

CERCA Weekly Newsletter

May 10, 2019

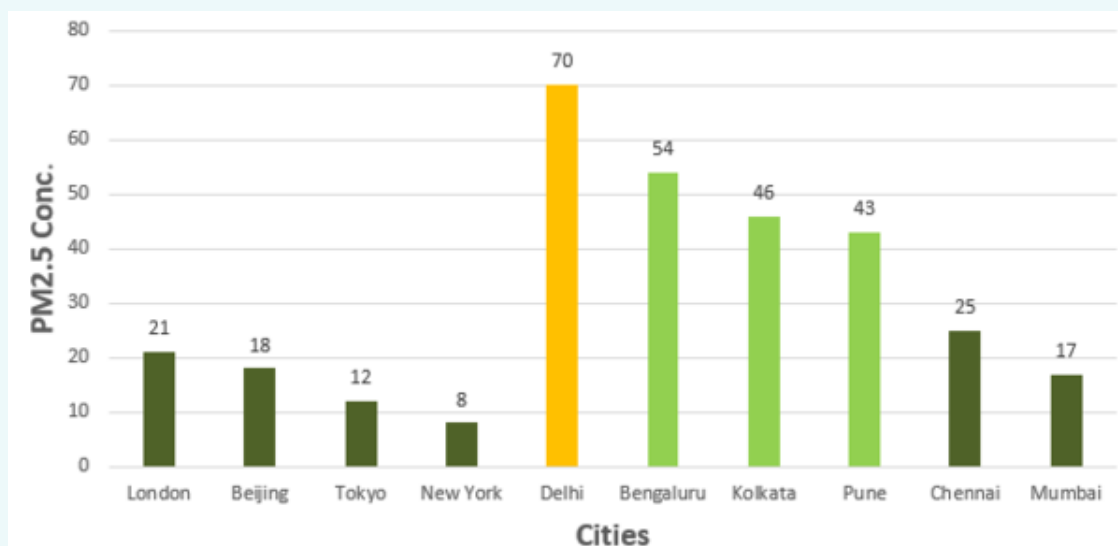
Centre of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi

