

CERCA Weekly Newsletter

May 17, 2019

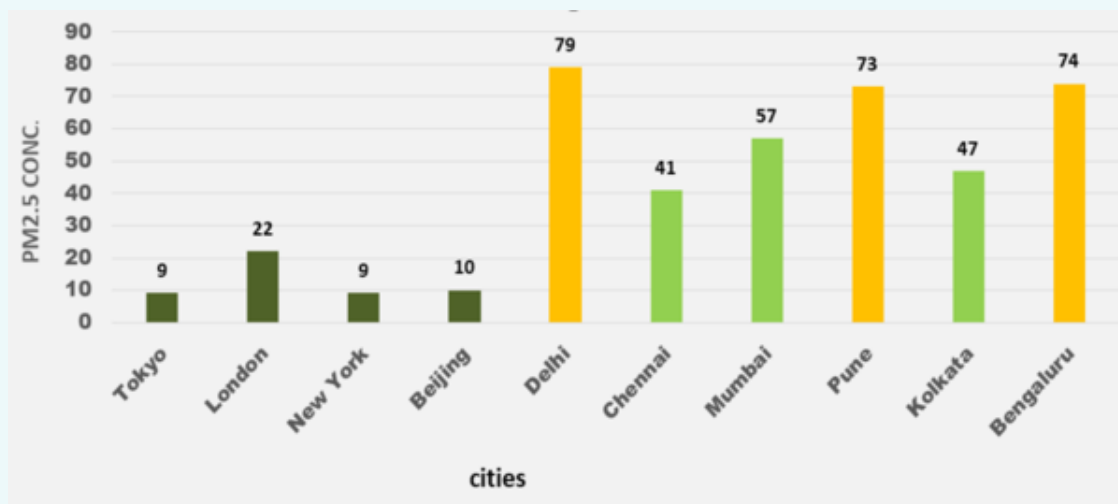
Centre of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi

