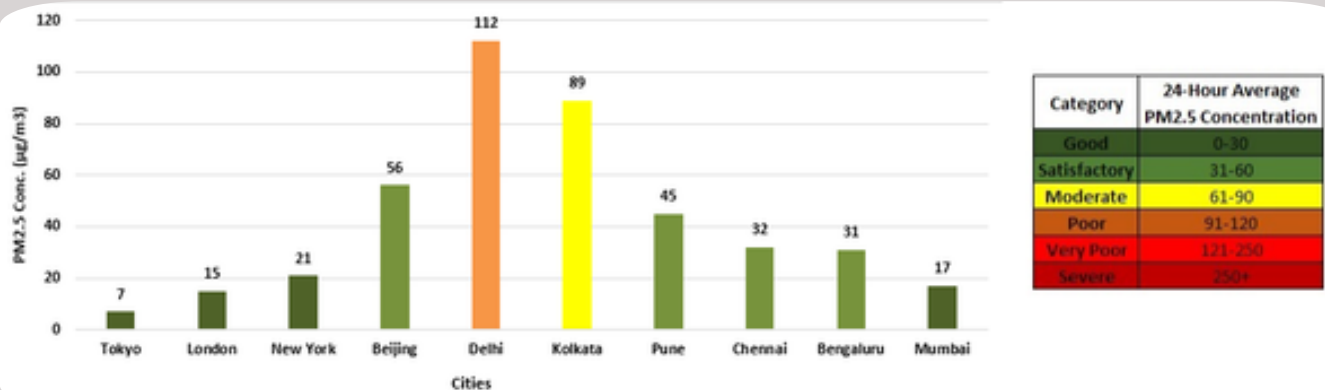


CERCA Weekly Newsletter



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

Air Quality in Different Cities

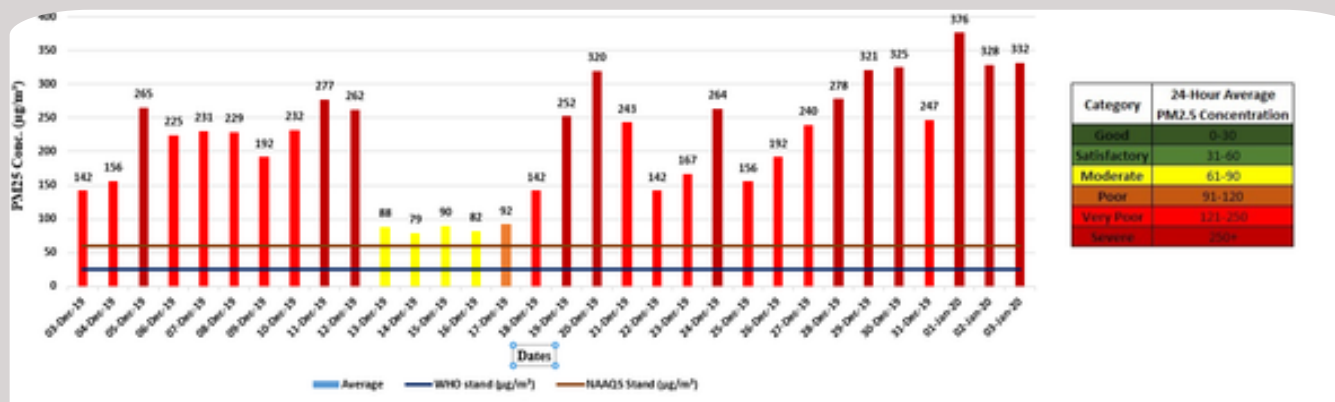


January 24, 2020, 11:00-12:00 IST (Hourly Average)

Sunlight, faster winds improve air quality in Delhi

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)

