

CERCA Weekly Newsletter

August 09, 2019

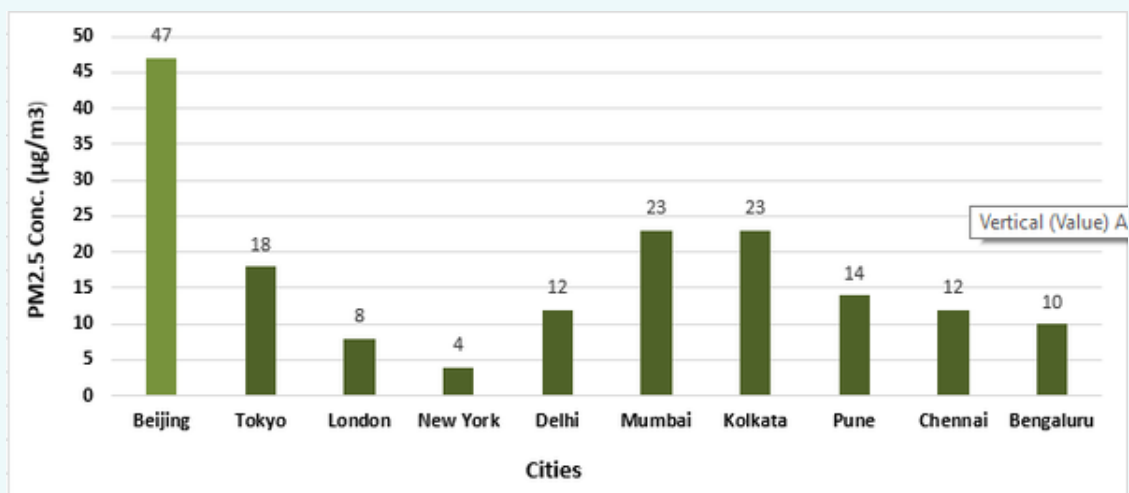
Centre of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi



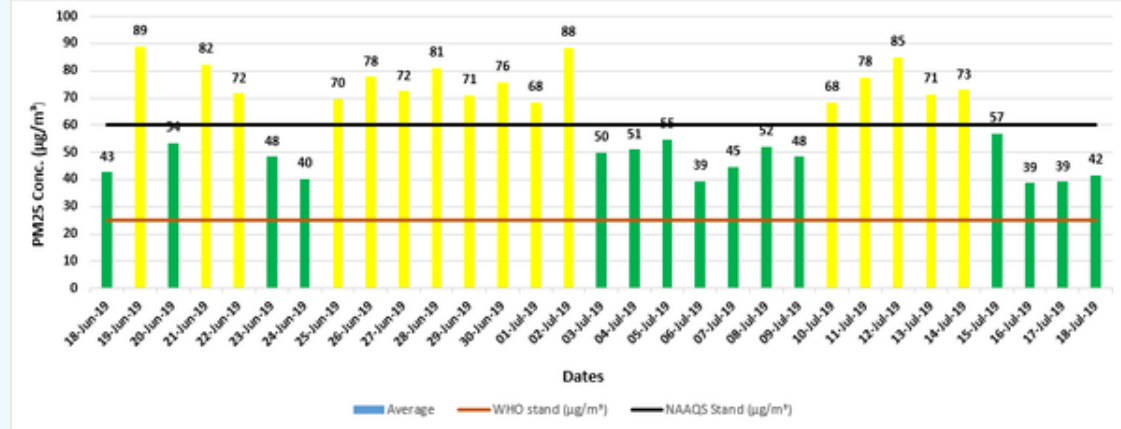
Air Quality in different cities



August 08, 2109, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

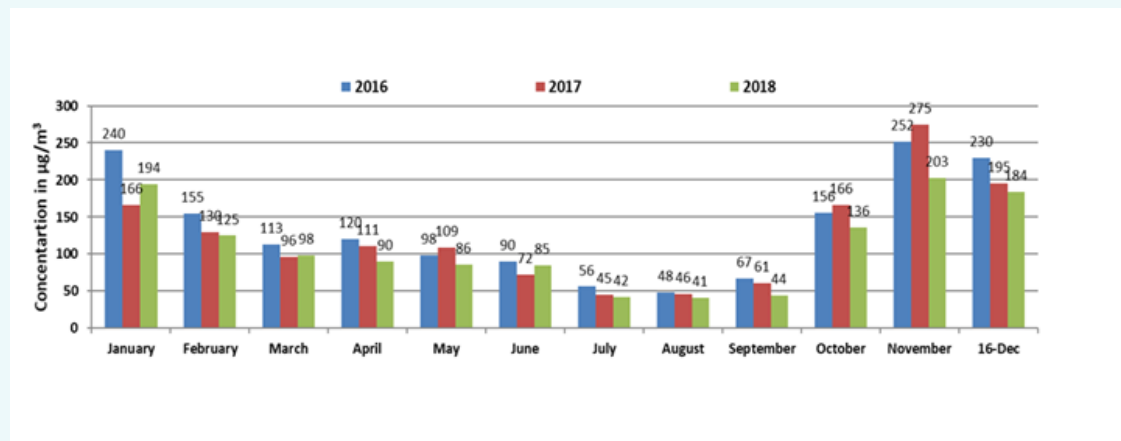
Delhi air quality for last 30 days



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

Data Source: CPCB

Delhi long term air quality trend



About 18 % decrease in PM2.5 levels in October, about 26 % in November and about 6 % in December 2018 in comparison to corresponding months in 2017 have been observed.

