

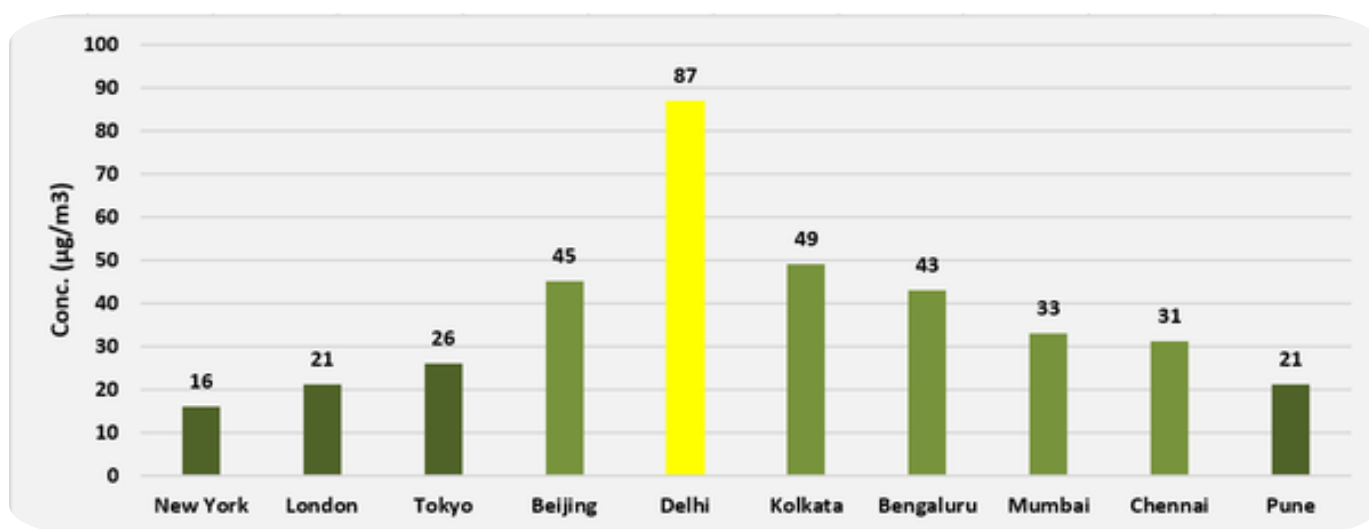
June 26, 2020

CERCA Weekly Newsletter



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

Air Quality in Different Cities

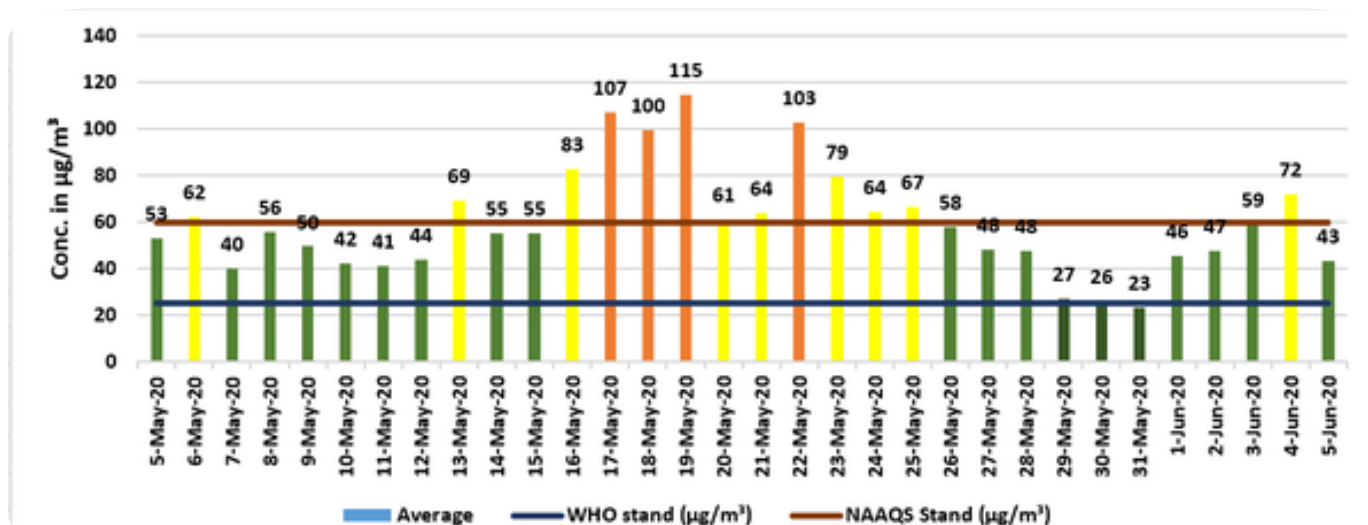


June 26, 2020, 03:00-04:00 IST (Hourly Average)

