

Smog

is a type of air pollution

Modern smog is a type of air pollution derived from vehicular emission from internal combustion engines and industrial fumes that react in the atmosphere with sunlight to form secondary pollutants that also combine with the primary emissions to form photochemical smog.

Type Of Smog

- Photochemical smog
- Volcanic smog
- Inside our homes
- Sulfur Dioxide
- From burning fuel for energy



Photochemical smog

Photochemical smog is therefore considered to be a problem of modern industrialization. It is present in all modern cities, but it is more common in cities with sunny, warm, dry climates and a large number of motor vehicles. -Because it travels with the wind, it can affect sparsely populated areas as well.



Volcanic smog

An erupting volcano can also emit high levels of sulphur dioxide, creating volcanic smog, or vog.



Inside our homes

Some of these pollutants can be created by indoor activities such as smoking and cooking



Sulfur Dioxide

Sulfur is present in all fossil fuels and is released as Sulfur Dioxide when the fuels are burned. Sulfur Dioxide reacts with oxygen gas to give Sulfur Trioxide



From burning fuel for energy

The exhaust from burning fuels in automobiles, homes, and industries is a major source of pollution in the air.



Health effects

Smog is a serious problem in many cities and continues to harm human health. Ground-level ozone, sulfur dioxide, nitrogen dioxide and carbon monoxide are especially harmful for senior citizens, children, and people with heart and lung conditions such as emphysema, bronchitis, and asthma

Areas affected

London

The Great Smog of 1952 darkened the streets of London and killed approximately 4,000 people in the short time of 4 days (a further 8,000 died from its effects in the following weeks and months).



Mexico City

Within one generation, the city has changed from being known for some of the cleanest air of the world into one with some of the worst pollution, with pollutants like nitrogen dioxide being double or even triple international standards.



Tehran

In December 2005, schools and public offices had to close in Tehran, Iran and 1600 people were taken to hospital, in a severe smog blamed largely on unfiltered car exhaust.



United States

A NASA astronaut photograph of a smog layer over central New York.



Los Angeles and the San Joaquin Valley

The millions of vehicles in these basins plus the added effects of the San Francisco Bay and Los Angeles/Long Beach port complexes contribute to further air pollution.



Southeast Asia

Smog is a regular problem in Southeast Asia caused by land and forest fires in Indonesia, especially Sumatra and Kalimantan, although the less political term haze is preferred in describing the problem.



How to Protect Yourself from Air Pollutants

- First, watch a series of animations and movies depicting the formation of air pollution.
- Then, learn to understand the Air Quality Index (AQI) in your area.
- Next, get familiar with Ozone Action Days and why you should never ignore them
- Then, follow the National Air Quality Forecast.
- Finally, familiarize yourself with the effects of smog on your health.

- What is it a “Smog”?
- What do you know a type of smog?
(Tell something about each)
 - What health effect is smog bring?
 - What town that suffer from smog do you know?
 - How to protect yourself from air pollutant ?