

- Introduction
- The unfathomable disastrous cancer that the world is encountering at this concurrent time is its environmental degradation. The root cause behind this subversion of the well-being of this environment is pollution. Pollution is nothing but the presence in or introduction into the environment of a substance that has harmful or poisonous effects. A phenomenon that is directly responsible for degenerating the health of the environment.
- There are numerous kinds of pollutions that are degrading our environment. The main three kinds are namely Water pollution, Air pollution, and Soil pollution.
- There are numerous ways how water gets polluted, the first among which is the immeasurable dumping of agricultural and industrial waste into the water. There are many industrial sites, or agricultural farms that produce waste in the form of toxic chemicals and pollutants, and a lack of proper waste management system the waste is dumped into nearby freshwater systems, that results in polluting the water. The second insane cause is marine dumping, where even to this day and age numerous countries throughout the world collect household garbage and dump them into the waters of the ocean. Quite analogously in numerous countries Sewage and wastewater from each household that contains Harmful chemicals, bacteria, and pathogens are released into the sea, which not only pollutes water but harms the ecosystem of the ocean as well. Then comes the reason oil leaks and spills where accidental oil spills caused by oil drilling operations pollute the ocean. And finally, the most important and severe reason is pollution by Radioactive Waste, where extremely hazardous waste from facilities that create nuclear energy sometimes released into the environment rather than disposing of properly, which causes water pollution.
- Polluting water means destructing lives, in other words, biodiversity. It directly contaminates the entire food chain system. Resulting in engendering severe health hazardous. The fact that Poor water quality becomes a root cause for flaring up numerous diseases had been proved long ago, more importantly recently scientists have found some concerning evidence that Poor water quality, in the long run, can trigger intractable infant mortality as well. To address this problem, the first thing that will be needing is the introduction of proper water treatments that filters the wastewaters properly and reverse the pollution, using and dumping of plastic waste and plastic had to be reduced, we should start conserving water, indulge concerned government and authorities to frame proper policies and most importantly create a world-wise awareness throughout the world about the severity of the problem.
- The pollution of the second kind is Air pollution. Quite similarly there are numerous reason why the air gets polluted, the first among which is burning of fossil fuel, that emits greenhouse gases like CO<sub>2</sub>, CO, CH<sub>4</sub> to the environment that results in polluting the air, similarly, on one hand, greenhouse, and several other hazardous gases emitted from large industries pollute the air directly on the other hand such emitted toxic air propels the 'Microbial Decaying Process' and this Decaying of microorganisms present in the surrounding releases methane gas which is highly toxic. Open burning of Garbage Waste and Construction and Demolition are other two ways how toxic gas gets emitted into the environment and causes air pollution.
- There are unfathomable effects that air pollution has, and most of which are related to human health. Air pollution is one of the root causes of heart disease, lung cancer, and emphysema. In the long-term air pollution can damage people's nerves, brain, kidneys, liver, and other organs as well. Some

primary studies have shown that air pollution can be one of the primary causes behind these incremental birth defects. It causes global warming and acid rains that indirectly propel soil pollution as well. To address this use first we need to stop getting dependent upon nonrenewable energies like burning crude oil or fossil fuel. Secondly, People should public transport more than their personal cars so that the emission of greenhouse gases can be curbed, use fans rather than air conditioners that emit potent greenhouse gases known as hydrofluorocarbons (HFCs) and finally more stress should be given to recycling of goods.

- Finally comes soil pollution. Just like water pollution unimpeded dumping of Industrial & Agricultural Waste is one of the major reasons why soils get polluted. Besides this, the household waste disposals that contain harmful hazardous chemicals and band sewage and wastewater management results in contamination of soil. Finally, acid rain which is an effect caused by a chemical reaction that begins when hazardous compounds like sulfur dioxide and nitrogen oxides are released into the air pollutes the soil significantly as well.
- Causing neuromuscular blockage is said to be one of the major effects of soil pollution. It causes depression of the central nervous system, headaches, nausea, fatigue, eye irritation, and skin rash. Contamination of soil results in the subversion of the fertility of the soil, which in the long run may cause food crises in the world. And lastly, contamination of soil indirectly pollutes the water as well. Leading a sustainable life, and recycling of products can reduce this incremental rate of soil pollution significantly. Policies should be framed to boost greenery and clean energy, reduce the use of non-biodegradable materials and finally Encourage an eco-friendlier model for any sort of economic activity that might help address this issue.
- Finally, to conclude, we must understand that technological advancement is inevitable and important, but there must be a subtle balance, the advancement can never be at the cost of our environment, therefore we should incline more towards clean and green energy, adapt sustainable lifestyle, and raise social awareness on the severity of the matter and sustainability. We are perhaps the last hope that our environment or world has got. Unless we start being responsible individuals and take sincere actions accordingly, we won't be leaving habitable earth for our future generations.
- Thank you

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