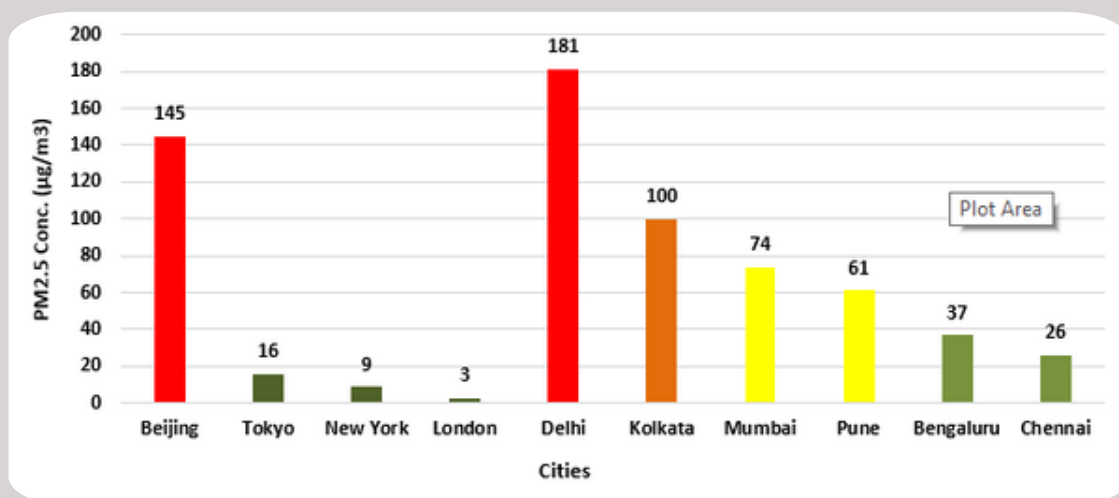


## CERCA Weekly Newsletter



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

### Air Quality in different cities

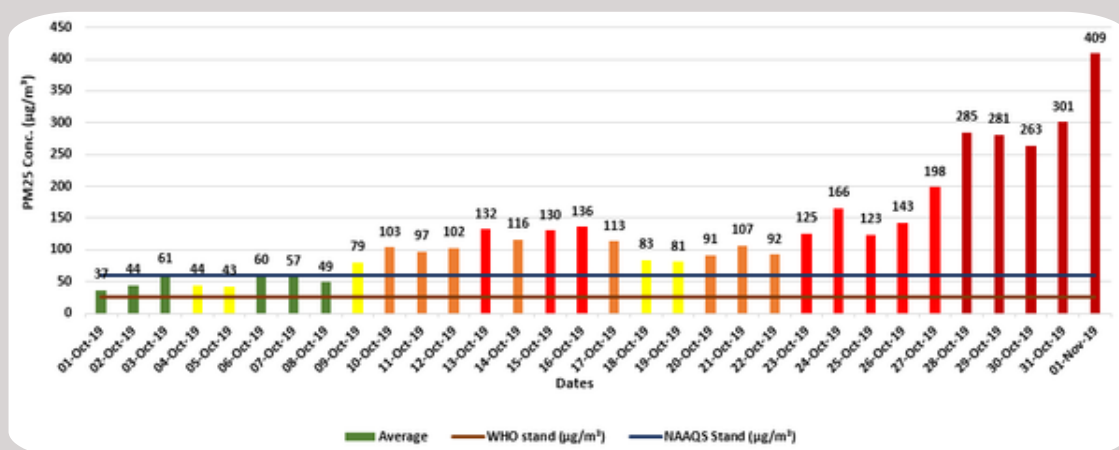


Delhi Air Quality is very poor in comparison to other cities in India and Globally.

