

Air Pollution & Public Health: A Data-Driven Story





CITY ANALYSIS

- **Explore** air pollution trends across cities to identify the most affected regions.
- **♦** Compare PM2.5, NO₂, CO, and SO₂ levels across different cities.



STATION ANALYSIS

- **♦** Deep dive into stationwise air pollution levels across different monitoring sites.
- Identify pollution hotspots and compare stations in the same city.



HOURLY & SEASONAL TRENDS

- Track pollution patterns across different times of the day and seasons.
- **♦ Identify rush-hour** pollution spikes and weatherdriven variations.



TRAFFIC & INDUSTRY IMPACT

- **Examine how vehicle** emissions & industrial activities contribute to pollution.
- **♦** Analyze NO₂ & CO levels to understand traffic-related air quality issues.



POLICY INSIGHTS & HEALTH RISKS

- **Evaluate the impact of** pollution control measures & public health risks.
- Compare pollution before & after major government interventions.





CITY ANALYSIS











FILTERS

Date

/1/2015 🛗 7/1/202

City

Ahmedabad	Bhopal	
Aizawl	Brajrajnagar	
Amaravati	Chandigarh	
Amritsar	Chennai	
Bengaluru	Coimbatore	

Delhi

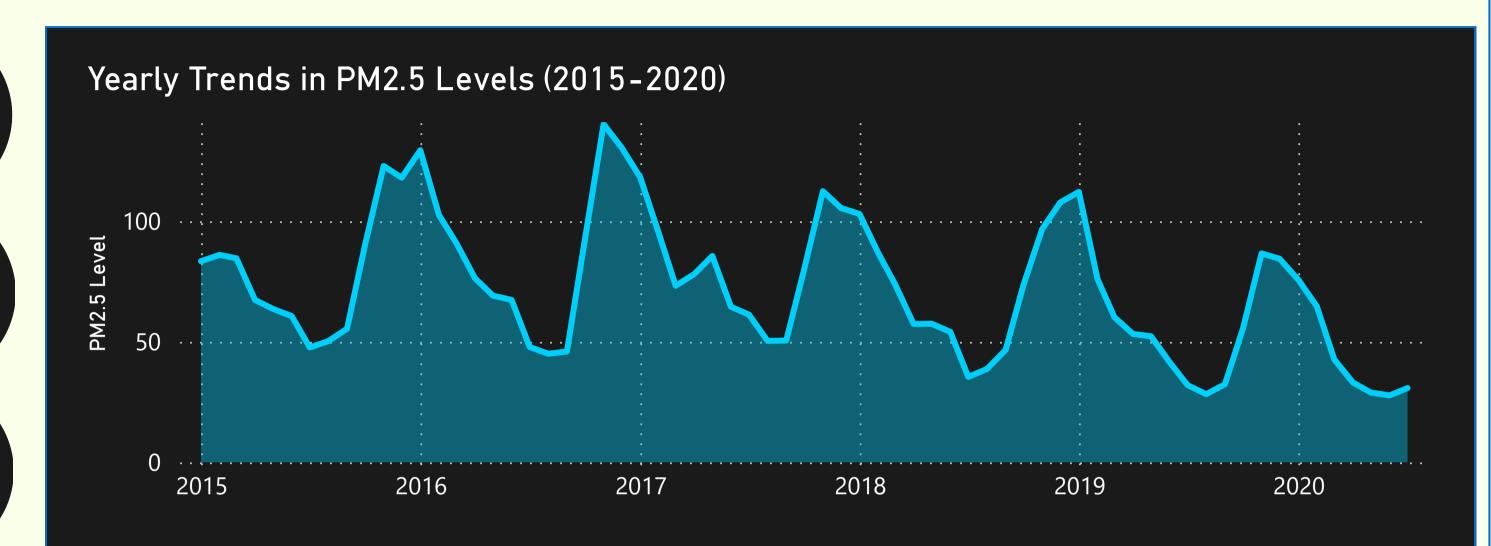
Most Polluted City

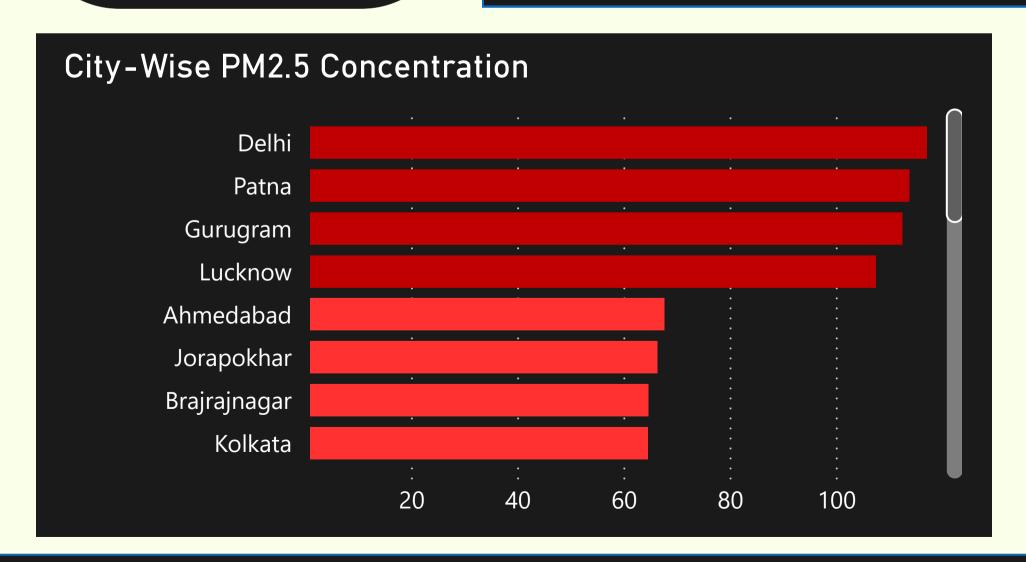
Aizawl

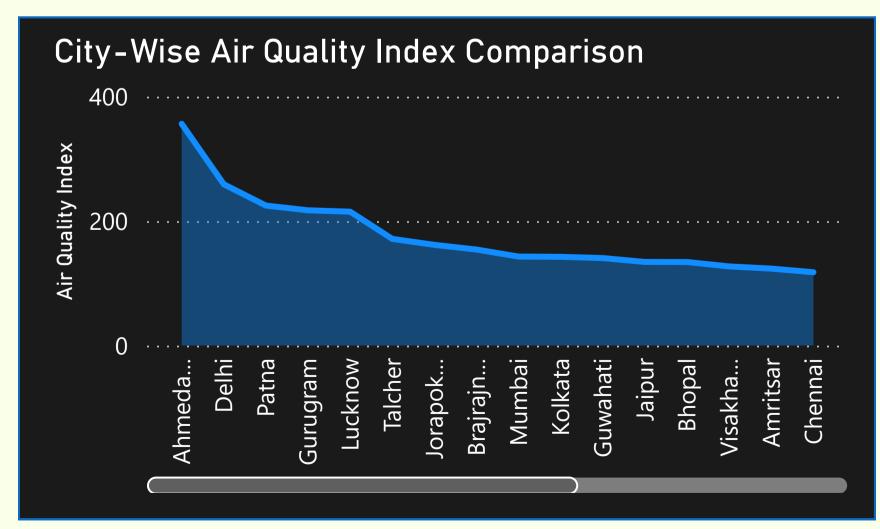
Least Polluted City

29-08-2017

Worst Air Quality Day











STATION ANALYSIS



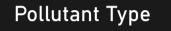






