

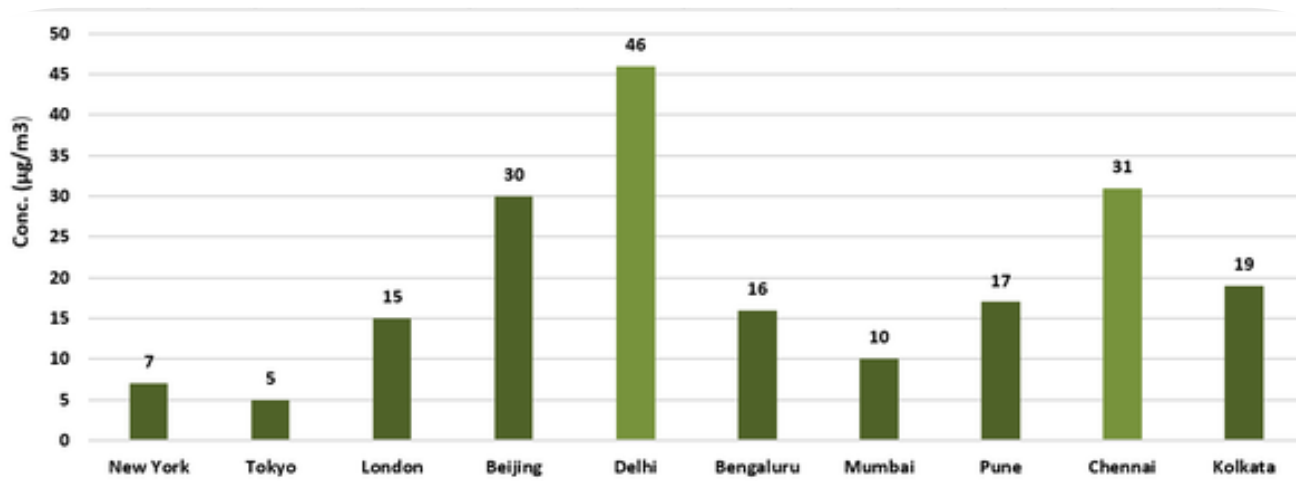
June 12 2020

CERCA Weekly Newsletter



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

Air Quality in Different Cities

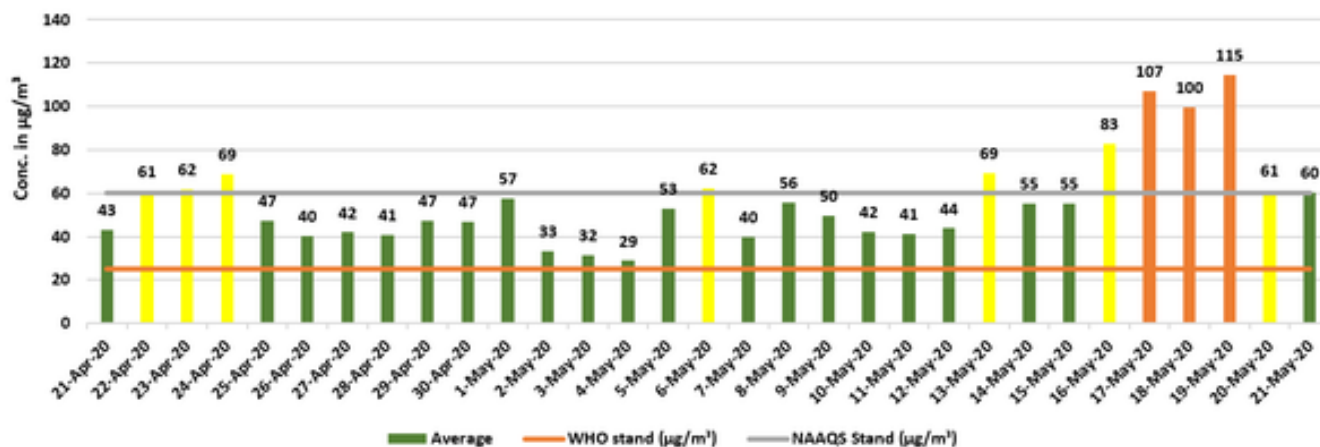


June 12, 2020, 03:00-04:00 IST (Hourly Average)

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

Data Source: 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)