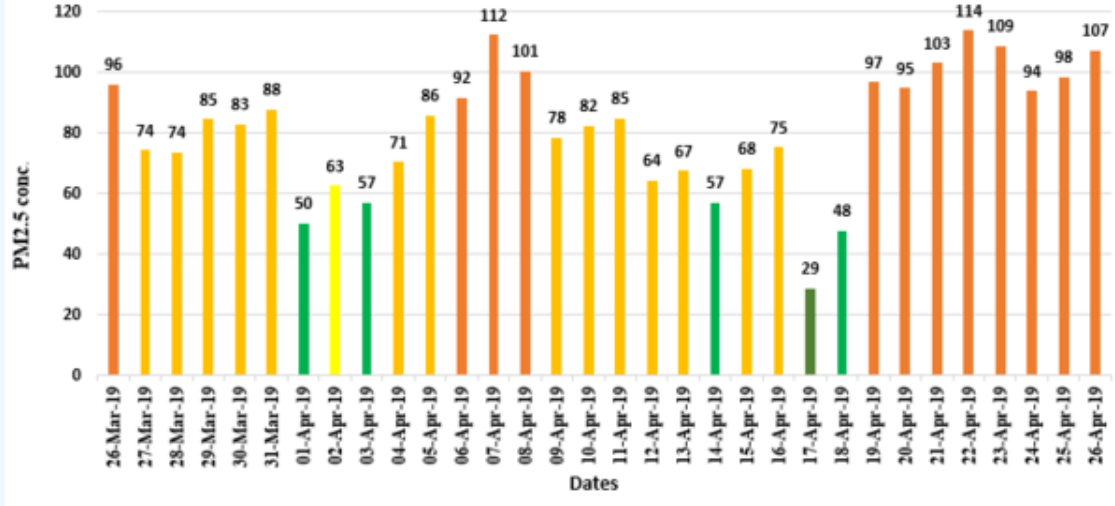


Air Quality in different cities



March 22, 2019, 11:00-12:00 IST (Hourly Average)
Data Source: Berkeley Earth

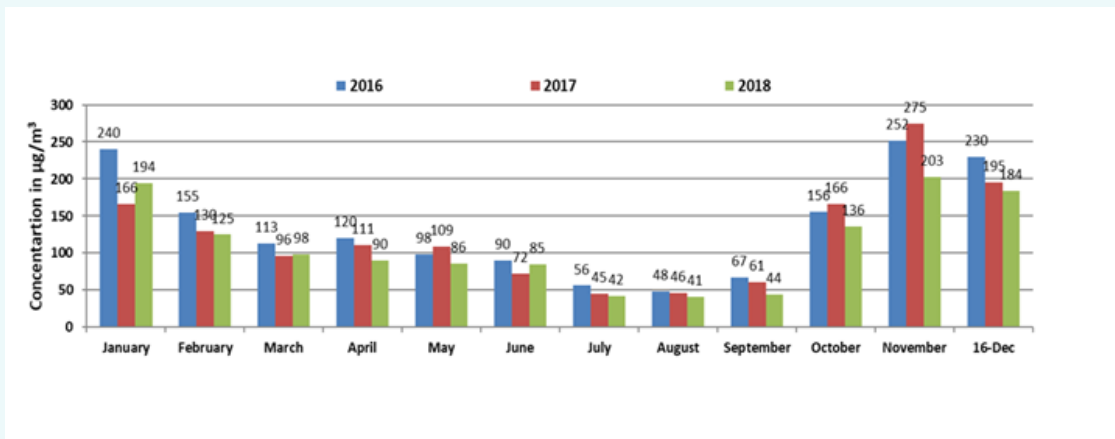
Delhi air quality for last 30 days



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

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

Delhi will be free of air, water pollution in 3 years: Nitin Gadkari

Delhi will be completely free of air and water pollution in the next three years, Union minister Nitin Gadkari.

<https://timesofindia.indiatimes.com/elections/lok-sabha-elections-2019/delhi/news/pollution-free-delhi-in-three-years-nitin-gadkari/articleshow/69260956.cms>

Source: Times of India

Centre, states did little to improve air quality in 14 most polluted cities

Election manifestos released recently by the BJP, Congress and CPI(M) seem to show some responsibility towards the declining environmental standards of the country.

<http://citizenmatters.in/report-card-centre-states-did-little-to-improve-air-quality-in-14-most-polluted-cities-11130>

Source: Citizen Matters

Health Impact

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

Disease burden of air pollution is expected to be high in India because of high incidence of poverty, high exposure of the majority to pollution sources.

<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*

Asthma sufferers need to be ultra-wary of air pollution

A new study says vehicle pollution results in 4 million child asthma cases a year, equivalent to 11,000 new cases every day.

<https://www.unenvironment.org/news-and-stories/story/asthma-sufferers-need-be-ultra-wary-air-pollution>

Source: *Unenvironment*

International Developments

Oil production boom in Texas is creating unhealthy levels of air pollution

The production of oil and natural gas in West Texas is booming but it's coming at a cost to residents who are regularly exposed to unhealthy levels of air pollution.

<https://www.marketwatch.com/story/oil-production-boom-in-texas-is-creating-unhealthy-levels-of-air-pollution-2019-05-09>

Source: *Marketwatch*

Dangerously High Air Pollution Levels Found in Most U.S. National Parks

Some 85 percent of U.S. national parks have levels of air pollution that are hazardous to human health, according to a new report from the National Parks Conservation Association.

<https://e360.yale.edu/digest/dangerously-high-air-pollution-levels-found-in-most-u-s-national-parks>

Source: *Yale Environment 360*

New Research (study) or Policy

Delhi's air quality 'very poor', expected to turn 'severe' due to dust storm: SAFAR

Delhi's air quality nosedived to 'very poor' on Wednesday and is expected to deteriorate further to 'severe' category due to dust storm in northwest India, the Centre-run SAFAR said.

<https://economictimes.indiatimes.com/news/politics-and-nation/delhis-air-quality-very-poor-expected-to-turn-severe-due-to-dust-storm-safar/articleshow/69239589.cms>

Source: *Economics Times*

Biosolar leaf' project targets air pollution on London campus

World's first "biosolar leaf", which they claim can mop up carbon dioxide and discharge oxygen into the atmosphere more efficiently than a typical tree.

Source: *The Guardian*

New Technology

Natural gas vehicles likely to account for 50% of total new sales by 2030: Nomura

A strong network of 15,000 CNG and 1,500 LNG stations by 2030 would have the potential to transform the Indian mobility scenario.

<https://economictimes.indiatimes.com/industry/auto/auto-news/natural-gas-vehicles-likely-to-account-for-50-of-total-new-sales-by-2030-nomura/articleshow/69252074.cms>

Source: *Economic Times*

SC gives temporary relief to Volkswagen Group in National Green Tribunal fine case

The SC has provided some temporary relief to Volkswagen Group by directing the NGT not yet to implement fine of Rs 500 cr. it had slapped on the German carmaker for polluting the air through use of cheat device in its diesel cars.

<https://economictimes.indiatimes.com/industry/auto/auto-news/sc-gives-temporary-relief-to-volkswagen-group-in-national-green-tribunal-fine-case/articleshow/69210811.cms>

Source: *Economic Times*

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

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