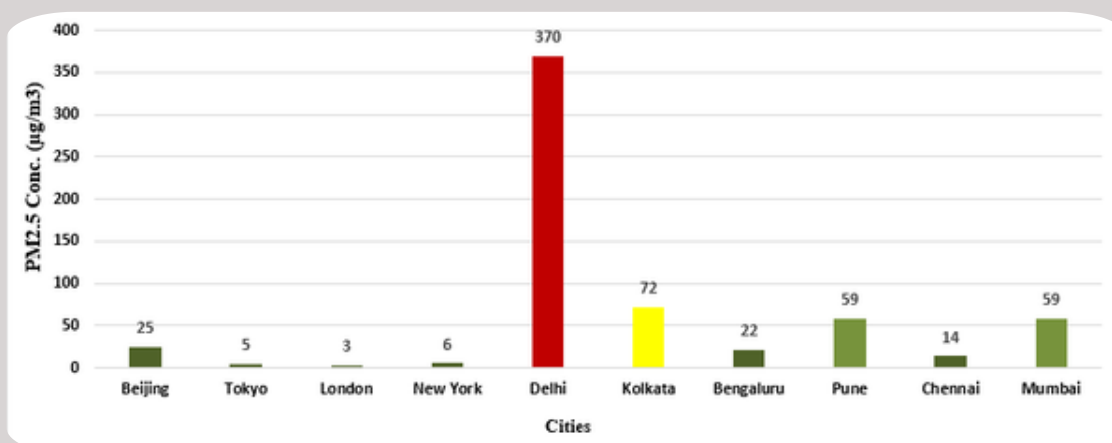


CERCA Weekly Newsletter



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

Air Quality in different cities

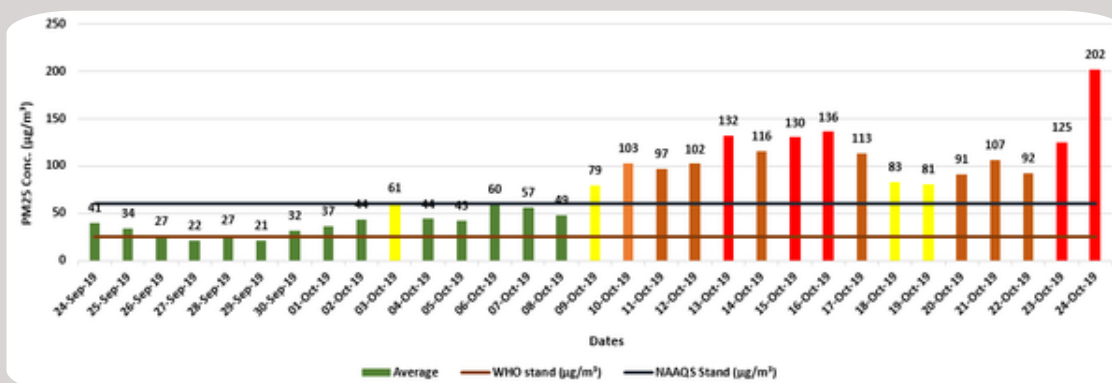


Delhi Air Quality is reaches emergency level than other cities in India and Globally.

November 15, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

Delhi air quality for last 30 days

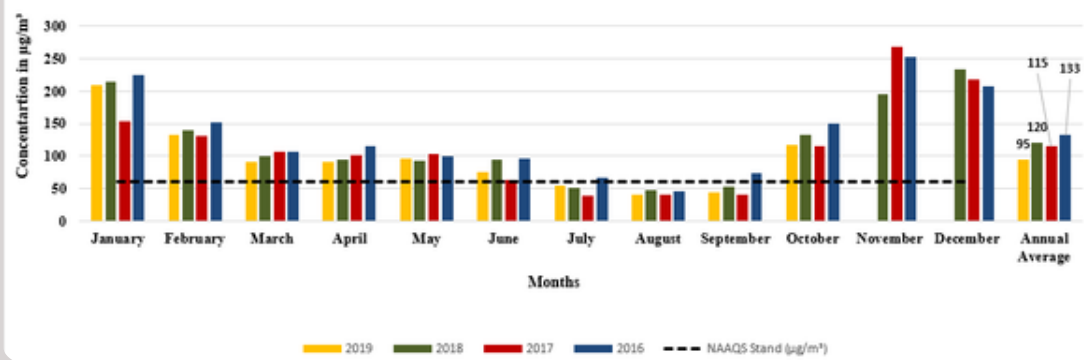


Delhi air quality has varied form 'Good/moderate' to 'very poor' for the last 30 days