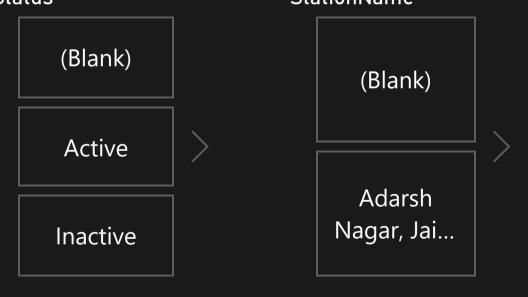


FILTERS





Status StationName



2015	2017	2019
2016	2018	2020

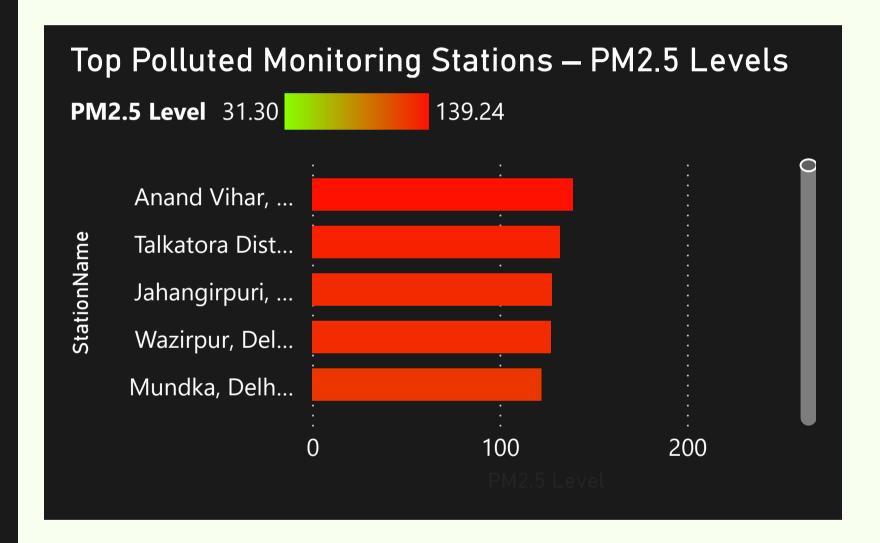
Anand Vihar, Delhi -DPCC

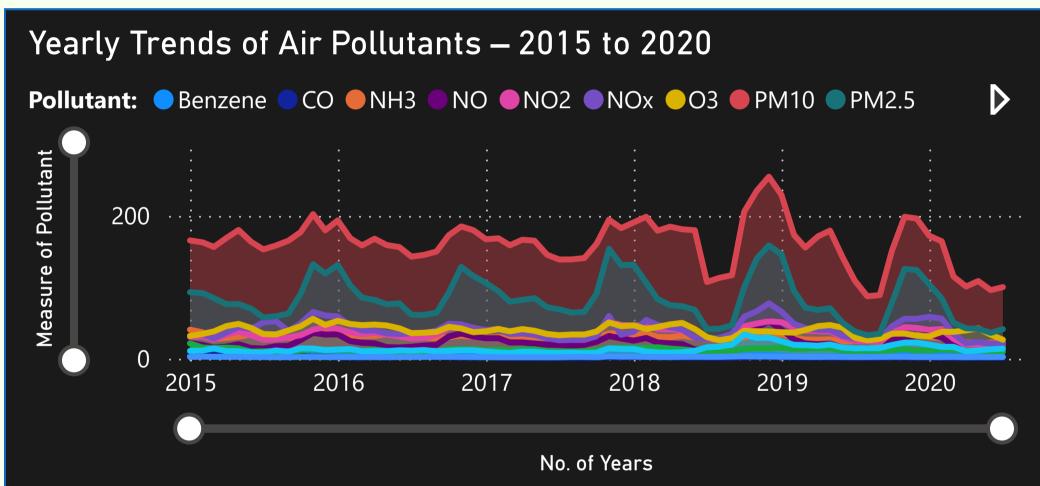
Most Polluted Station

Sikulpuikawn, Aizawl -Mizoram PCB

Least Polluted Station







StationId	City	AQI_Bucket ▼	PM2.5 Level	PM10 Level	O3 Level	NOx Level	SO2 Level	NO2 Level	NO Level	NH3 Level	CO Lev
AP001	Amaravati	Very Poor	125.87	199.94	30.18	60.27	20.21	93.99	12.64	12.55	1.
AP005	Visakhapatnam	Very Poor	143.62	245.99	67.76	59.79	20.14	72.52	26.12	16.09	1.:
AS001	Guwahati	Very Poor	146.66	234.44	22.58	104.93	14.72	17.30	53.09	19.11	1.4
BR005	Patna	Very Poor	80.27	323.54	43.94	84.56	7.57	61.16	143.71	47.19	1.4

