

CERCA Weekly Newsletter

August 16, 2019

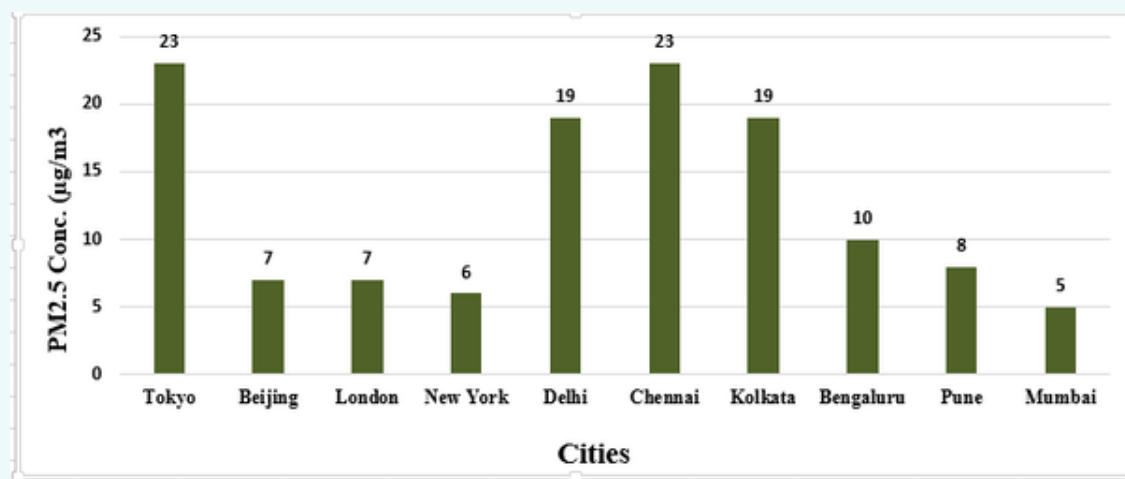
Centre of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi