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

Data Source: CPCB

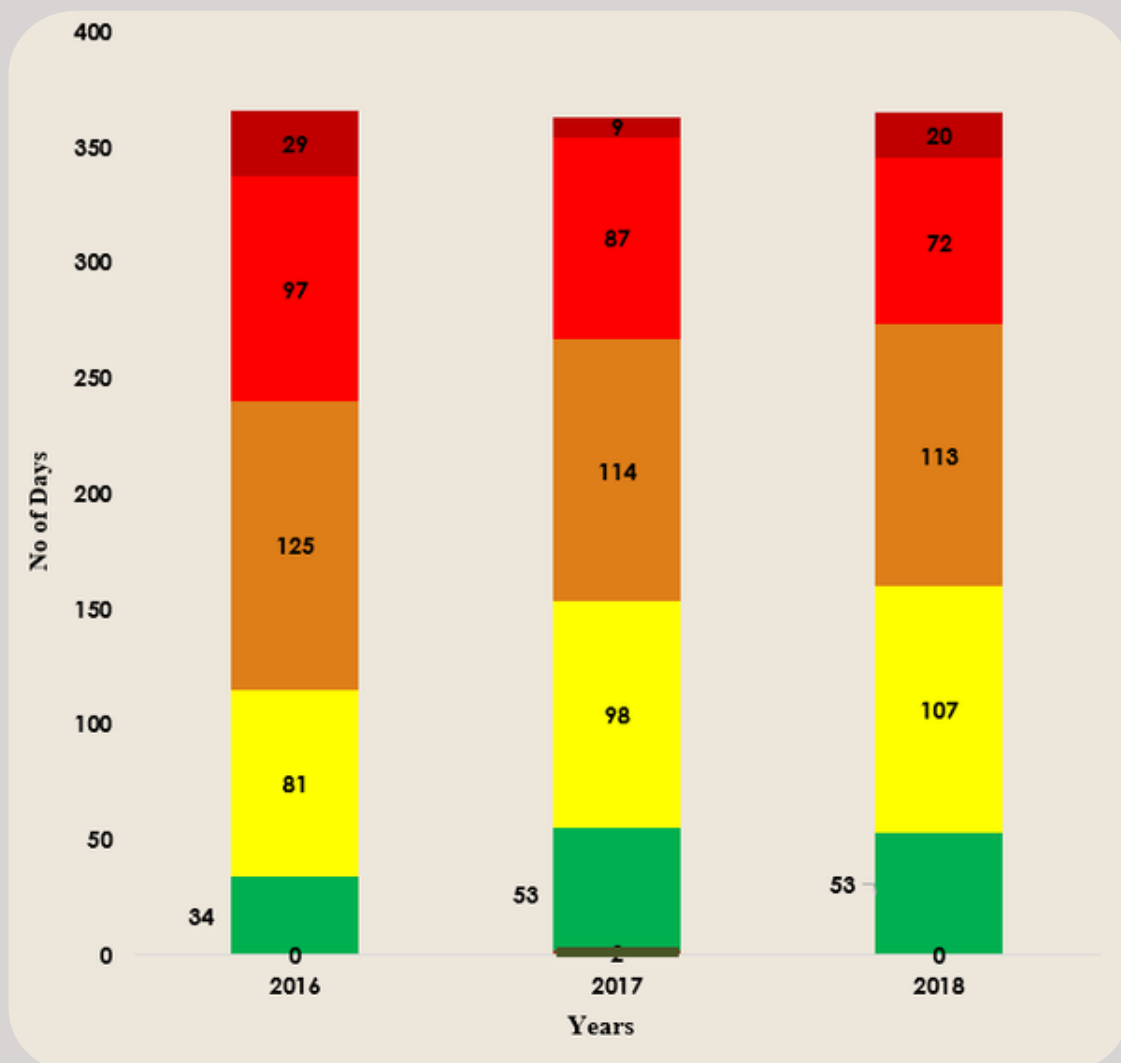
Delhi long term air quality trend



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

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

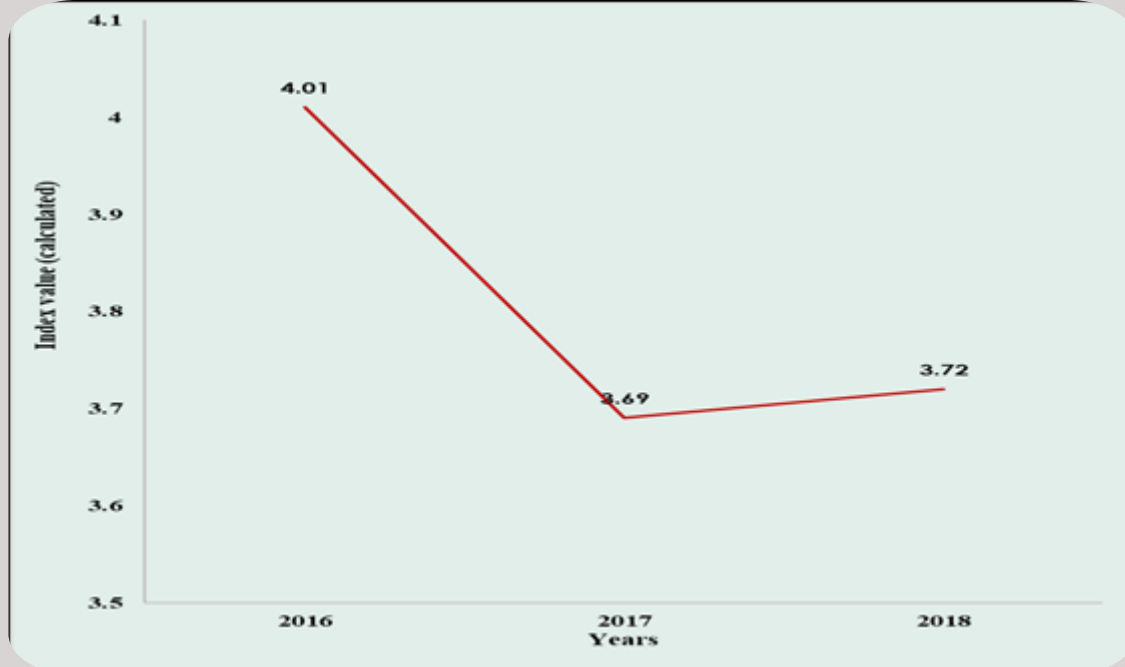
Delhi Air Quality



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)

