

CERCA Weekly Newsletter

April 26, 2019

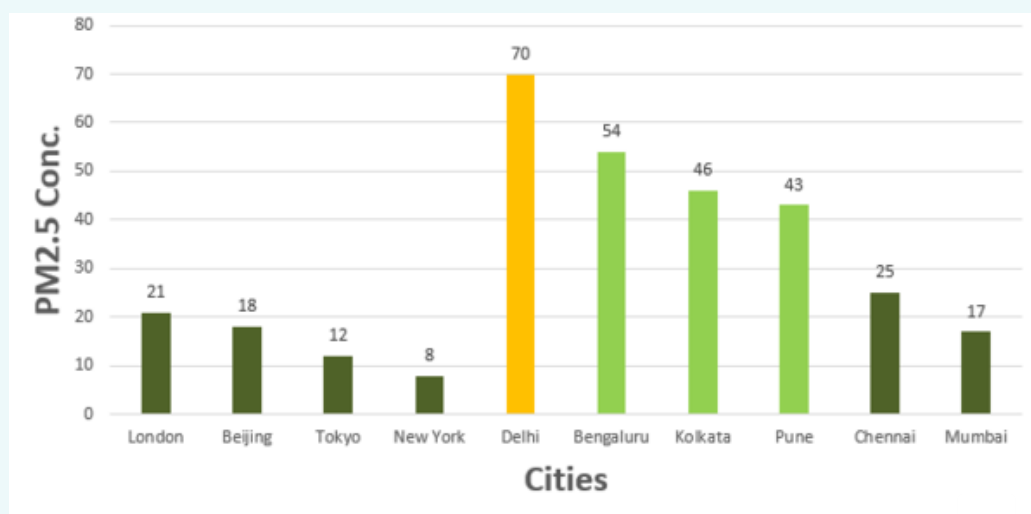
Center of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi

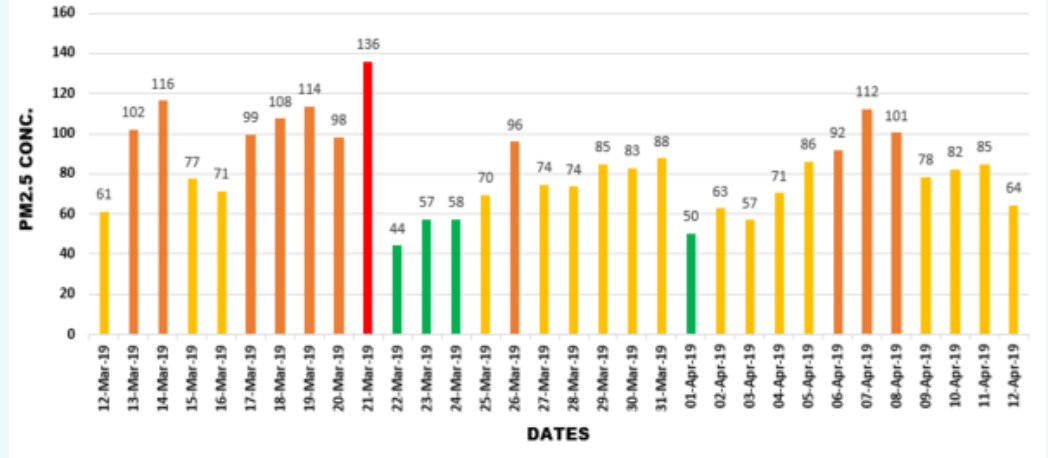


Air Quality in different cities



April 26, 2019, 11:00-12:00 IST (Hourly Average)
Data Source: Berkeley Earth

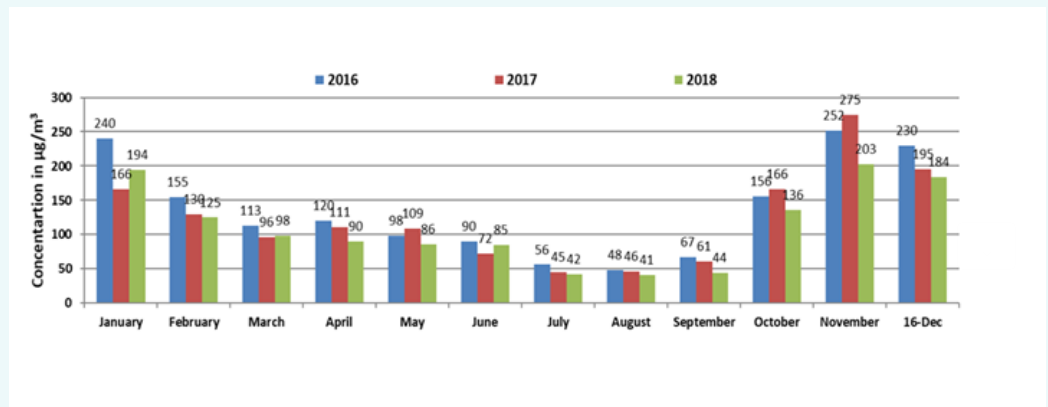
Delhi air quality for last 30 days



Average PM2.5 Air Quality for 10 stations in Delhi. Delhi has seen few better air quality days.

