### Air Quality Life Index (AQLI) report, 2023

By IASToppers | 2023-09-01 15:05:00



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The Energy Policy Institute at the University of Chicago (EPIC), recently released Air Quality Life Index (AQLI) report, 2023 indicating that air pollution shortens life of Indians.



[Ref- Down To Earth]

### About Air Quality Life Index (AQLI) report:

- <u>AQLI</u> is based on **frontier research** that quantifies **relationship** between **human exposure** to **air pollution** and **reduced life expectancy**.
- It combines research with hyper-localized, and satellite measurements of global Particulate Matter (PM2.5).
- It illustrates that **pollution policies** can increase life expectancy if it meets **World Health Organization (WHO)** and existing national **air quality standards**.
- The life expectancy is relative to WHO guideline of 5 micrograms per cubic meters (µg/m3).

#### Key Findings of AQLI 2023 on India:

- Particulate pollution is the greatest threat to human health in India.
- Particulate Matter 2.5 shortens an average Indian's life expectancy by 5.3 years.
- Cardiovascular diseases, caused by the pollution, **reduces** the average life expectancy by **about 4.5 years.**
- Child and maternal malnutrition reduce life expectancy by 1.8 years.
- About 67.4% of population live in areas exceeding India's national air quality standard of 40 μg/m3.
- Particulate pollution has increased from 1998 to 2021.
- Average annual particulate pollution increased by 67.7% reduces average life expectancy by 2.3 years.
- 59.1% of the world's increase in pollution came from India between 2013 to 2021.
- The Northern Plains region of India is the most polluted (38.9%).



#### [Ref- AQLI]



[Ref- AQLI]

### <u>Scenario in South Asia:</u>

- Increase in PM2.5 levels from 2013 to 2021:
  - South Asia- 9.7%
  - India- 9.5%
  - Pakistan- 8.8%
  - Bangladesh- 12.4%

### Policy Impacts of India:

• If India would reduce particulate pollution as per the WHO guidelines, residents in **Delhi** would gain **11.9 years** of life expectancy.



- India launched National Clean Air Programme (NCAP) in 2019 to reduce particulate pollution.
- NCAP aimed to reduce particulate pollution by 20-30% relative to 2017 levels by 2024.
  - It focused on **102** cities as **non-attainment cities** which **do** not match national annual average PM2.5 standard.
- Revamp reduction target for NCAP (2022) by setting goal of 40% reduction in 2017 levels for 131 non-attainment cities by 2025-26.
- The average PM2.5 exposure would be 21.9 μg/m3 lower than 2017 levels and add 2.1 years of life, if new targets are achieved.