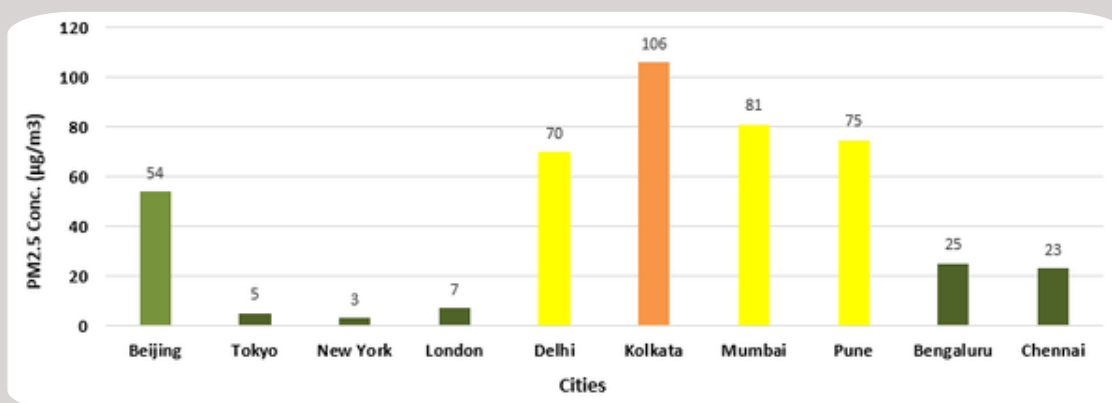


CERCA Weekly Newsletter



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

Air Quality in different cities

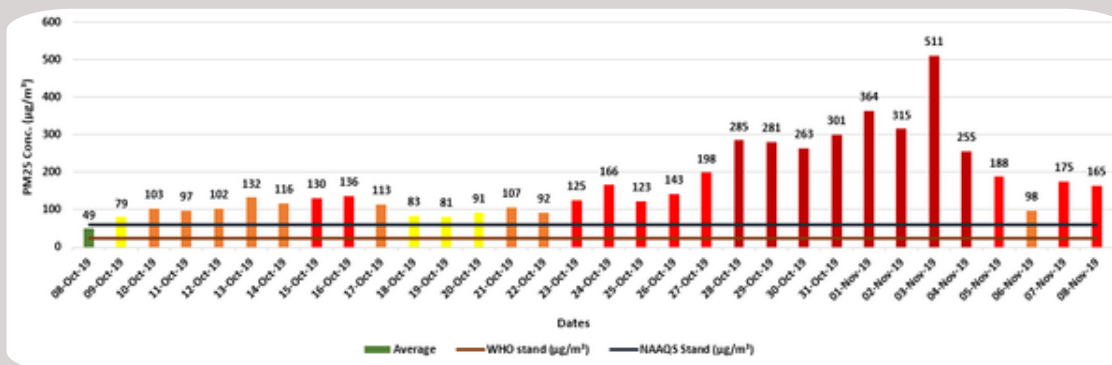


Delhi Air Quality is in 'moderate' category in comparison to other cities in India and Globally.

November 29, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

Delhi air quality for last 30 days

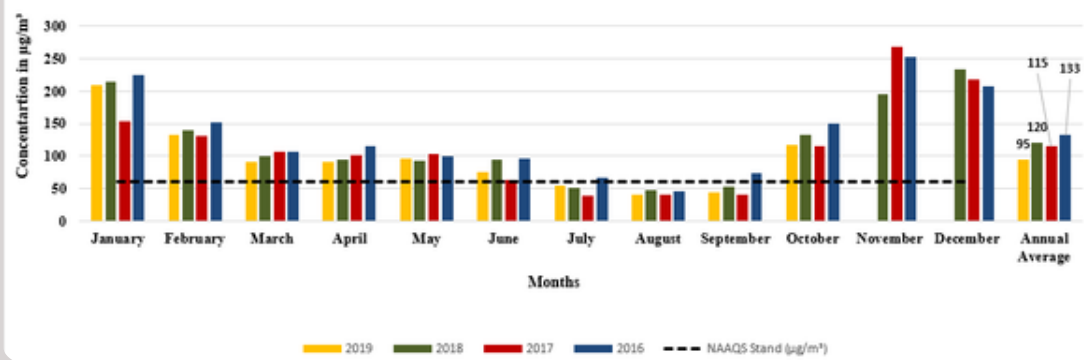


During the last 30 days, Delhi Air quality has moved from "Moderate" to "Severe" by the end of October'2019.

