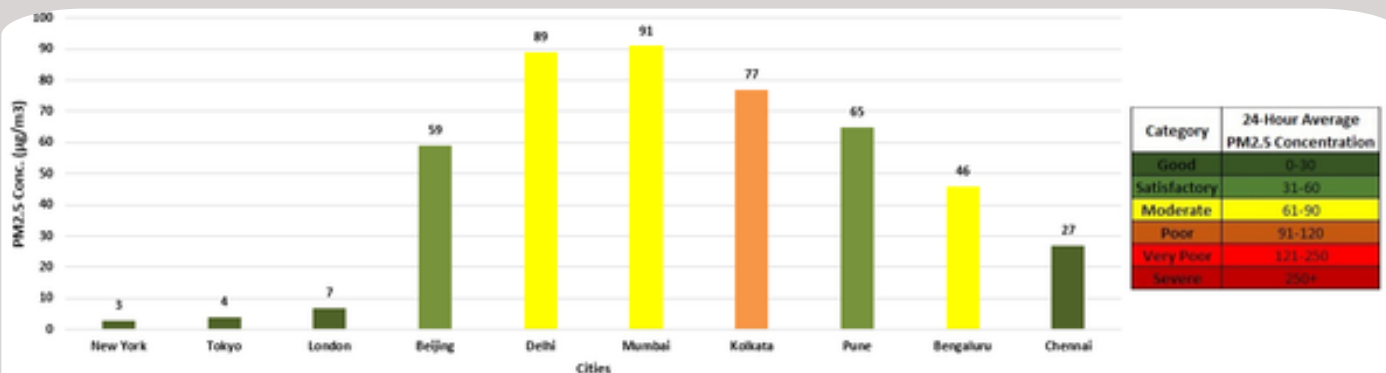


CERCA Weekly Newsletter



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

Air Quality in Different Cities

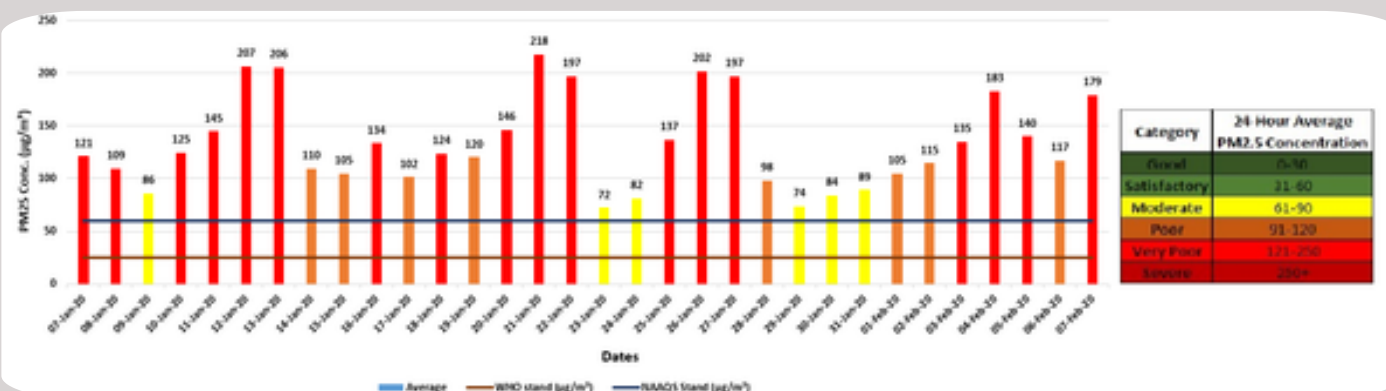


February 28, 2020, 11:00-12:00 IST (Hourly Average)

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)

