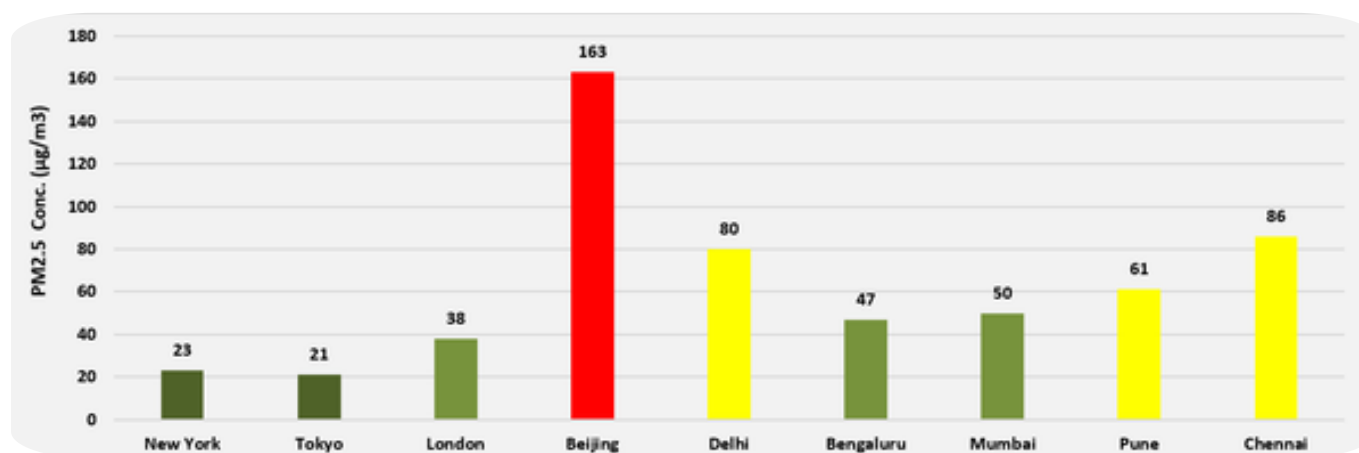
May 22 2020

CERCA Weekly Newsletter



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

Air Quality in Different Cities

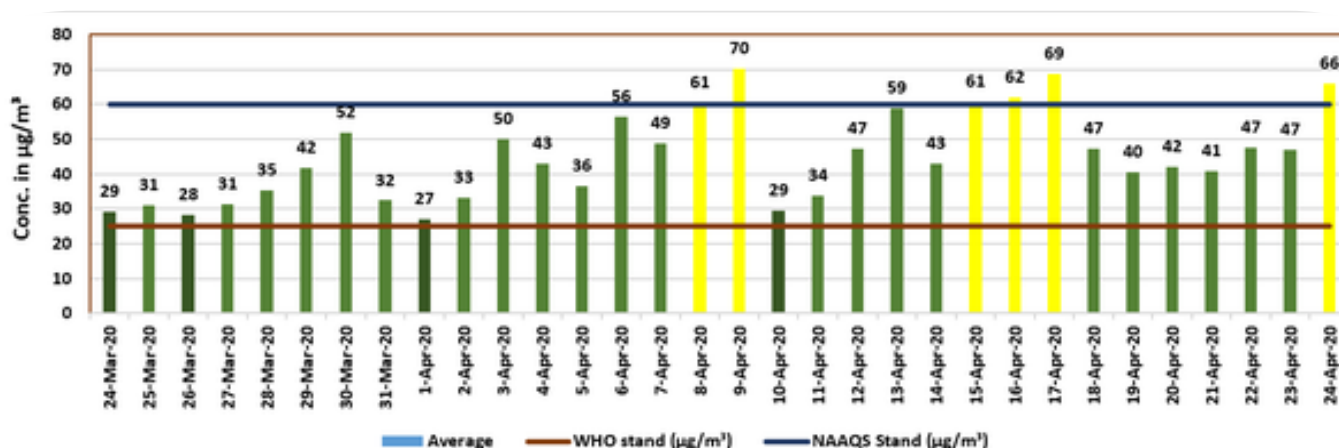


May 22, 2020, 03:00-04:00 IST (Hourly Average)

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

Data Source: aqicn.org, CPCB data

"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)