November 22, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

### Delhi air quality for last 30 days

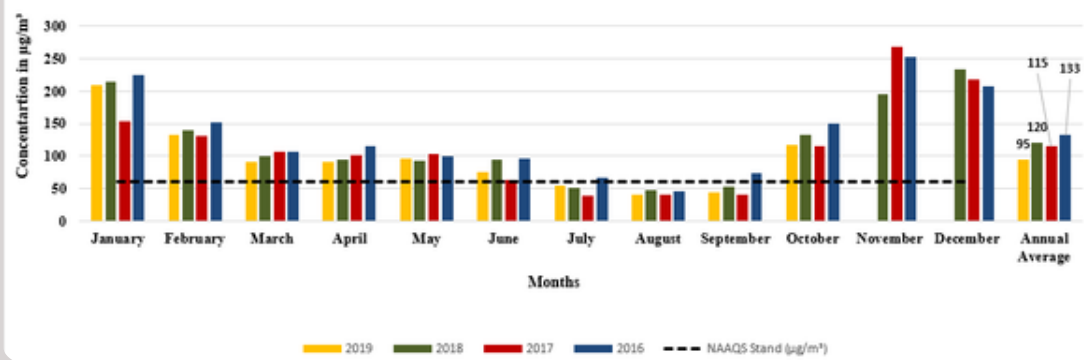


Delhi air quality has shifted from 'Good/moderate' to 'severe' for the last 30 days