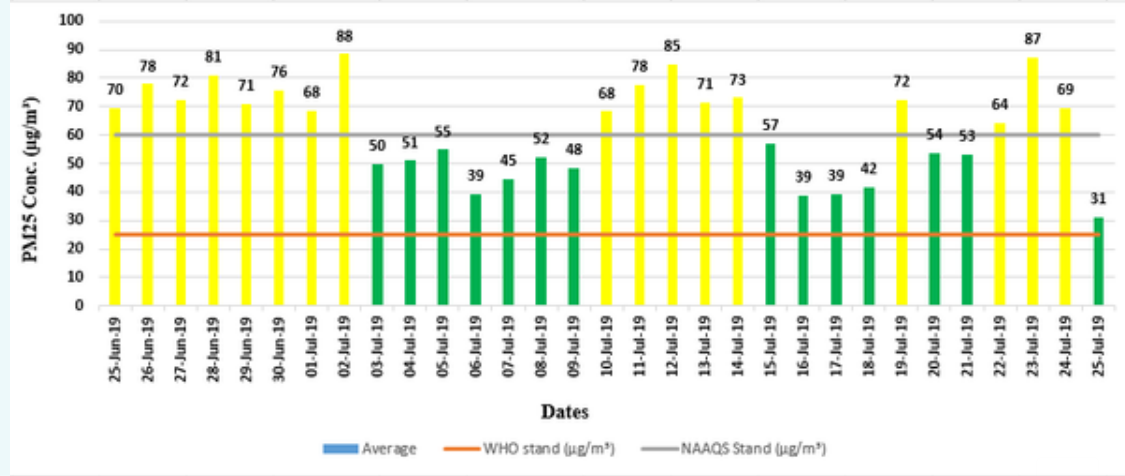
Air Quality in different cities



August 16, 2109, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

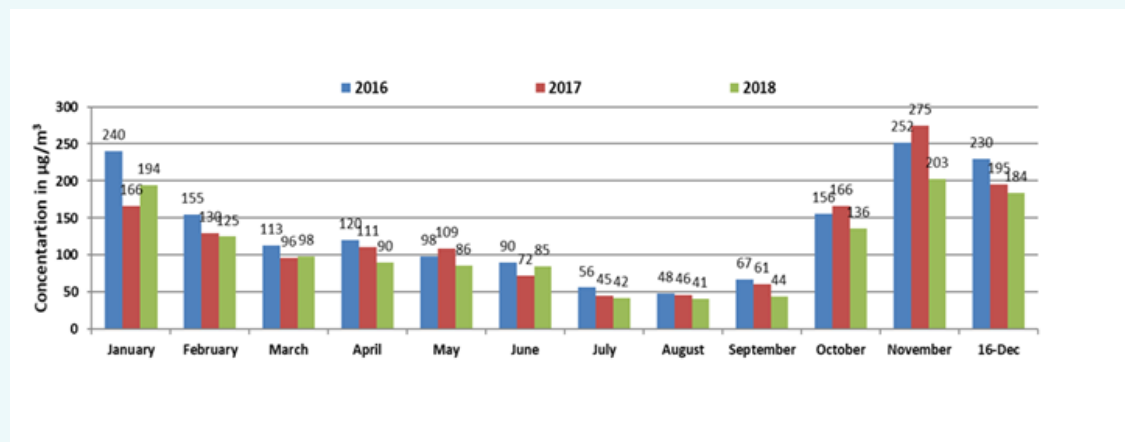
Delhi air quality for last 30 days



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

[How to Reduce Exposure to Air Pollution](#)

<https://www.nytimes.com/2019/08/13/well/live/how-to-reduce-exposure-to-air-pollution.html>

Source: The New York Times & Guardian

New Measures and Initiatives

[Air pollution due to crop burning set to fall this year](#)

Air pollution due to crop burning in north India is set to fall sharply this year because of extensive use of technology to chop off farm stubble and mix it with the soil to make it more nutrient-rich, the Indian Council of Agriculture Research (ICAR) said .

<https://economictimes.indiatimes.com/news/politics-and-nation/air-pollution-due-to-crop-burning-set-to-fall-this-year/articleshow/70668372.cms>

Source: The Economic Times

[Govt set to dilute 3.5-year-old air pollution norms for thermal plants](#)

Three and a half years after they were first notified, the government is set to partially dilute air pollution standards for thermal power plants.

https://www.business-standard.com/article/economy-policy/powermin-wants-to-dilute-3-5-year-old-pollution-norms-for-thermal-plants-119081200721_1.html/

Health Impact

[Study finds link between long-term exposure to air pollution and emphysema](#)

Long-term exposure to air pollution was linked to increases in emphysema between 2000 and 2018, according to a new study funded by the NIEHS and the NHLBI.

<https://www.nih.gov/news-events/news-releases/study-finds-link-between-long-term-exposure-air-pollution-emphysema>

Source: NIH

[Impact of air pollution is like smoking 5-7 cigarettes a day](#)

The harmful impact of air pollution suffered by everyone in the country, including newborns, is equivalent to smoking five to seven cigarettes a day on an average.

<https://www.thehindu.com/news/cities/Delhi/impact-of-air-pollution-is-like-smoking-5-7-cigarettes-a-day/article28986291.ece>

Source: The Hindu

International Developments

[Emissions test app launched to boost control over air pollution.](#)

The Jakarta city administration has introduced an emission test mobile application to improve the monitoring of fuel combustion effectiveness and of pollutants emitted in a vehicle's exhaust.

<https://www.thejakartapost.com/news/2019/08/13/emission-test-app-launched-to-boost-control-over-air-pollution.html>

Source: The Jakarta Post

[Mexico installs 'robotic trees' to tackle air pollution](#)

In the central-southern Mexican city of Puebla, a start-up has installed "robotic trees" who suck up as much air pollution as 368 real trees, using micro algae in their towering metal structure.

<https://www.france24.com/en/20190815-environment-science-mexico-robotic-trees-air-pollution-biourban-biomitech-puebla/>

Source: The Mercury News

[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

[CII's Crop Residue Management Project Shows Sustainable Solutions to Air Pollution](#)

According to a report released by Confederation of Indian Industry (CII), nearly 25 thousand tonne rice straw was recycled back into the soil in 2018 and 115 tonne fine particulate matter (PM2.5) was saved from being released into the air.

https://www.business-standard.com/article/news-cm/cii-s-crop-residue-management-project-shows-sustainable-solutions-to-air-pollution-119081300123_1.html

Source: Business Standard

New Technology

[Electric cars solution to air pollution'](#)

Minister for science and technology Michael Lobo said that air pollution had become a major concern in most developing countries due to the increasing number of petrol and diesel -operated vehicles .

<https://timesofindia.indiatimes.com/city/goa/electric-cars-solution-to-air-pollution/articleshow/70667023.cms>

Source: Times of India

[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 road map 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. Nomesh Bolia
Indian Institute of Technology Delhi

Phone: +91 (11) 2659 7361

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