Average PM2.5 Air Quality for 10 monitoring stations in Delhi

Data Source: CPCB

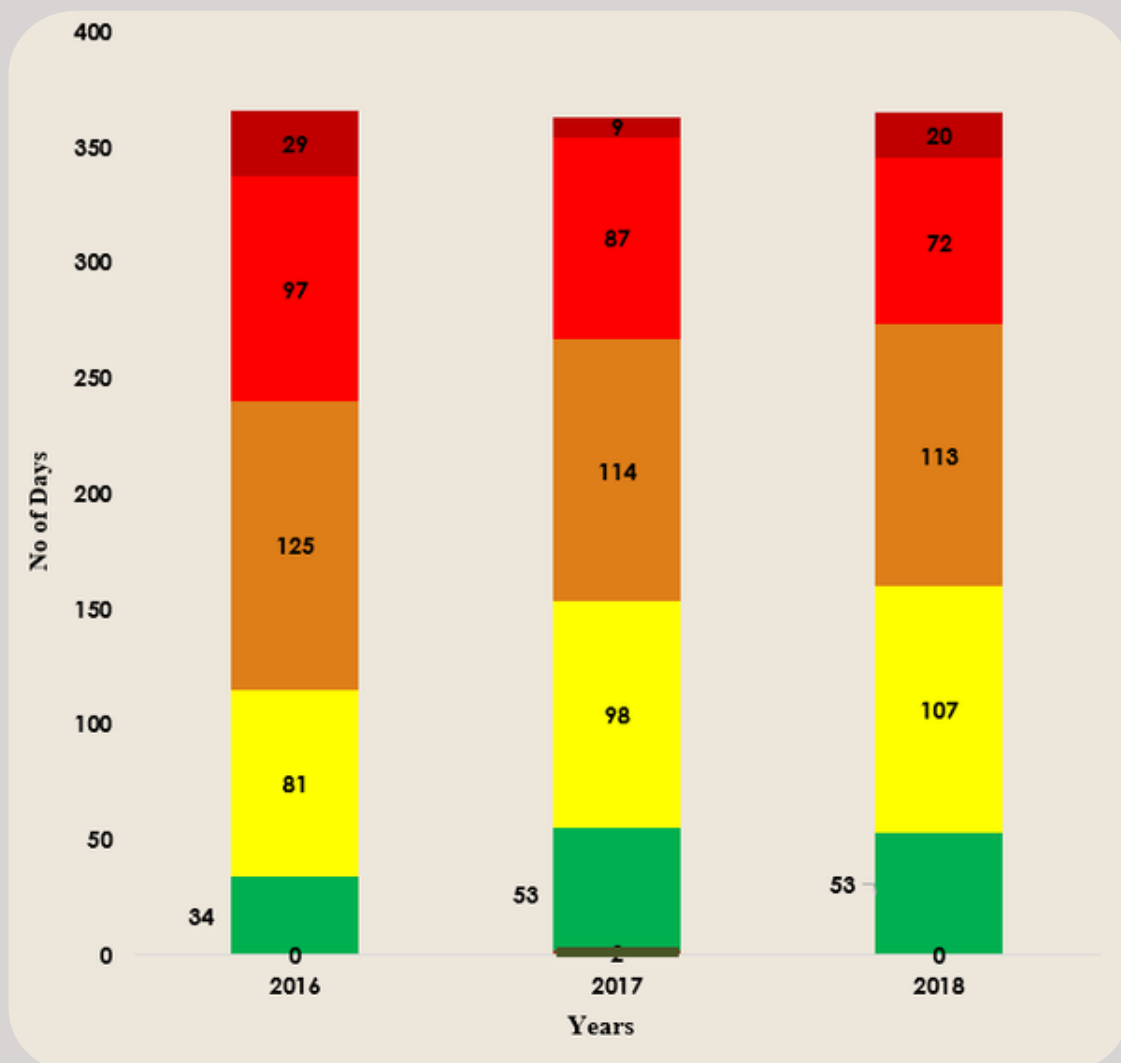
Delhi long term air quality trend



Average Air Quality has marginally improved in 2019 w.r.t 2018, 2017 and 2016.

Data Source: Source: Data from 10 monitoring stations (CPCB)

Delhi Air Quality



The graph represent 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..

Data Source: Source: Data from AQI (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



Stubble burning is not the only culprit

A solution to Delhi air pollution problem must look at farmers economic conditions, science and policy change.

Source: UNICEF

New Measures and Initiatives



MPCB gets real-time air pollution data using drones

Maharashtra Pollution Control Board (MPCB) has started using drones (unmanned aerial vehicles) to monitor pollution at specific traffic junctions in the city. MPCB said it had received permission from Mumbai Police to use drones .

Source: The Hindustan Times



Coal India, Isro tie up to develop satellite-based air pollution system

Coal India has tied up with the Indian Space Research Organisation (ISRO) to develop a satellite-based system to provide air pollution data online to the company and the government.

Source: The Economic Times

Health Impact

Air pollution linked to higher risk of glaucoma: Study



Report published in the journal "Investigative Ophthalmology & Visual Science" says that neighborhoods with higher amounts of fine particulate matter pollution were at least 6% more likely to report having glaucoma than those in the least-polluted areas.

Source: *The Hindu*



Don't stay out in smog for long: Air pollution can damage brain, lead to Alzheimer's

Exposure to higher levels of fine air pollutants may cause decline in memory, and lead to Alzheimer's-like brain damage, according to a study

Source: *The Economic Times*

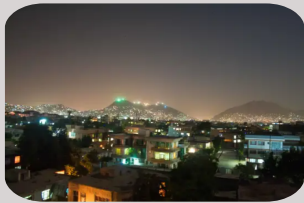
International Developments