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

Data Source: CPCB

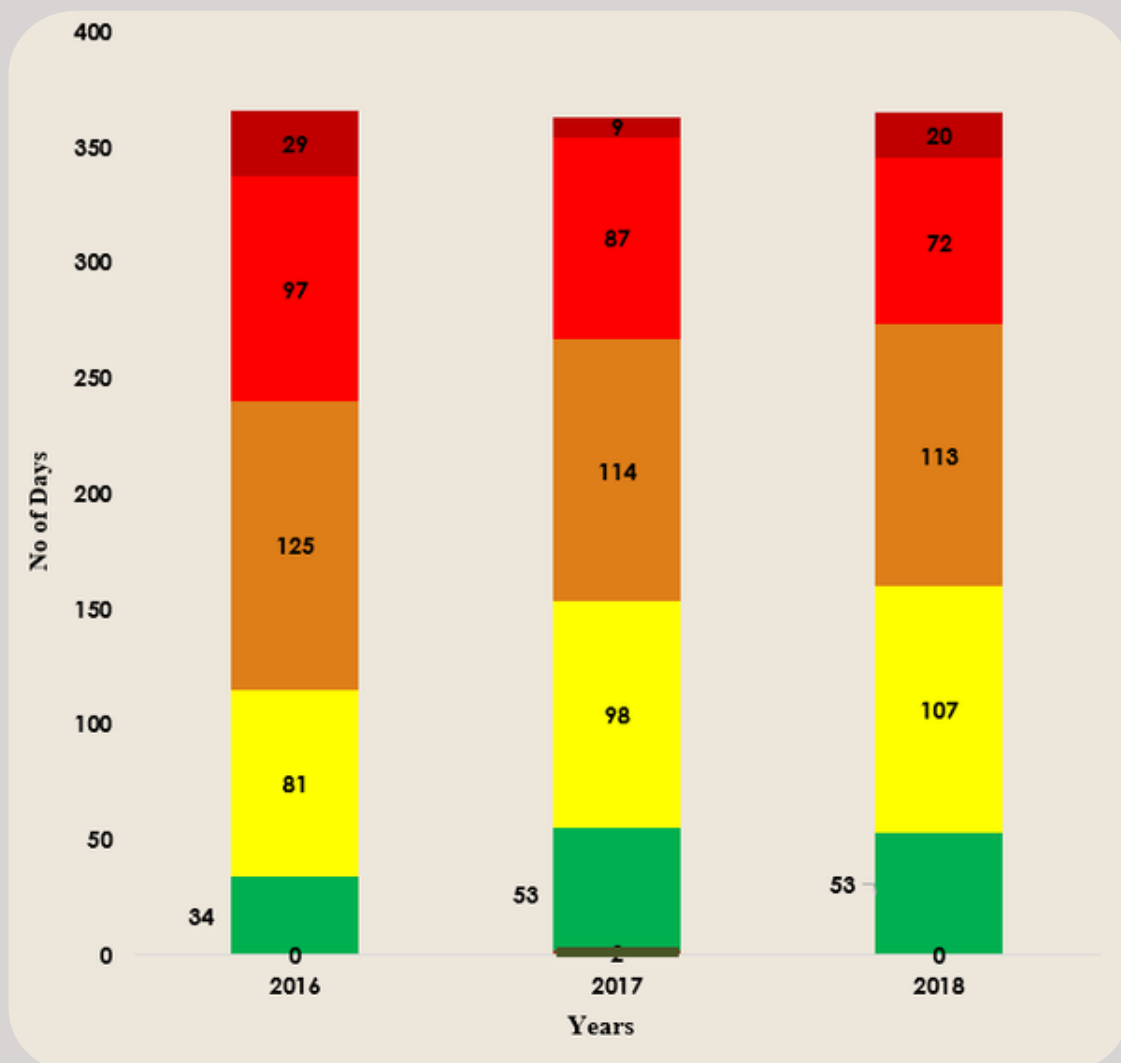
### Delhi long term air quality trend



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

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

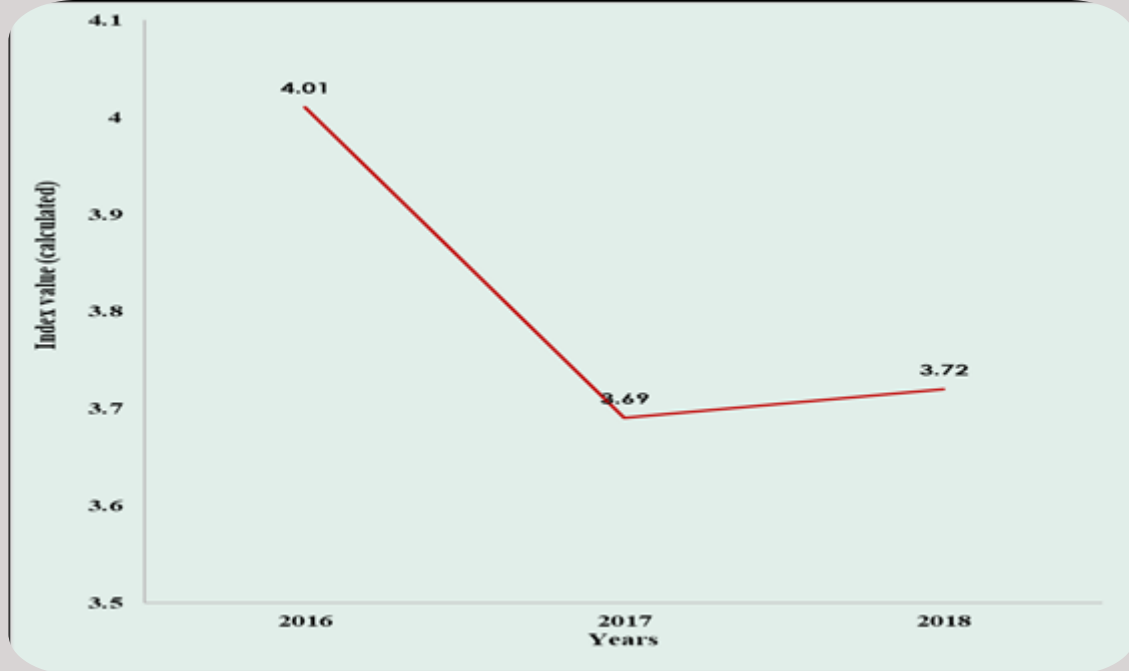
## Delhi Air Quality



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)