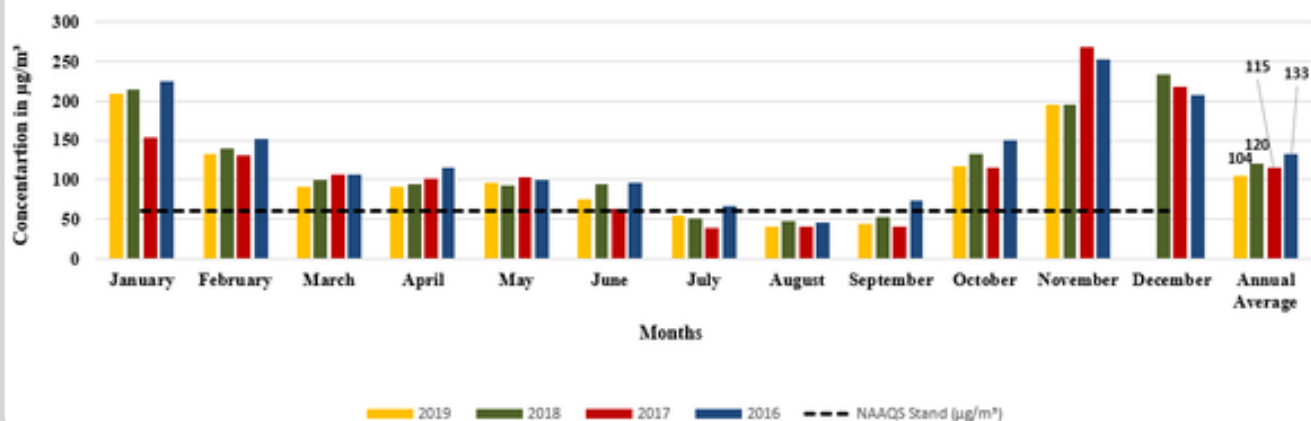
* WHO - World Health Organization

* NAAQS - National Ambient Air Quality Standards

During the last 30 days, Delhi Air Quality was in "Very Poor to severe" 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)

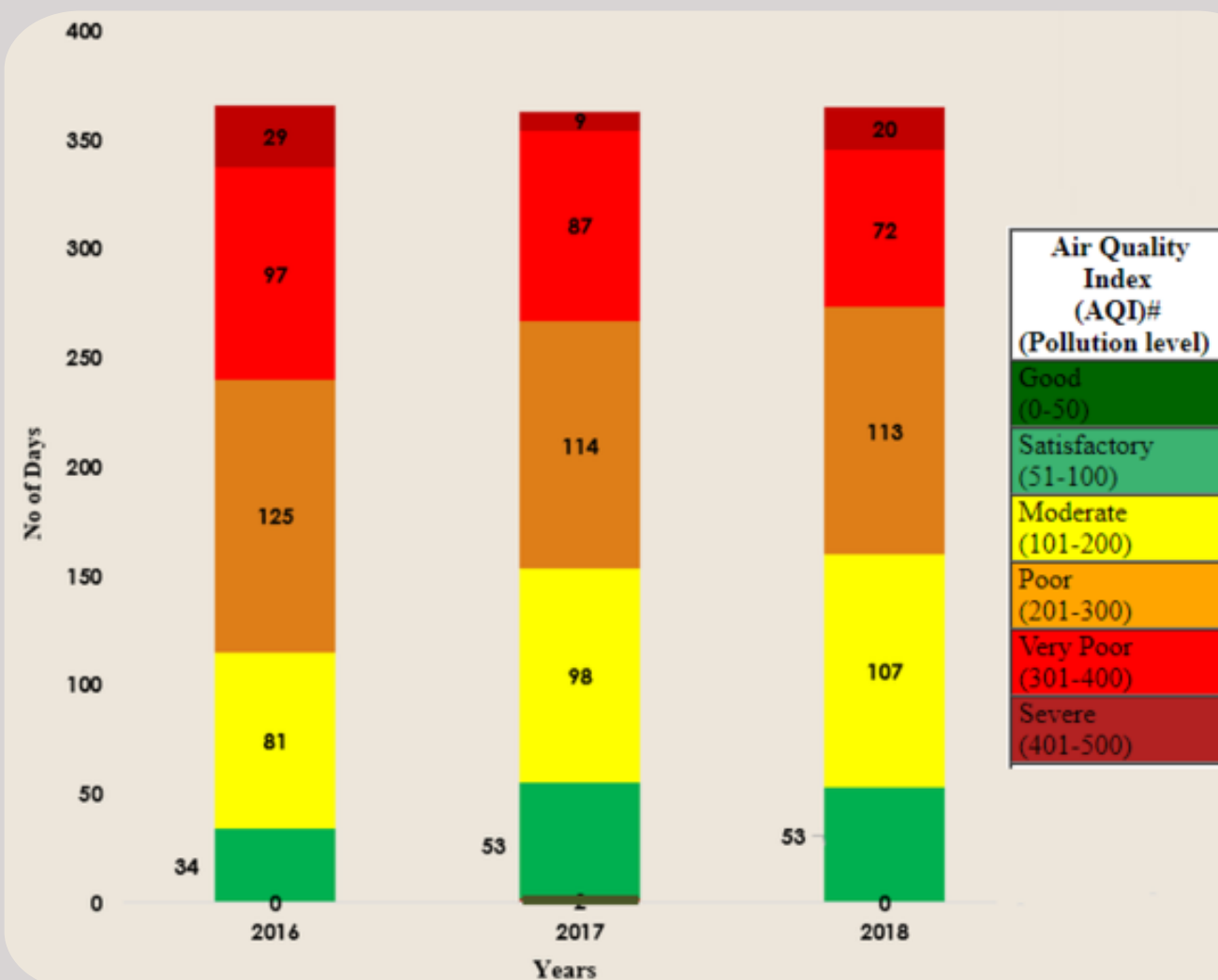
Note: Data for 2019 has been considered till the month of November 2019 only