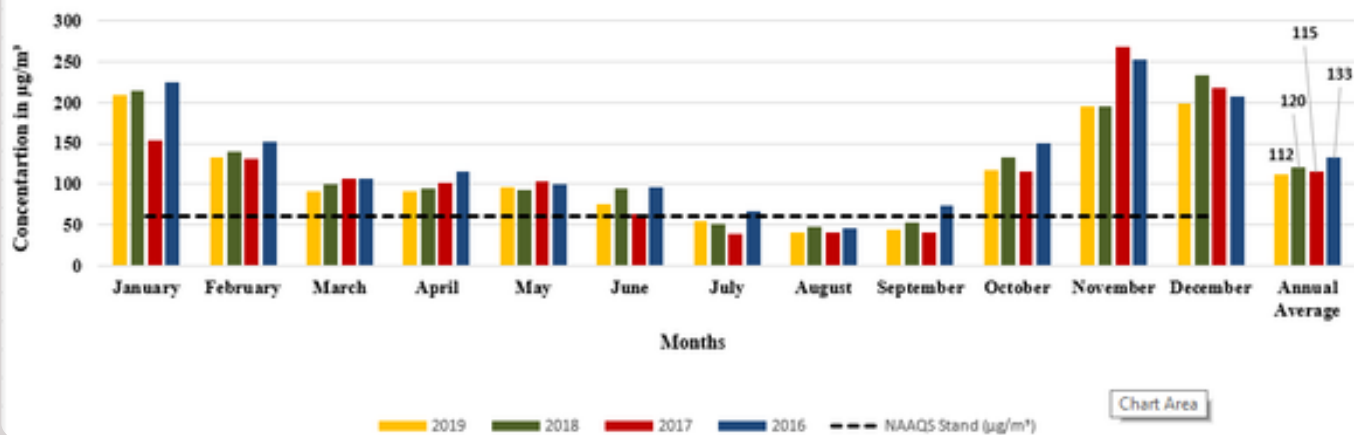
* WHO - World Health Organization

* 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)

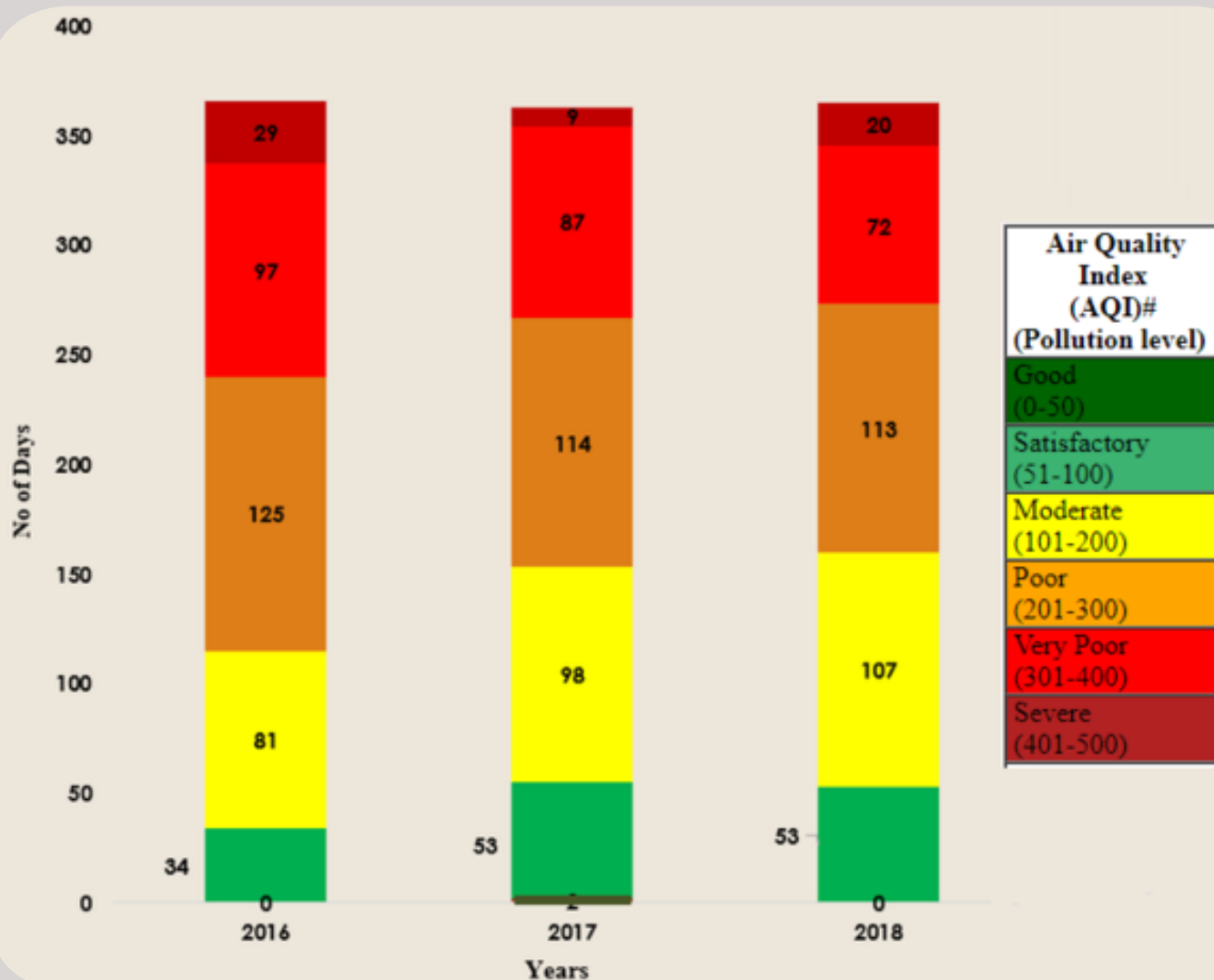
Note: Data for 2019 has been considered till the month of December 2019 only