📌 This page provides a deep dive into pollution levels at different monitoring stations, showcasing the worst-affected locations, trends over time, and key air quality insights. ↑ 📊 📚





HOURLY AND SEASONAL TRENDS











FILTERS

Year

2015	2018
2016	2019
2017	2020

Season



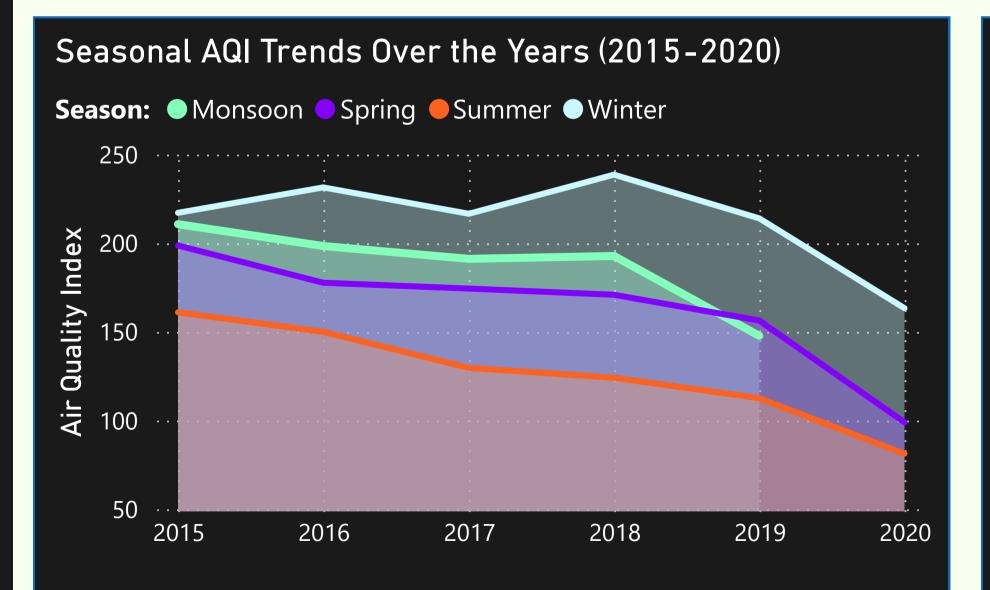
11:00 PM
Highest Pollution Hour

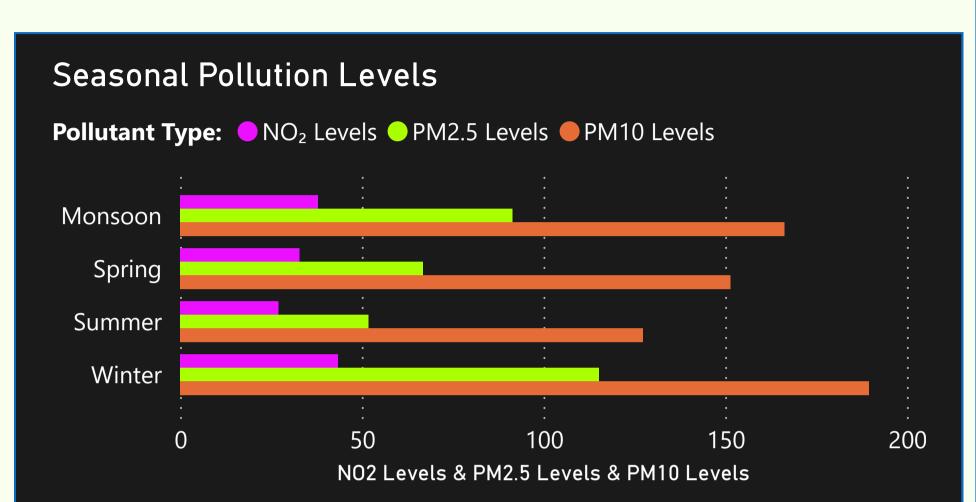