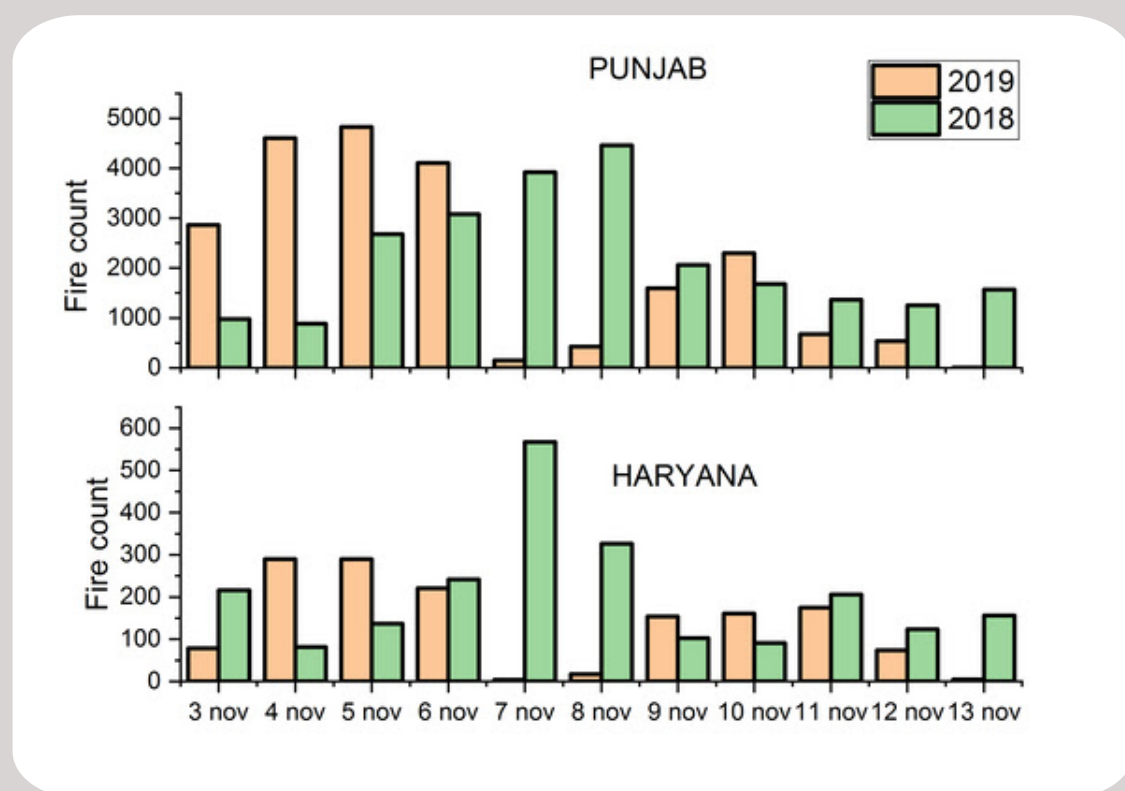
Delhi Air Quality Index



Delhi Air quality Index is derived from no of days of different air quality. The index have improved in 2017 and had worsened a little in 2018.

Data Source: Air Quality Index Data

Stubble Burning Fire Counts



The graph shows the comparison of 2018 and 2019 fire counts for Haryana and Punjab.

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



Immediate action needed in South Asia to clean the air for children.

SAir pollution is associated with one of the biggest killers of children pneumonia, and linked to asthma, bronchitis, and other respiratory infections.

Source: UNICEF

New Measures and Initiatives



Air pollution: Supreme Court-mandated anti-pollution authority orders closure of Delhi-NCR schools till November 15

The Supreme Court-mandated anti-pollution authority EPCA on Wednesday ordered schools in Delhi-NCR to be closed for the next two days as pollution in the city hovered close to emergency levels.

Source: The Hindu



Delhi government mulls ways to use crop residue

With crop stubble burning in the neighbouring states of Haryana, Punjab and Uttar Pradesh leading to high air pollution in the national capital, CM Delhi held a series of meetings in the last two days to find possible solutions for disposal of the crop residue.

Source: The Times of India

Health Impact



Air pollution nanoparticles linked to brain cancer for first time

The ultra-fine particles (UFPs) are produced by fuel burning, particularly in diesel vehicles, and higher exposures significantly increase people's chances of getting the deadly cancer.

Source: *The Guardian*



Air pollution to kill millions more people as climate crisis worsens

Climate change exacerbates air pollution by trapping the harmful particles in densely populated areas.

Source: *Financial Times*

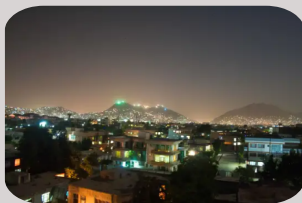
International Developments



