

AIR AND ENERGY NATIONAL RESEARCH PROGRAM

The Clean Air Act has resulted in one of the most effective public health programs in American history by providing the legislation to improve air quality in the United States. The legislation has led to millions of lives saved and improved public and ecosystem health.



Science at the U.S. Environmental Protection Agency has played a prominent role in protecting health and the environment from outdoor air pollutants, as guided by the Act and other legislation.

The EPA's Air and Energy National Research Program is advancing the science critical to improving air quality and addressing impacts that are influenced by changes to the nation's energy portfolio and environmental conditions.

Objectives include:

- Assess human and ecosystems exposures and effects associated with air pollutants at individual, community, regional, national, and global scales.
- Develop and evaluate approaches to prevent and

reduce air pollution now and in the future.

- Provide human exposure and environmental modeling and monitoring under changing environmental scenarios.
- Deliver state-of-the-art tools to inform decision making for current and future environmental issues at the national, state, tribal and local level.
- Measure and evaluate the impacts of emerging air pollutants such as per- and polyfluoroalkyl substances (PFAS) and ethylene oxide, and emerging sources of air pollutants such as volatile chemical products.

In addition, wildland fire research is an integrated focus of the program. EPA is filling the scientific information gaps and developing tools and new

approaches to prevent and reduce the public health and environmental impacts of wildfires and prescribed burns.

Air Research

<https://www.epa.gov/air-research>

Climate Change Research

<https://www.epa.gov/climate-research>

Air Sensor Toolbox

<https://www.epa.gov/air-sensor-toolbox>

Wildland Fire Science Research

<https://www.epa.gov/air-research/wildland-fire-research-protect-health-and-environment>

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