

CERCA Weekly Newsletter

March 22, 2019

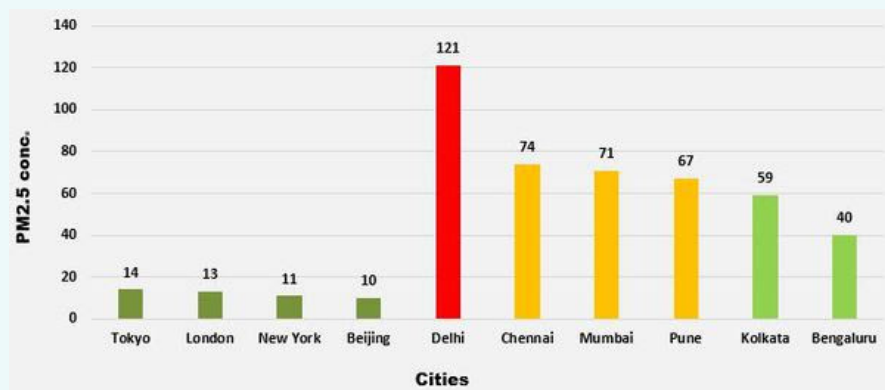
Center of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi

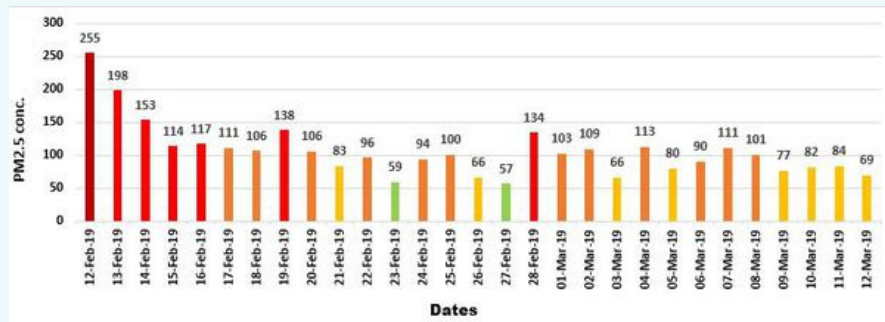


Air Quality in different cities



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

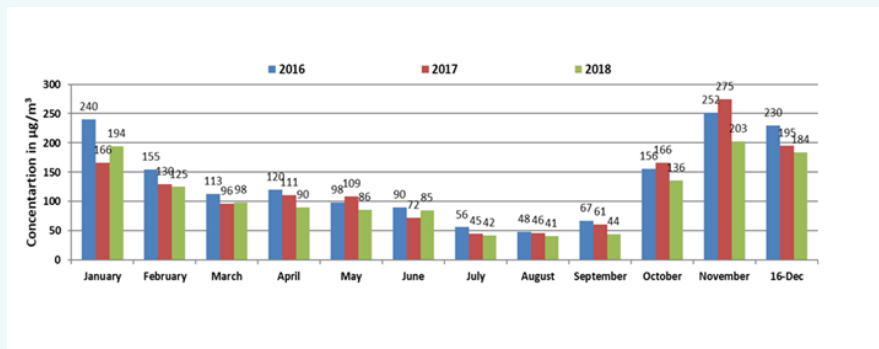
Delhi air quality for last 30 days



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 Is About Justice as Well as Health](https://www.bloombergquint.com/business/green-new-deal-air-pollution-and-inequality#gs.2jpcsg)

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Source: Bloomberg

New Measures and Initiatives

[Green Court Directs 6 States to Provide Action Plan on Air Pollution](https://www.ndtv.com/india-news/national-green-tribunal-directs-6-states-to-provide-action-plan-on-air-pollution-2008960)

The National Green Tribunal (NGT) has directed six states to submit action plans for bringing air quality standards within the prescribed norms by April 30

<https://www.ndtv.com/india-news/national-green-tribunal-directs-6-states-to-provide-action-plan-on-air-pollution-2008960>

Source: NDTV

[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

Health Impact

[Air pollution and Asthma](#)

A few days' exposures to ambient air pollution was associated with increased risk of death from asthma according to a team of researchers Sun Yat-sen University

<https://www.zmescience.com/science/short-term-exposure-to-air-pollution-may-be-deadly-for-people-with-asthma/>

Source: Zmescience

[London struggles to breathe!](#)

Air pollution is known to contribute to early deaths from respiratory and cardiovascular disease.

<https://www.channelnewsasia.com/news/commentary/london-air-pollution-bad-for-children-lung-development-10975786>

Source: Channel News Asia

International Developments

[Manchester triples cycling spending to curb pollution](#)

14 miles of walking and biking lanes to be built protected from road traffic.

<https://www.ft.com/content/8fbfd506-4be9-11e9-bbc9-6917dce3dc62>

Source: Financial Times

[Portsmouth council leader calls on Gove to fund 'radical' air pollution measures](#)

Portsmouth City Council leader Gerald Vernon-Jackson has written to Environment Secretary Michael Gove, asking the government to fund 'radical' measures to cut air pollution in the city.

<https://www.bbc.com/news/uk-england-hampshire-47622820>

Source: BBC

New Research (study) or Policy

[The Financial Burden of Air Pollution: Crop Residue Burning In India Costs India \\$30bn Annually](#)

The economic cost of exposure to air pollution from crop residual burning stands at USD 30 billion or nearly Rs 2 lakh crore annually for the three north Indian states of

Punjab, Haryana and Delhi alone.

<https://economictimes.indiatimes.com/news/environment/pollution/air-pollution-from-stubble-burning-costing-india-30bn-annually-study/articleshow/68251169.cms>

Source: *Economic Times*

[The relation between climate change and air pollution](#)

The link between the two is becoming clearer with each passing year. It is time we also recognize and give it the attention it deserves.

<https://www.downtoearth.org.in/blog/climate-change/how-global-warming-and-air-pollution-converge-63639>

Source: *Down to Earth*

New Technology

[JLR recalls 44,000 cars](#)

Tata Motors owned Jaguar Land Rover (JLR) has initiated a voluntary recall of around 44,000 cars in the UK over higher than certified levels of carbon dioxide (CO₂) emissions.

<https://economictimes.indiatimes.com/industry/auto/auto-news/tata-motors-jlr-recalls-44000-cars-over-co2-emission-levels/articleshow/68409465.cms>

Source: *Economic Times*

[Cheap and Simple Test Devices for Car Emissions Developed By European Engineers](#)

Cheap and simple devices that could help to effectively test the functioning of particle filters have been developed by engineers working to tackle carcinogenic pollution.

<https://auto.ndtv.com/news/engineers-develop-cheap-simple-tests-for-car-emissions-2008682>

Source: *NDTV*

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

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