12:00 AM

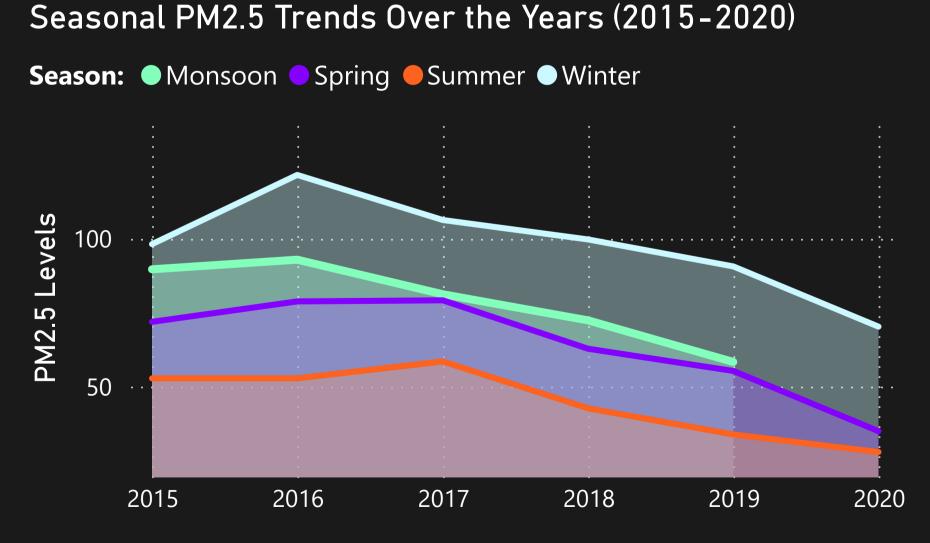
Lowest Pollution Hour

Winter

Most Polluted Season











TRAFFIC AND INDUSTRY IMPACT











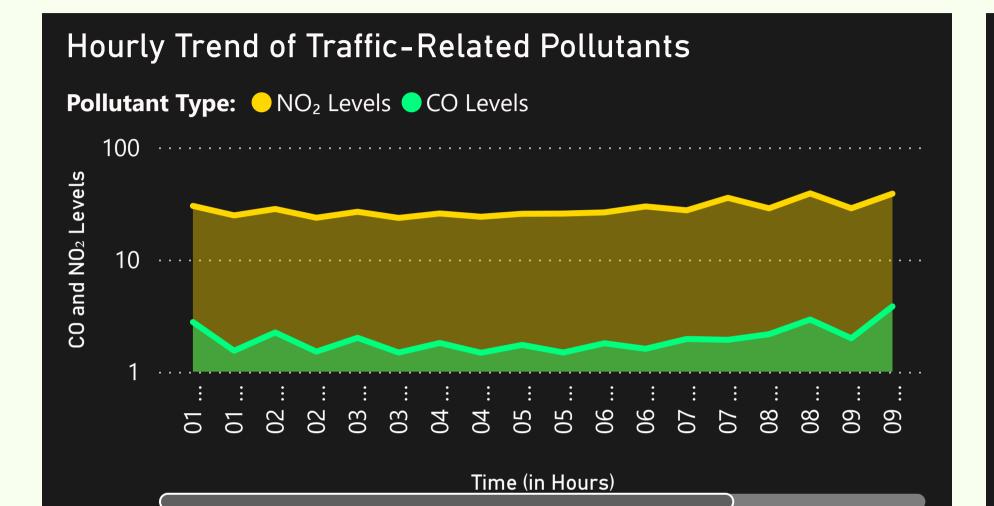
FILTERS

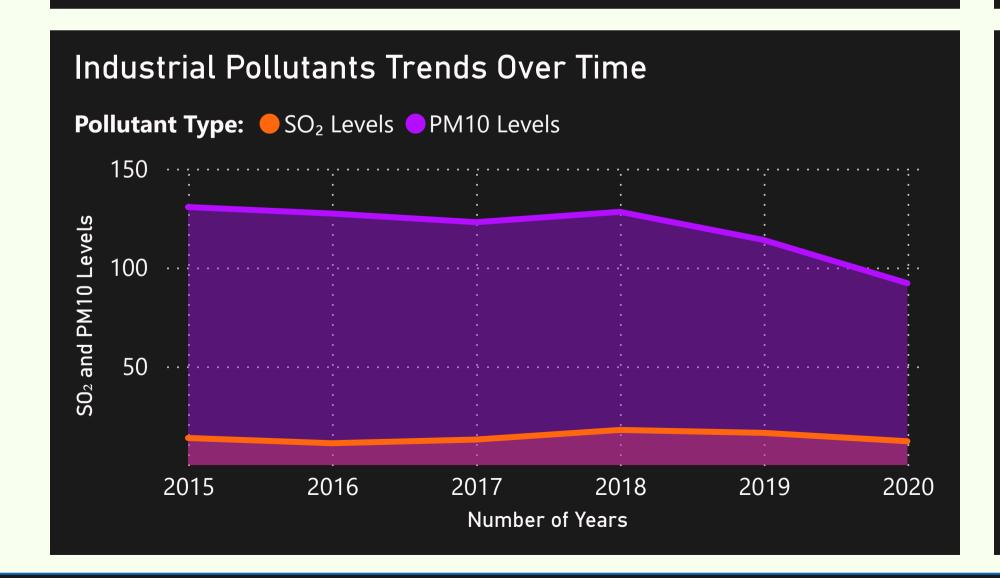
Year

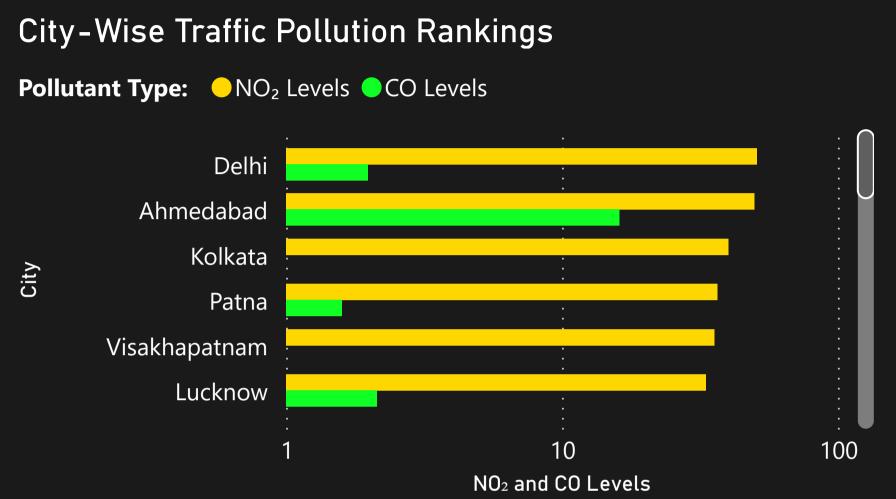
2015	2018
2016	2019
2017	2020

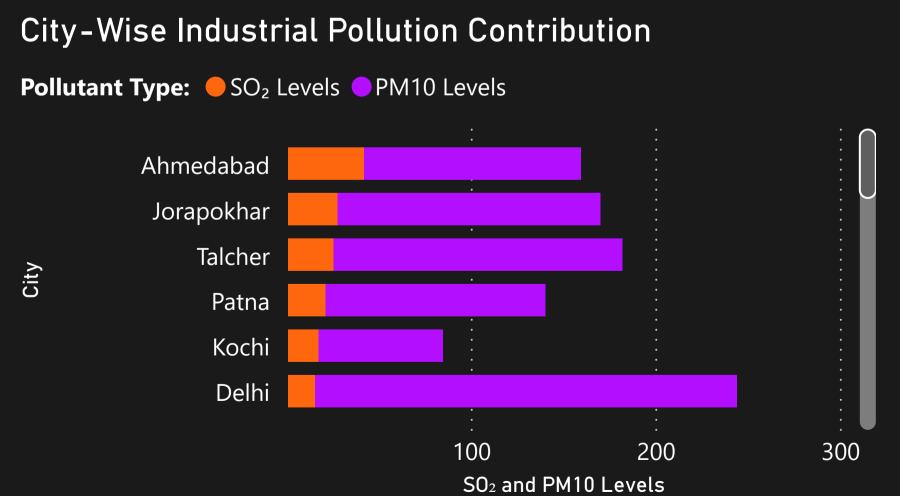


Ahmedabad	Bengaluru	