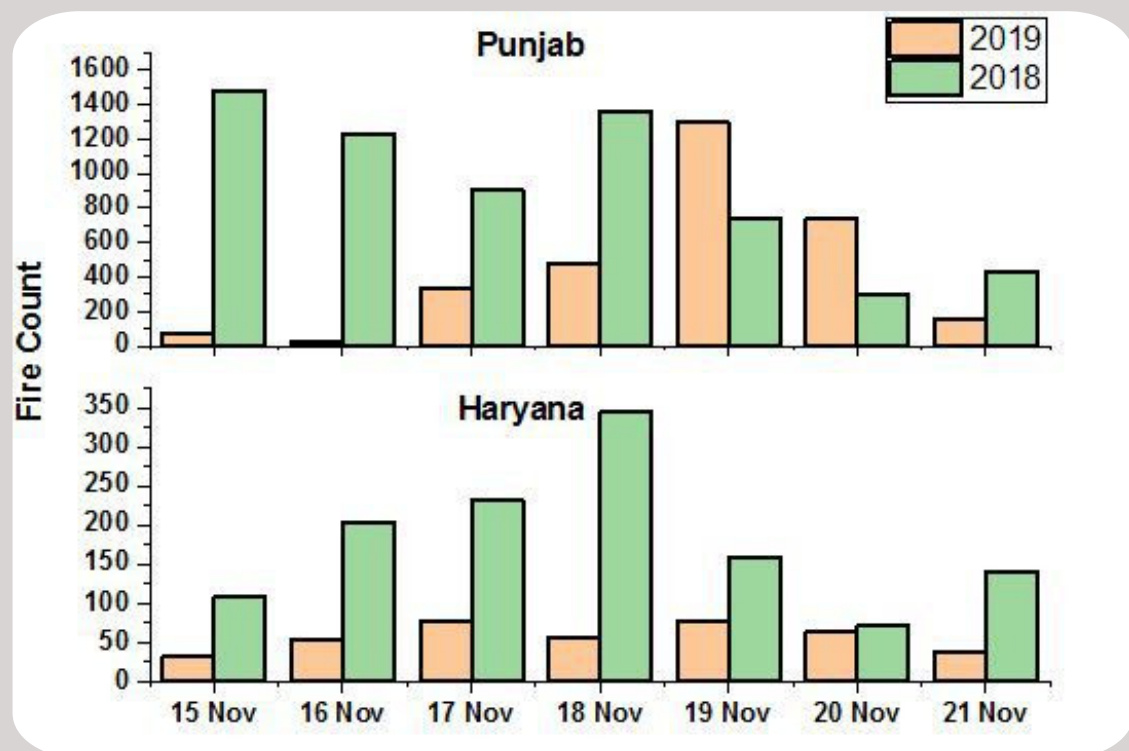
## Delhi Air Quality Index



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                                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Good<br/>(0–50)</b>           | Minimal Impact                                                                                                                                                                                |
| <b>Satisfactory<br/>(51–100)</b> | May cause minor breathing discomfort to sensitive people                                                                                                                                      |
| <b>Moderate<br/>(101–200)</b>    | May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease, children and older adults                                          |
| <b>Poor<br/>(201–300)</b>        | May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure                                                                |
| <b>Very Poor<br/>(301–400)</b>   | May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases                                                       |
| <b>Severe<br/>(401–500)</b>      | 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



### Parliament proceedings: To discuss the impact of air pollution

Both the Houses, Bharatiya Janata Party leader Vijay Goel and Arvind Kejriwal-led Aam Aadmi Party discussed air pollution in Delhi, where air quality has plummeted to hazardous levels in recent weeks.

Source: The Hindu



### India, U.K. scientists collaborate on clean air solutions for Delhi

Atmospheric scientists from the U.K. and India have partnered to tackle chronic air pollution, which is impacting the health of more than 20 million people in Delhi.

Source: The Hindu

## Health Impact

### Deadly air pollution may cut 17 years from a



## **Delhiite's life**

At present, residents of Delhi are breathing about 25 times more toxic air (as on November 19) than the permissible limit according to World Health Organization (WHO) guidelines.

*Source: India Today*



## **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**



## **Tens of thousands of deaths linked to weak US air pollution rules study**

US air pollution rules could be hugely insufficient in preventing deaths, experts are concluding from a new study of the likely causes of death of 4.5 million veterans.

*Source: The Guardian*



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

NSW Health issued a bushfire 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 surrounded by critically polluted industrial clusters, finds CPCB study**

Assessments by the Central Pollution Control Board (CPCB) suggest the national capital is home to and surrounded by critically polluted industrial clusters that do not meet air, water or soil pollution parameters, contributing to the city's grimy air and poor water quality.

*Source: The Hindustan Times*



## **Pollution worsens in Capital as wind speed slows down**

Levels of air pollution began inching back up again on Wednesday, re-entering the “very poor” category as smoke from farm fires from Punjab and Haryana drifted back in and winds speed dropped, a set of exacerbating factors that is likely to persist and potentially push the air quality into “severe” levels

Source: Hindustan Times

## **New Technology**



## **E-bus suppliers quote high prices for tenders under FAME II scheme**

Owing to payment security risks in states with weaker transport departments and tough bidding conditions, Electric bus suppliers in various states are quoting higher prices in tenders

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/>**

## **CONTACT US**

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