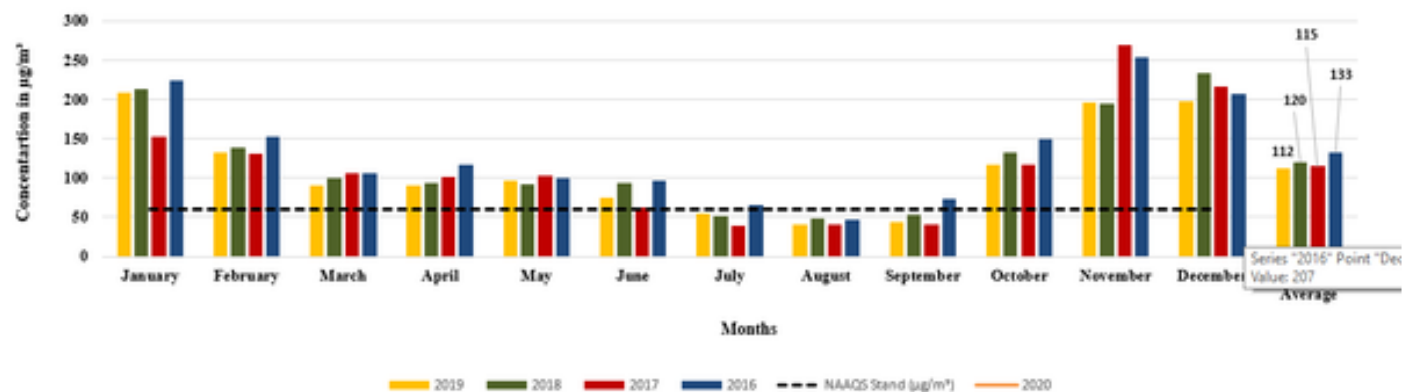
* WHO - World Health Organization

* 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: The Hindu

Opinion | No, the lockdown is not a green moment

COVID-19 and the consequent lockdown underscore the fact that equity has to be fundamental to improving the environment and is central to any vision of sustainable development.

New Measures and Initiatives



Source: The Hindu

Eco-compliance mechanism for industries to be revamped in A.P.

New law envisages third party audit and real-time monitoring of pollution

Now it's the time to focus on air quality



Source: Business Line

Health Impact



Source: aljazeera



Source: CNN Health

International Developments



Source: City Metric

The lockdown, BS-VI norms are positives; but strict PUC enforcement will make the real difference in fighting air pollution.

Prenatal Exposure to Household Air Pollution Affects Lung Development in Early Childhood

Prenatal and early life exposure to household air pollution may affect lung function development and lead to an increase in airway resistance, according to findings

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.

Lockdown has massively reduced Londons air pollution

According to figures released by the City of London Corporation the baffling body which, among other things, is the municipal council for the British capitals historic business district nitrogen dioxide levels in the area have reduced around 35% since the beginning of lockdown.



Source: EUobserver

New Research (study) or Policy



Source: Space.com



Source: Hindustan Times

New Technology



Air pollution returns to China

The European Environmental Bureau revealed on Tuesday that air pollution is returning to China after it eased lockdown restrictions, and warned the EU about a similar outcome.

Air pollution levels will bounce back as COVID-19 restrictions loosen, scientists say

A per study, air pollution has drastically decreased around the world as people stay home during the COVID-19 pandemic. However, as lockdown restrictions loosen and regular activity resumes it will continue to increase.

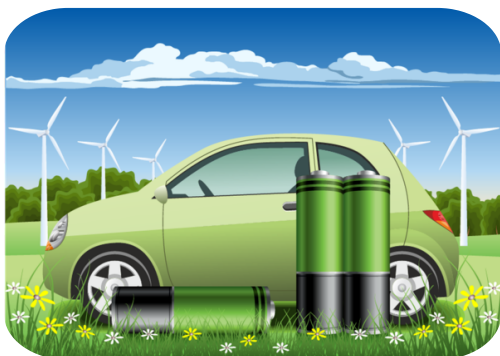
Air pollution on the rise in Noida as factories open

After staying within prescribed limits during the first three phases of lockdown, the air pollution levels in Noida and adjoining regions have now started to rise.

Post-coronavirus, India must shift EV goalposts, adopt available alternative fuels like auto LPG: Auto LPG Coalition

Indian Auto LPG Coalition, which has been highlighting the environmental benefits of transport fuel Auto LPG, stated that pushing the automobile sector singularly on shifting to the Electric Vehicle space - particularly in the current situation will spell further doom for the sector.

Source: *The Economic Times*



Source: *Fleet News*

Budget 2020: Plug-in grant for electric vehicles cut

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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