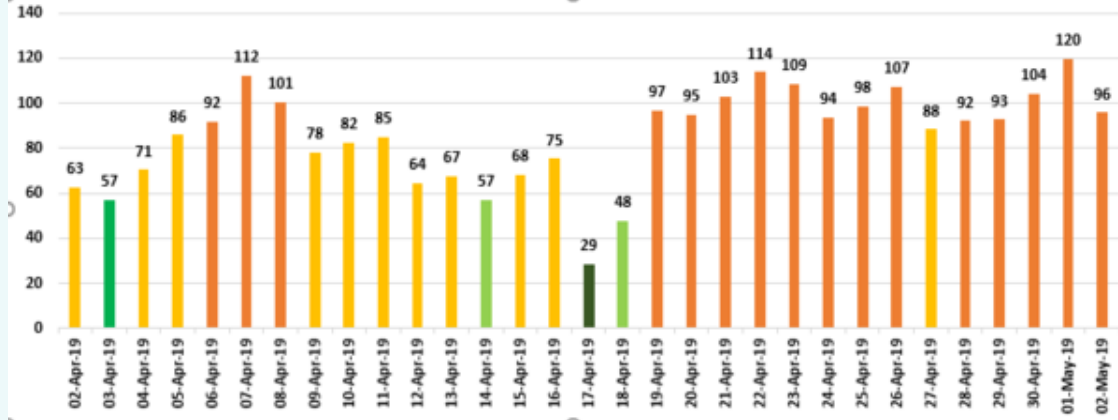


Air Quality in different cities



May 17, 2019, 11:00-12:00 IST (Hourly Average)
Data Source: Berkeley Earth

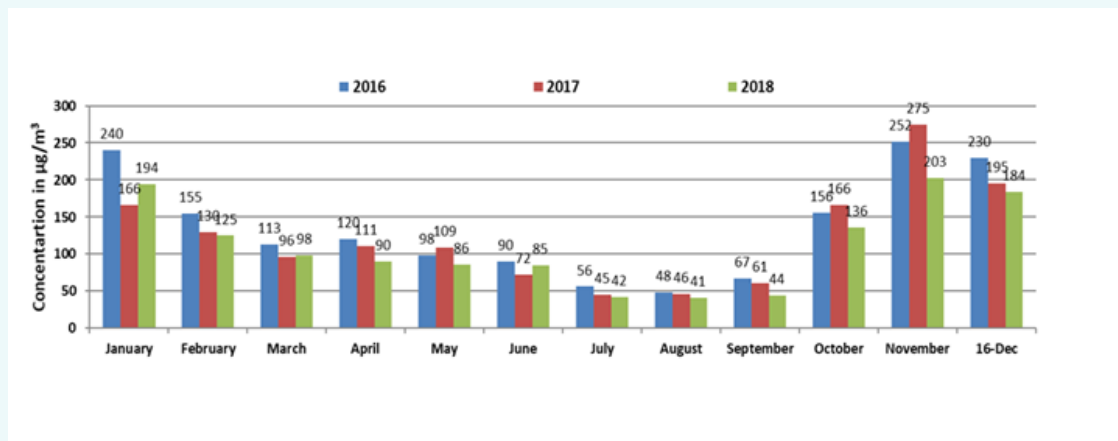
Delhi air quality for last 30 days



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

Air pollution hurts the poorest most

<https://www.unenvironment.org/news-and-stories/story/air-pollution-hurts-poorest-most>

Source: Unenvironment

New Measures and Initiatives

Certification facility for air pollution monitoring equipment

Local certification would help bring down costs and improve the measurement of air pollution and help scrutinize it.

<https://www.livemint.com/news/india/india-to-develop-own-certification-facility-for-air-pollution-monitoring-equipme-1556561927930.html>

Source: Livemint

Satellite data can help track exact air pollution from power plants

Power plants, responsible for much of emissions can now be tracked for the exact amount of air pollution. The big polluters will be effectively monitored, using satellite imagery.

<https://www.downtoearth.org.in/news/pollution/satellite-data-can-help-track-exact-air-pollution-from-power-plants-64409>

Source: Down to Earth

Health Impact

91% premature deaths due to air pollution in low and middle-income countries: UNEP

In the run up to the World Environment Day with its theme of “air pollution”, the United Nations Environment Programme (UNEP) on Thursday urged governments across the globe to deal with this silent killer.

<https://economictimes.indiatimes.com/news/environment/pollution/91-premature-deaths-due-to-air-pollution-in-low-and-middle-income-countries-unep/articleshow/69264417.cms>

Source: *Economic Times*

Air pollution may be damaging 'every organ in the body

Air pollution may be damaging every organ and virtually every cell in the human body, according to a comprehensive new global review.

<https://www.theguardian.com/environment/ng-interactive/2019/may/17/air-pollution-may-be-damaging-every-organ-and-cell-in-the-body-finds-global-review>

Source: *The Guardian*

International Developments

Mexico City pollution: Residents urged to stay indoors

Officials in Mexico City have declared an environmental emergency after air pollution in the Mexican capital reached levels potentially dangerous to human health.

<https://www.bbc.com/news/world-latin-america-48279972>

Source: *BBC*

Pollution: Smog spikes in North China in first four months of 2019

China is in the fifth year of a war on pollution aimed at allaying public unrest about the state of the country's skies.

<https://energy.economictimes.indiatimes.com/news/coal/pollution-smog-spikes-in-north-china-in-first-four-months-of-2019/69369825>

Source: *Economic Times*

New Research (study) or Policy

Air pollution behind weakening Asian summer monsoon, shows study

Researchers point out that the decline in the quantum of rainfall, which is contrary to what is expected from the greenhouse warming, has been ‘unprecedented’ over the last 450 years.

<https://www.livemint.com/science/news/air-pollution-behind-weakening-asian-summer-monsoon-shows-study-1558073123257.html>

Source: *Livemint*

Stubble burning in Punjab and Haryana back to foul up Delhi

Stubble burning in Punjab and Haryana is once again hurting. SAFAR, a body under Union ministry of earth sciences, said that the city air will get fouler in the next couple of days.

Source: *Times of India*

New Technology

Panasonic to set up 1 lakh charging sites for e-vehicles

Japanese electronics giant Panasonic is planning to set up one lakh charging stations and telematic solutions across top 25 Indian cities by 2024 to power over a million vehicles.

<https://economictimes.indiatimes.com/industry/auto/auto-news/panasonic-to-set-up-1-lakh-charging-sites-for-e-vehicles/articleshow/69352891.cms>

Source: *Economic Times*

China's MG Motor banks on EV portfolio in India

China's largest car maker Shanghai Automotive's M G Motor is banking on cleaner and electrified vehicle portfolio to support the government of India's push for cleaner transport alternative to address the rising pollution challenge.

<https://economictimes.indiatimes.com/industry/auto/auto-news/chinas-mg-motor-banks-on-ev-portfolio-in-india/articleshow/69350794.cms>

Source: *Economic Times*

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

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