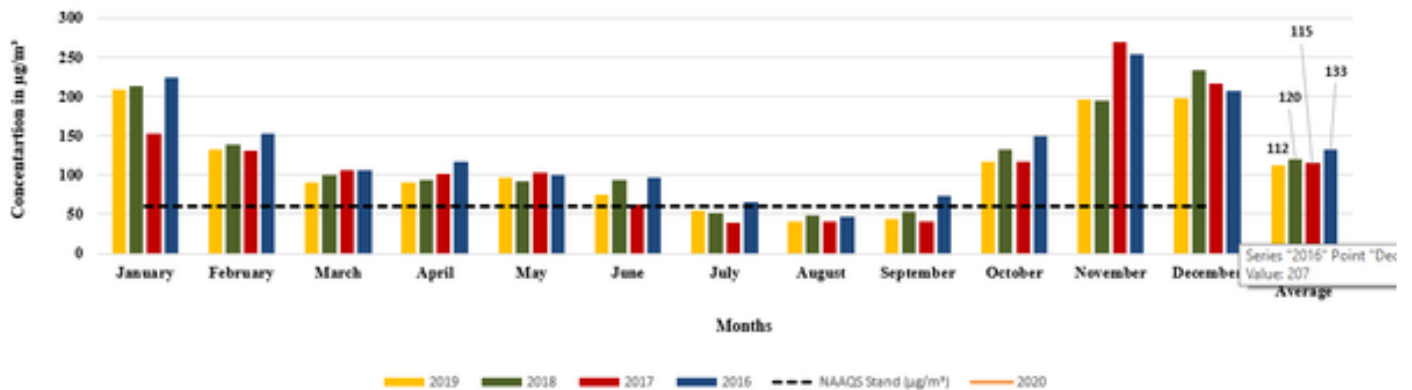
* WHO - World Health Organization

* 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

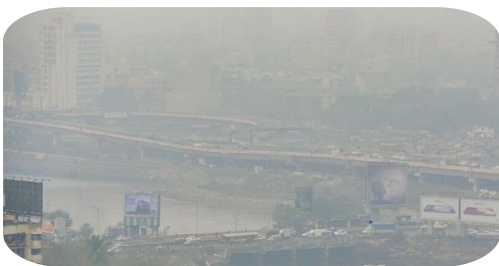


Source: *The Hindu*

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



COVID-19 lockdown-like interventions may help combat air pollution in India, say scientists

The lockdowns enforced due to the COVID-19 pandemic led to large improvement in air quality in India, say scientists who suggest that such interventions may be used as a possible emergency measure to combat severe air pollution episodes like those witnessed in Delhi-NCR region during the winter months.

Source: *The Hindu*



Source: *Air Quality News.com*

Health Impact



Source: *The Conversation*



Source: *Outlook*

International Developments



Source: *Hindustan Times*

Artificial Intelligence technology to predict air pollution spikes

New Artificial Intelligence (AI) technology will predict air pollution levels one hour in advance based on a flow of captured vehicle and air quality data.

Air pollution and temperature: bad for your heart and blood vessels

The rising temperatures that come with climate change present a global health challenge. There is scientific evidence that air pollution and hot weather increase the risk of cardiovascular disease hospital admissions and may even end in death.

Air pollution can pose serious threat to brain health: Study

The impact of inhaling polluted air on the lungs is well known, now the researchers have revealed that it can pose a serious threat to brain health as well.

China second pollution survey shows progress in battling emissions

China's second national survey of pollution showed major air and water pollutants dropped significantly in the ten years since 2007, though the region surrounding Beijing still remains one of the most polluted in terms of air quality.



Source: Hindustan Times

US emissions set for record dive with cars and factories idled

Greenhouse gas emissions in the US are poised for a record plunge this year, the result of coronavirus lockdown orders that have shuttered factories, closed stores and left cars and jets sitting idle.

New Research (study) or Policy



Source: Down To Earth

No mention of regional coordination to curb air pollution in 102 city plans, finds study

None of the 102 city-specific clean air plans in India proposed a regional coordination mechanism across state boundaries to curb air pollution, a new study



Source: The Hindu

COVID-19 lockdown-like interventions may help combat air pollution in India, say scientists

The lockdowns enforced due to the COVID-19 pandemic led to large improvement in air quality in India, say scientists who suggest that such interventions may be used as a possible emergency measure to combat severe air pollution episodes like those witnessed in Delhi-NCR region during the winter months.

New Technology



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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