Air pollution pushes mortality in Canadians: Study

Canadians are at higher risk of dying in areas that are highly polluted even though the country's levels of air pollution are among the lowest in the world, a study has said.

Source: *Down to Earth*



Worse than Beijing: Call for air pollution curbs as Sydney climbs global rankings

NSW Health issued a bush fire smoke alert for a third day on Friday, advising those with asthma or other lung conditions to limit outdoor activity.

Source: *The Sydney Morning*

New Research (study) or Policy



Delhi-NCR air quality best in 55 days

Delhi recorded its best air quality in 55 days on Thursday, courtesy rains and high-velocity winds that kept pollution in check. The city recorded its overall air quality index at 106, the best since October 5, when it was 98. On Wednesday, the overall AQI was 134.

Source: *The Hindu*



Air quality in Lucknow, Kanpur three times worse than Delhi

The air quality in Lucknow continued to be very poor and was,

in fact, three times worse than Delhi in the last 24 hours, according to Central Pollution Control Board (CPCB) data. The Air Quality Index (AQI) of Lucknow on Tuesday was 374 and that of Kanpur was 379 while AQI of Delhi was recorded at 106, the CPCB data showed.

Source: Hindustan Times

New Technology



REIL, EESL bag big chunk of orders for EV charging stations

State-owned Rajasthan Electronics & Instruments Ltd (REIL) and Energy Efficiency Services Ltd (EESL) have bagged a significant chunk of orders for setting up more than 2,500 e-vehicle charging stations in about 90 cities across the country

Source: Economic Times



BMW upgrades entire petrol model range in India to conform to BS VI emission norms

The automaker said it is now working to upgrade its diesel range to conform to stricter emission norms which kick in the country from April, 1 next year.

Source: Economic Times

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

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