Aizawl	Bhopal	
Amaravati	Brajrajnagar	
Amritsar	Chandigarh	













POLICY INSIGHTS AND HEALTH RISKS









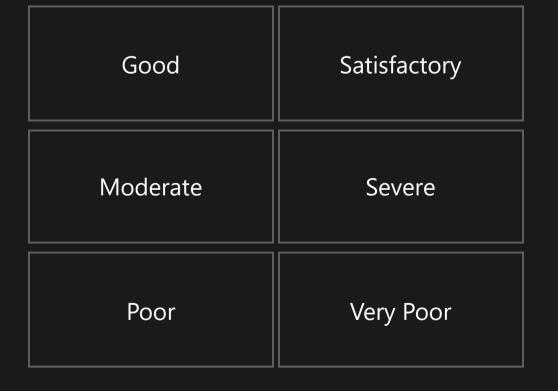


FILTERS

Date

1/1/2015	7/1/2020	

AQI_Bucket



Delhi

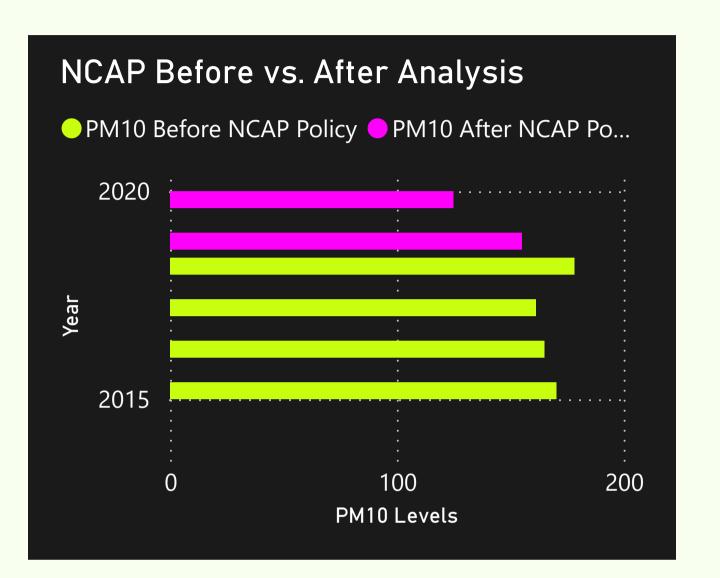
Top Traffic Polluted City

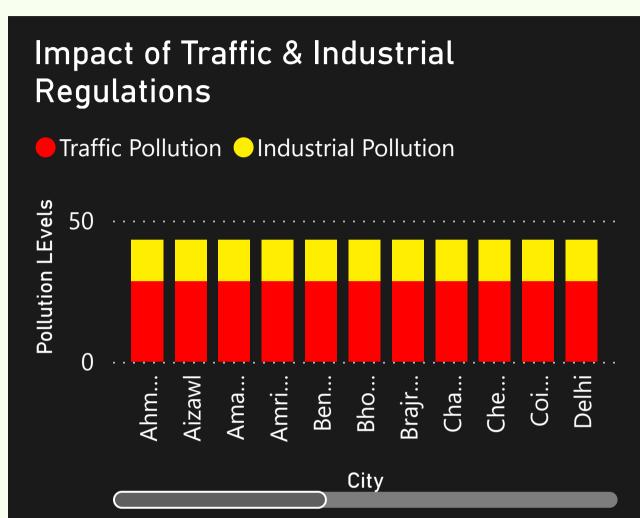
Ahmedabad

Top Industrial Polluted City

Amritsar

Most Improved City after NCAP





Tracking Pollution Trends & Air Quality Impact Over Time AQI_Bucket: Good Moderate Poor Satisfactory Severe Very Poor 400 200 2015 2016 2017 2018 2019 2020 Number of Years

Discover how policies impact pollution levels, identify high-risk cities, explore the link between air quality and public health and understand the policy effectiveness over time! 👴 📭 🖲

