



## Panacea for the Air Pollution-A Review

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### Abstract

Air pollution is the fusion of manmade substances in the natural air we breathe. It is nothing but the contamination of air. Pollutants can be gases, smoke, Household chemicals, pollen, particles produced from the fossil fuels and coal. There are various adverse effects on the human health from these pollutants which needs to be eradicated for a better and healthy living. The first step for the resolution of air pollution is organic way of living.

**Keywords:** *Pollution, smoke, organic lifestyle, chemicals*

### Introduction

Air pollution is one of the major mishaps faced by today's world. There are different types of pollutants like primary pollutants and secondary pollutants [1-5]. The pollutants that directly result to pollution are called primary pollutants. For example carbon monoxide emitted from the vehicles. The pollutants that are caused from the reactions of the primary pollutants are called secondary pollutants [6-10]. For example, Ozone is formed from the reactions of primary pollutants such as hydrocarbons and nitrous oxides [11-16]. Advancements in science and technology and modern lifestyle are the main causes for the air pollution. It is always good to advance and improve the lifestyle but if that is effecting in an adverse way on our lives, what is the good happening? Organic way of lifestyle can reduce the pollution to a maximum extent [17-25]. Researchers are working on the best ways out from this complication. There is a wide effect on the human health from these pollutants (Figure 1).



FIG. 1. Air pollution.

## **Effects of Air Pollution**

Not only on the human but also the plant and animal population are effected with the adverse effects of pollution. There are many health effects from the air pollution out of which respiratory and cardiovascular diseases are the most alarming [26-33]. Asthma, lung infection, cardiac diseases and cancer are the most serious effects. Exposure to air pollution for children causes some serious illness and might sometimes leads to chronic or even death.

Global warming is another alarming effect of air pollution which is caused by the emissions from the cars, factories, home and other harmful gases. The industrial wastes and the burning of fossil fuels are also another major cause for the Acid rains which effects the human, animal and crop pollution [34-38]. The harmful gases like nitrous oxide and sulphur combines with the atmospheric water to acidify hence forming the acid rains. The forests and the lakes are majorly affected by acid rains.

Another major effect for the fish and animal species is by the toxic chemicals from industrial wastes and mainly the agricultural chemicals being deposited on the sea surface.

## **Panacea for the Air Pollution**

In today's modern world completely eradicating air pollution is next to impossible but it is always possible to reduce the pollution with a minimum effort from each one of us for a better tomorrow for the next generation. We have almost modernised everything today and that is what is leading to the pollution in many ways [39-41]. Using public transport to reduce the vehicle emission, conserving energy to reduce the burning of fossil fuels to produce energy, the concept of reduce, Reuse and recycle, Using energy efficient devices, Planting , Stop cutting down forests are the trivial steps to be taken from every individual to reduce the pollution.

Industrialized nations have attempted to decrease levels of sulphur dioxide and smoke to enhance individuals' wellbeing. However, an outcome, not anticipated, is that the lower sulphur dioxide levels may really aggravate a worldwide temperature alteration. Similarly as sulphur dioxide from volcanoes can cool the planet by blocking daylight, cutting the measure of the compound in the environment lets more daylight through, warming the Earth [42-47]. This impact is overstated when raised levels of other greenhouse gasses in the environment trap the extra warmth.

We know the rudiments of what can be reused and recycled paper, plastic, metal, glass. In any case, there is an expanding host of waste that can now get repurposed on account of technical advances.

Researchers have invented how to utilize human crap and that of steeds, rhinos, and elephants to power transports, rickshaws, and even homes [48-52]. There's innovation now to transform restaurant used oil into biofuel, sea squander into shoes, and sewage into gaseous petrol [53-56]. Charge Gates has even demonstrated that sewage can control the very framework that transforms sewage into drinking water.

But what about recycling and reusing something we cannot touch?

The complexion of the black smoke that comes out from the vehicle in motion is actually the unburnt carbon that is released from combustion [57-62]. This carbon when it put through a very simple chemical process produces a raw material highly used in the ink and printing sectors [63-68]. Anirudh Sharma an MIT graduate from India has invented this USA. He calls this as black gold and when this is mixed with alcohol and oil can be a cheaper alternative for the traditional ink [69-75]. This project is now tied up with a lot of companies (Figure 2).



**FIG. 2. Device used to collect vehicle emission.**

Another step that has been taken recently to curb pollution is Vertical gardening. China made an awesome illustration a month ago with the Asia's first Vertical Forest. The vertical woodland is said to produce 60kg oxygen consistently [76-78]. Presently, while the world is going gaga over this splendid idea, Bengaluru, India too has joined the fleeting trend with a vertical garden (Figure 3).



**FIG. 3. Vertical garden on the pillars.**

This idea is the brainchild of SayTrees, thus far about 3500 saplings of more than 10 species have been planted. This vertical garden is arranged in one of the mainstays of Hosur Road flyover, Bengaluru with an expectation to draw out the pleasant characteristics of the city while battling with pollution simultaneously [79-80]. Like any other, this one too needs appropriate support for proficiency and SayTrees has remembered it. A robotized trickle water system framework will water the saplings consistently and they will frequently take care of those saplings. Further, as indicated by the SayTrees, these vertical patio nurseries will help decrease urban warmth island impact and brown haze, clean outside air with pollutants and dust, go about as a sound sealing boundary, and make living space for creatures and a few different advantages.

## **Conclusion**

These innovations by the researches will be playing their part to curb the pollution for safe healthy and better living standards. However every individual is responsible to eradicate the pollution. Organic life style can be the most important step to be taken to accomplish this. Cutting down forests, usage of household chemicals should be paralysed. We are responsible to give the better earth for our next generations.

**“We do not inherit the earth from our ancestors; we borrow it from our children”**

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