

The Negative Effects of Air Pollution on the Environment and Human Health

Hylia Daniari, TIS (girls), hyliadaniari@yahoo.com

Abstract

In this paper contains a discussion about the negative effects of air pollution on the environment and human health which is due to the increase in industrialization and concentration of poisonous gases in the environment causing the air in getting polluted more frequently. It is also noticed that greenhouse gas pollution, is the cause of climate change, and for sure affects the entire planet. By going on, this paper answers some questions like: how polluted can the air be before it starts to affect our health; How Air Gets Polluted? and by answering these questions it is concluded that particles less than 10 micrometers pose a health concern because they can be inhaled into and accumulate in the respiratory system, but particles less than 2.5 micrometers, are referred to as "fine" particles and pose the greatest health risks. Air pollution is caused by solid and liquid particles and certain gases that are suspended in the air. Another point that is mentioned and leads to more information is that the fossil fuel, firewood, and other things that we burn produce oxides of carbons which got released into the atmosphere. But with the increase in demand for land, the people started cutting down of trees which caused deforestation. That ultimately reduced the filtering capacity of the tree. Moreover, during the last few decades, the numbers of fossil fuel burning vehicle increased rapidly which increased the number of pollutants in the air.

Prior to the industrialization period, we rarely encounter the air pollution, environmental damage and health issues. But, due to the increase in industrialization and concentration of poisonous gases in the environment the air is getting polluted more frequently. Bringing attention to Air Pollution, people all around the world are realizing, that air pollution can damage the environment, such as: agricultural, human health, the increase in sea level, destruction of jungles, and production of the green gas. Keep in mind, that is also harmful to our health, and it impacts the

environment by reducing visibility and blocking sunlight, causing acid rain, and harming forests, wildlife, and agriculture

The world is realizing that Greenhouse gas pollution, is the cause of climate change, and for sure affects the entire planet, and do not forget that By trapping the earth's heat in the atmosphere, greenhouse gases lead to warmer temperatures, which in turn leads to the hallmarks of climate change: rising sea levels, more extreme weather, heat-related deaths, and the increased transmission of infectious diseases. , but on the other hand Ozone layer is a major factor in causing asthma (or making it worse), and nitrogen dioxide and sulfur dioxide can also cause asthma, bronchial symptoms, lung inflammation and reduced lung function.

Questions like how polluted can the air be before it starts to affect our health? How Air Gets Polluted? And much more have been asked by people all around the world. And some will be covered in this paper.

As mentioned above there are many issues, and questions which require actions and must be provided with a solution, in order to be more aware of the elements causing this evolution. There are some questions that will be answered in this paper. The first and most important question is that how polluted can the air get, before it starts effecting our health? Well, the answer to this question is that, Particles less than 10 micrometers pose a health concern because they can be inhaled into and accumulate in the respiratory system, but Particles less than 2.5 micrometers, are referred to as "fine" particles and pose the greatest health risks. Air pollution is caused by solid and liquid particles and certain gases that are suspended in the air. In the 19th century, episodes of "smog" (a combination of smoke and fog) in cities like New York and London resulted in many deaths. Air pollution continued to be a significant problem up through the middle of the 20th century. Around the world, nine out of 10 people breathe unhealthy air. And is now the biggest environmental risk for early death.

Lastly, the other question that has caused a lot of curiosity for people, is that how easily can air get polluted and what is the reason to this issue. Well, the fossil fuel, firewood, and other things that we burn produce oxides of carbons which got released into the atmosphere. But with the increase in demand for land, the people started cutting down of trees which caused deforestation. That ultimately reduced

the filtering capacity of the tree. Moreover, during the last few decades, the numbers of fossil fuel burning vehicle increased rapidly which increased the number of pollutants in the air.

To continue with this topic people all around the world know, Air pollution affects all things. It is harmful to our health, and it impacts the environment in several ways. Do not forget the fact that Emissions of pollutants into the air can result in changes to the climate. These pollutants, including greenhouse gases that are often referred to as climate forcers. Ozone layer in the atmosphere warms the climate, while different components of PM can have either warming or cooling effects on the climate.

One thing that most of the people around the world think is that, air pollution only effects the human beings, but this point is totally wrong, for the reason, Air pollution injury to plants can be evident in several ways. Injury to foliage may be visible in a short time and appear as necrotic lesions (dead tissue), or it can develop slowly as a yellowing of the leaf. There may be a reduction in growth of various portions of a plant.

Conclusion

To conclude, this paper is about the negative effects of air pollution on the environment and human health. The air we used to breathe used to be fresh, but unfortunately due to increasing industrialization it has gotten toxic and has caused a lot of air pollution. Now. Bringing attention to Air Pollution, we know that air pollution can and will definitely damage the whole planet. For instance, it can destroy the crops, ruining plants and also causing diseases. Moreover, it increases the rate of aging of lungs, decreases lungs' function, damage cells in the respiratory system. And to cover the questions that has made a lot of curiosity and confusion for people, we understood that the size of the particles in air can affect how clean or how polluted the air can get, if the particles are large in size the air is polluted if they are small the air is clean. And we also covered how and in what conditions the plants will get effected by the pollutants of the air. We must, find ways to decrease vehicle traffic, utilize clean energy, and optimize utilization of public transport.

References

[https://www.mass.gov/doc/health-environmental-effects-of-air-pollution/download#:~:text=Air%20pollution%20can%20damage%20crops,\(such%20as%20harsh%20weather\).](https://www.mass.gov/doc/health-environmental-effects-of-air-pollution/download#:~:text=Air%20pollution%20can%20damage%20crops,(such%20as%20harsh%20weather).)

<https://scied.ucar.edu/learning-zone/air-quality/effects-air-pollution#:~:text=Air%20pollution%20affects%20all%20things,change%2C%20affects%20the%20entire%20planet.>

<https://www.nationalgeographic.org/encyclopedia/air-pollution/>