* 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: NY Times

Air Pollution, Evolution, and the Fate of Billions of Humans

It's not just a modern problem. Airborne toxins are so pernicious that they may have shaped our DNA over millions of years.

New Measures and Initiatives



Source: The Hindu

Punjab govt. to ban 15-year-old autorickshaws

Department of Environment and Climate Change to ensure their replacement with electric, CNG vehicles.



Source: The Hindu

No effective steps taken to check industrial pollution in Malegaon: NGT

The National Green Tribunal on Thursday said the Malegaon administration has failed to take effective steps for closure of polluting industries and sought a status report on the issue.

Health Impact

cognitive difficulties in children

Children with elevated exposure to early life stress in the home and elevated prenatal exposure to air pollution exhibited heightened symptoms of attention and thought problems, according to researchers.

Source: Science Daily



Source: The Lighthouse

International Developments

Outlook

Australia in 'uncharted territory' with long-term health impacts of air pollution

One of Australia's leading lung cancer specialists says we could see a potential spike in lung cancer in coming decades, particularly if poor air quality persists.

Air pollution in New York City linked to wildfires hundreds of miles away

A new study shows that air pollutants from the smoke of fires from as far as Canada and the southeastern U.S. traveled hundreds of miles and several days to reach Connecticut and New York City, where it caused significant increases in pollution concentrations.

Source: Science Daily

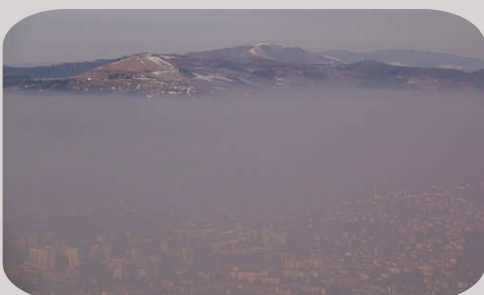


Source: The Verge

Wildfire smoke forced tennis players to withdraw from Australian Open matches

Athletes at the Australian Open are breathing in poor-quality air polluted by bushfire smoke, making it nearly impossible for them to do their jobs.

New Research (study) or Policy



Six of India's 10 most polluted cities in UP, Jharkhand, as Jharia tops list

Noida, Ghaziabad, Bareilly, Allahabad, Moradabad and Firozabad in Uttar Pradesh figure in list of 10 most polluted cities topped by Jharia in Jharkhand and closely followed by Dhanbad in the same state.

Source: Hindustan Times



Air pollution could kill 160,000 in next decade - report

The British Heart Foundation (BHF), which compiled the figures, said there are an estimated 11,000 deaths per year at the moment, but that this will rise as the population continues to age. It wants the UK to adopt World Health Organization (WHO) guidelines on air pollution and meet them by 2030.

Source: Guardian

New Technology



Source: The Economic Times



Niti Aayog seeks Cabinet nod for battery push

The Niti Aayog has sought Cabinet approval for a proposal to build up to 10 large factories that would get subsidies to produce lithium-ion batteries used in electric vehicles.

PMI Electro and BYD-Olectra bag most e-bus orders

Did you know that your biggest daily exposure to air pollutants comes while driving to work? A recent study from the University of California gives tips on how to best clean the air inside your car.

Source: Occupational Health and Safety (OH&S)

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