Dutch government cuts speed limit to 100km/h to reduce air pollution

The Dutch prime minister, Mark Rutte, has taken what he has described as the rotten measure of cutting the maximum speed limit on roads in the Netherlands to 100km/h (62mph) after being ordered by the courts to cut pollution.

Source: *The Guardian*



Afghanistan Capital, Air Pollution May Be Even Deadlier Than War

In the capital, Kabul, five of his children died, not from violence or bombings, but from air pollution, worsened by bitter cold and poverty.

Source: *Xinhuanet*

New Research (study) or Policy



Air pollution in Delhi worsens to severe category

The air quality of Delhi worsened to severe category on Tuesday, with an Air Quality Index (AQI) of 413 at 8.30 a.m., according to the Central Pollution Control Board (CPCB).



IIT-Delhi predicted pollution spike a month ago

The Indian Institute of Technology (IIT), Delhi, in its bimonthly forecast meant to allow authorities to prepare an effective action plan to combat air pollution in the national capital, warned the Union and Delhi governments in the first week of October that an increase in stubble-burning would push the air quality in the region to hazardous levels between November 1 and November 15.

Source: Hindustan Times

New Technology



MG Motor to roll out affordable EV in 3-4 yrs, to set up battery unit here

MG Motor India will bring in an affordable electric vehicle in three to four years.

Source:Economic Times



Maruti Suzuki-Toyota joint venture to recycle cars

Maruti SuzukiNSE 0.43 % and Toyota Tsusho Group on Wednesday announced an equal joint venture, Maruti Suzuki Toyotsu India (MSTI), for vehicle dismantling and recycling. The venture will set up its vehicle dismantling and recycling unit in Noida in 2020-21 and will add more units.

Source:Economic Times

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

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