* 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: Business Line

Reducing air pollution requires political will

A mass revolution of sorts it required, demanding from the government that it takes necessary steps to provide its citizens better quality of air to breathe.

New Measures and Initiatives



AAP govt. for 3-level action plan to curb air pollution

TEnvironment Minister Gopal Rai on Thursday said the government will come up with three-level action plan **??** five-year plan, one-year plan and winter plan **??** to fight air pollution in the city.

Source: The Hindu

12 cities to get new air quality monitoring stations



Source: India Today

Health Impact



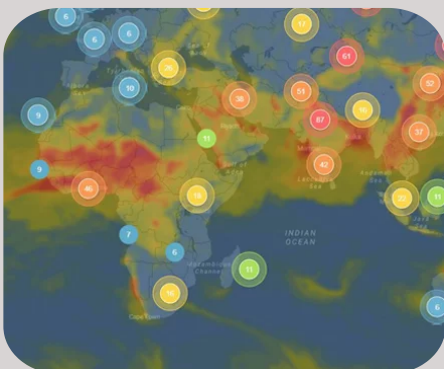
Photo credit: Financial Express

Source: Daily Sabah World



Source: CNN Health

International Developments



Source: Energy live News

State-run generation utility NTPC will help Central Pollution Control Board (CPCB) set up 25 continuous ambient air quality monitoring stations (CAAQMS) across six states and three Union Territories.

Children's health, future in great danger globally, UN says

The world is failing to protect children from the health dangers posed by climate change and air pollution, a landmark U.N. report commissioned by the World Health Organization (WHO) and UNICEF

Even short-term exposure to low levels of air pollution can increase risk of cardiac arrest

Short-term exposure to air pollution is linked to a higher risk of sudden heart problems, especially among older people, according to a study.

UN launches worlds largest platform for air quality data

The UN Environment Programme (UNEP) has launched what is claimed to be the worlds largest air quality data platform that is expected to enable businesses to make investment decisions that promote a cleaner, greener environment.

New York Has Highest Number of Premature Deaths from Out-of-State Air Pollution



Source: Democracy Now

A major new study on air pollution found that New York state has the largest number of premature deaths from out-of-state pollution.

New Research (study) or Policy



Source: Hindustan Times

Delhi remains worlds most polluted capital, says study

Two-thirds of the worlds most polluted cities are in India and Delhi has the worst air among all national capitals, according to a new study of air quality readings from 98 countries.



Source: Times of India

NCAP can't drive change unless data, reporting issues are fixed

Manual monitors require at least 104 days of monitoring. But an assessment by a New Delhi-based thinktank of the latest available manual data for all cities shows that as much as 73% of monitoring stations do not meet this requirement.

New Technology



Source: The Economic Times

NHAI to use three anti-smog guns to control dust pollution on NH-9

To combat the air pollution, caused mainly by ongoing construction work, the National Highways Authority of India (NHAI) has decided to use three anti-smog guns at the under-construction sections of the Delhi-Meerut Expressway (DME).

EESL, BSNL in MoU for 1000 public EV charging stations



Energy Efficiency Services Ltd (EESL) on Tuesday said it has signed a memorandum of understanding with Bharat Sanchar Nigam Ltd (BSNL) for installation of 1,000 public charging stations for electric vehicles.

Source: *The Economic Times*

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

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