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

The Air we breathe

https://www.newburyportnews.com/editorials/editorial-the-air-we-breathe/article_0be7ea75-b05a-5df9-ae35-81958caddbf5f.html

Source: The Daily News

New Measures and Initiatives

Tackling air pollution has finally made it to party manifestos – but their promises aren't enough

Kolkata, April 25 (IANS) In the midst of elections, environmentalists have flagged concerns over “patchy recognition of the problem of unhealthy air” by MPs over the past five years, particularly those representing the cities and towns that figure in WHO's list of most polluted cities.

<https://newsd.in/greens-decry-patchy-recognition-of-air-pollution-asks-mps-to-be-pro-active/>

Source: Newsd

IIT Delhi, CERCA to Propose Measures to Control Air Pollution in City To Centre

IIT-Delhi, which has a Centre of Excellence for Research on Clean Air, meant for research to study air pollution issues in Delhi-NCR region, is working closely with the Central Pollution Control Board on the issue.

<https://www.ndtv.com/india-news/iit-delhi-to-propose-measures-to-control-air-pollution-in-city-to-centre-2006008>

Source: NDTV

Air pollution kills 780,000 people in Africa each year

Air pollution causes about 780,000 premature deaths per year in Africa, according to a modeling study by researchers at NASA.

<https://cen.acs.org/environment/pollution/Air-pollution-kills-780000-people/97/i17>

Source: C&EN

Air pollution poses risks for childhood cancer survivors

Poor air quality days significantly increase the risk of hospitalizations for respiratory issues in young survivors of cancer, according to a study conducted by researchers at Huntsman Cancer Institute (HCI).

<https://www.sciencedaily.com/releases/2019/04/190424153636.htm>

Source: Science Daily

International Developments

China's efforts to reduce air pollution in major cities found to increase pollution in nearby areas

A team of researchers with members affiliated with institutions in China, the Netherlands, Czech Republic, the U.S. and Austria has found that efforts by the Chinese government to reduce air pollution in its major cities have resulted in higher air pollution levels in nearby areas.

<https://phys.org/news/2019-04-china-efforts-air-pollution-major.html>

Source: Phys

T8 major US cities with the worst air pollution - and 4 are in California

Major cities in California saw especially high pollution levels due to wildfires, while a few industrial cities experienced dirty air from automobiles and power plants.

<https://qz.com/1604654/the-us-cities-with-the-worst-air-pollution-are-in-california/>

Source: Quartz

New Research (study) or Policy

Air pollution and climate change: two sides of the same coin

Erupting volcanoes, earthquakes, dust storms and meteorites smashing into the Earth's crust are natural phenomena that can cause climate change and air pollution.

<https://www.unenvironment.org/news-and-stories/story/air-pollution-and-climate-change-two-sides-same-coin>

Source: United Nations Environment Programme

Revolutionary paint offers solution to air pollution

The paint is activated using light energy, enabling the active ingredient to convert NOx into nitric acid.

<https://www.thehindu.com/sci-tech/energy-and-environment/revolutionary-paint-offers-solution-to-air-pollution/article26903323.ece>

Source: *The Hindu*

New Technology

Maruti to phase out diesel models from April 2020

The country's largest carmaker Maruti Suzuki India (MSI) will phase out all diesel cars from its portfolio with effect from April 1, 2020.

<https://economictimes.indiatimes.com/industry/auto/auto-news/maruti-to-phase-out-diesel-models-from-april-2020/videoshow/69040875.cms>

Source: *Economic Times*

M&M to deploy 50 electric vehicles on Uber platform

Automaker Mahindra & Mahindra Ltd Thursday announced the deployment of 50 of its Electric Vehicles (EVs) to Uber.

<https://economictimes.indiatimes.com/industry/auto/auto-news/mm-to-deploy-50-electric-vehicles-on-uber-platform/articleshow/69041964.cms>

Source: *Economic Times*

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

CONTACT US

Coordinator

Prof. Mukesh Khare
Indian Institute of Technology Delhi

Email: cerca@iitd.ac.in

Co-Coordinator

Dr. Nomesh Bolia
Indian Institute of Technology Delhi

Phone: +91 (11) 2659 1707

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