Air quality health impacts

Air quality	AQI Category (range)	PM2.5 24-hr (range)	Likely Health Impacts
Good	0-50	0-30	Minimal Impact
Satisfactory	51-100	31-60	May cause minor breathing discomfort to sensitive people
Moderately polluted	101-200	61-90	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	91-120	May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure
Very Poor	301-400	121-250	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	250+	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

Keeping air pollution policies on track

<https://science.sciencemag.org/content/365/6451/322>

Source: AAAS & Guardian

New Measures and Initiatives

Happy Seeder machines help reduce air pollution

Researchers have found a non-burning alternative for farmers to reduce air pollution.

<https://timesofindia.indiatimes.com/business/india-business/happy-seeder-machines-help-reduce-air-pollution-more-profitable-for-farmers-research/articleshow/70590861.cms>

Source: The Times Of India

UK and India launch joint clean air research initiative

The UK and India have launched a joint research initiative to drive forward the countries' pursuit of clean air.

<http://www.newindianexpress.com/cities/bengaluru/2019/aug/01/india-uk-initiative-to-launch-unique-air-quality-measurement-system-2012486.html/>

Source: The Indian Express

Health Impact

Hitting clean air targets 'could stop 67,000 child asthma cases a year

Almost 67,000 new cases of asthma in children across 18 European countries could be prevented every year if levels of tiny particulates polluting the air are cut to recommended levels.

<https://www.theguardian.com/environment/2019/aug/08/hitting-clean-air-targets-could-stop-67000-child-asthma-cases-a-year>

Source: *The Guardian*

Air Pollution Big Health Concern for the US

Air quality in the US may be linked with increased mortality and reduced life expectancy according to new research.

<https://www.technologynetworks.com/applied-sciences/news/air-pollution-big-health-concern-for-the-us-322213>

Source: *Technology Networks*

International Developments

Pakistan works with India to set up real-time air quality monitors.

A citizen science collaboration by air pollution researchers from UrbanSciences in Mumbai and Pakistan Air Quality (PakAirQuality) Initiative in Islamabad is providing open data in Pakistan for citizens to get timely updates on air pollution across several major cities.

<https://www.hindustantimes.com/cities/pakistan-works-with-india-to-get-air-quality-monitors/story-udFjR143uXVcz8Cwd2AUhl.html>

Source: *Hindustan Times*

Air pollutants from South Asia linked to glaciers melting

Atmospheric pollution has accelerated the glaciers melting in the world's Third Pole which covers the Tibetan Plateau and surroundings, as high levels of air pollutants are extending from South Asia.

<http://www.globaltimes.cn/content/1159909.shtml>

Source: *Global Times*

New Research (study) or Policy

Relationship Between Air Pollution & Global Warming

Fears that efforts to reduce air pollution could dramatically speed up the process of global warming may be unfounded, according to a study.

<https://www.firstpost.com/tech/science/a-new-study-finds-the-relationship-between-air-pollution-and-global-warming-7110661.html>

Source: *First Post*

Small pollutants in Mumbai's air 5 times more than WHO limit: Study

Mumbai recorded an annual average of 51.8 micrograms per cubic metre ($\mu\text{g}/\text{m}^3$) against the international safe limit of $10\mu\text{g}/\text{m}^3$, while the safe limit for India set by CPCB is $40\mu\text{g}/\text{m}^3$, according to a pollutant concentration and emission inventory study.

Source: *Hindustan Times*

New Technology

Mahindra & Mahindra plans to roll out three new electric vehicles

Welcoming the government's push for electric vehicles, Mahindra said, "we have a long engagement with EVs. We are fully future ready.

<https://economictimes.indiatimes.com/industry/auto/auto-news/mahindra-mahindra-plans-to-roll-out-three-new-electric-vehicles/articleshow/70576078.cms>

Source: *Economic Times*

India has potential to be a global EV hub: Anand Mahindra

Mahindra Group chairman Anand Mahindra called out for a joint collaboration between industry and government to carve out a future roadmap for EVs.

<https://economictimes.indiatimes.com/industry/auto/auto-news/india-has-potential-to-be-a-global-ev-hub-anand-mahindra/videoshow/70575480.cms>

Source: *Economic Times*

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

CONTACT US

Coordinator

Prof. Sagnik Dey
Indian Institute of Technology Delhi

Email: cerca@iitd.ac.in

Co-Coordinator

Dr. Nimesh Bolia
Indian Institute of Technology Delhi

Phone: +91 (11) 2659 7361

Copyright © 2019 CERCA, IIT Delhi