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)

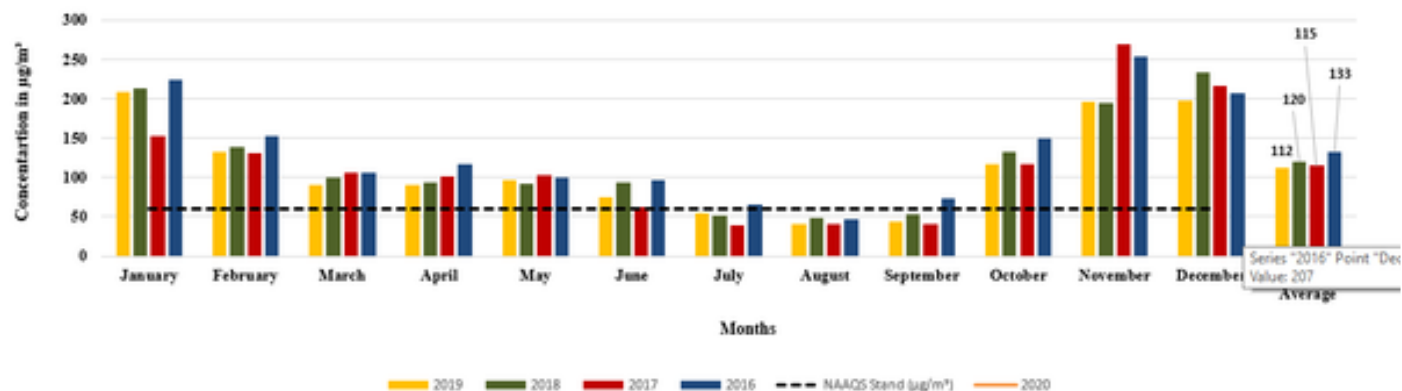
* WHO - World Health Organization

* 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 Guardian*



Source: *UPI*

International Developments



Source: *New Europe*

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.

Climate crisis poses serious risks for pregnancy, investigation finds

More than a decade of overwhelming evidence links air pollution and heat exposure with negative pregnancy outcomes in the US, according to a new review of dozens of studies.

Air pollution, heat linked to increased risk of premature birth

Pregnant women exposed to air pollution or heat waves face a greater risk of having a preterm or underweight baby, a new research review finds.

Battling air pollution, Warsaw becomes first Polish city to join EBRD Green Cities

Poland capital Warsaw has become the countrys first city to join EBRD Green Cities, the European Bank for Reconstruction and Developments flagship urban sustainability programme, the EBRD said on June 18.

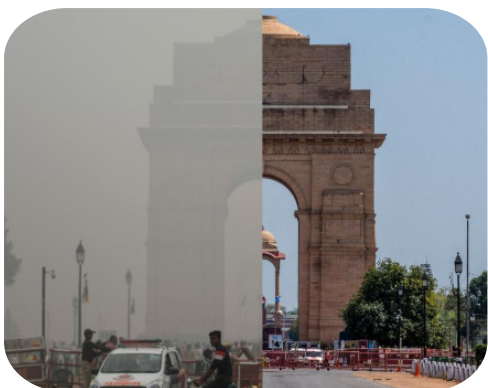


Source: Hindustan Times

New Research (study) or Policy



Source: The Times of India



Source: The Hindu

New Technology



COVID-19 makes air pollution a top concern worldwide

At least two-thirds of people in countries home to a fifth of the world's population support stricter laws and enforcement to tackle air pollution, the Clean Air Fund said Wednesday.

Air pollution in Delhi falls by 32.5%

The study analysed how lockdown and travel restrictions have altered pollution rates globally. It has taken into consideration over 80 cities around the world, allowing users to visualize the pollution levels in April 2019 compared to the same period in 2020.

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.

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/>

CONTACT US

Centre of Excellence for Research on Clean Air (CERCA)

Email: cerca@iitd.ac.in

Phone (Office): +91 (11) 2659 7361

Address: MS 207/ C 20, Indian Institute of Technology (IIT) Delhi, Hauz Khas,
New Delhi 110016, INDIA

Copyright 2020 CERCA, IIT Delhi