***ENVIRONMENTAL SUSTAINIBILITY ON DEFORESTATION:***

**INTRODUCTION:**

Environmental sustainability is discussed corresponding to all parts of our lives from making ecologically cognizant networks to sourcing reasonable food, sustainable power source, low effect furniture and attire. Environmental sustainability is basically about whether ecological assets will be ensured and kept up for the people in the future. (Stevens, 2017) Deforestation influences environmental sustainability on a worldwide scale with progressively negative consequences for not only developing but for the developed nations as well. Results of deforestation incorporate a worldwide temperature alteration, flooding, environmental change, water and air contamination. (Oladipo, 2015) This scoping paper specifically includes the environmental sustainability issues of deforestation in Australia. Australia is gifted by probably the most beautiful and the prettiest natural landscapes on the planet. Australia has the best variety of trees and forest including savannahs, tropical rainforests, gum backwoods and different forests that give safe house to the most valuable creatures including birds and wild life. However Australia has the issue of deforestation despite of it being a developed country. It is the most terrible nations on the planet for huge amounts of deforestation which results in loss of shelter for millions of living creatures that depend on these areas for living. Not only has this, but the effect of deforestation on the earth and biological systems incorporated loss of biodiversity, environmental change and decrease in fertility of soil. Australia is a country with very less forests due to the excessive practice of deforestation and broad endeavors are required to stop the natural effect of deforestation. (Blue, n.d.)

**DETERMINANTS OF DEFORESTATION IN AUSTRALIA:**

Australia is said to be the only developed country that has made to the list of deforestation by World Wildlife Fund. The primary driver of this is, land clearing for domesticated animals, as indicated by Martin Taylor.

"Most deforestation in Australia is only for livestock pasture" ("How Australia became one of the worst deforesters in the world", 2018)

* CUTTING DOWN: Deforestation can happen rapidly through fire or cutting down to clear a path for manors, yields or field. It can likewise continue step by step, for instance because of impractical logging or environmental change. As it is very unusual for people in the market areas to get the full return of woods or trees so they try to cut down these areas and utilize them in other ways in order to have a huge amount in their pockets as a result of their sale or use. Deforestation is for the most part brought about by either mining or agriculture. New streets open up timberlands while damaging logging rehearses and impractical wood assortment can prompt a winding of debasement that in the end brings about deforestation.
* FARMING EXTENSIONS: In Australia, farming extension, especially for cows and goats is a significant cause of deforestation. This had nearly stopped after a 2006 prohibition on over the top tree-clearing, however quickened again after a debilitating of controls in Queensland in 2013.
* BUSHFIRES AND OVERGRAZING OF ANIMALS: Bushfires are additionally involved in loss of forests, and are thought to double because of environmental change. Over grazing has also been proved to be one of the determinants of deforestation and results in a huge loss of forested areas.

**IMPACT OF DEFORESTATION ON HUMAN HEALTH**

Deforestation is having another troubling impact: an expansion in the spread of dangerous infections, for example, dengue fever and malaria. For a large group of natural reasons, the loss of forests can go about as a hatchery for different lethal sicknesses that affect people. (Robbins, 2017)

* INSECT BORNE DISEASES: Deforestation isn't only an ecological issue but a public health issue. The closer people get to wild life, the closer they get to infections. The development of tropical sicknesses and episodes of new illnesses are all effects of deforestation. The emergence of Lassa fever in Australia is a result of excessive deforestation in the area. This has led to a number of diseases in the country and it has become really difficult for the people to fight and overcome these diseases. Many diseases which require contact are easily spread because even the forest areas have been turned into residential areas in Australia. This has resulted in the spread of a number of contagious diseases. Jungle fever is a specific issue in deforested and debased territories, however less so in forested zones where there are scarcely any stale ground pools for mosquito reproducing. These pools are generally plentiful in cleared districts and regions where tractors tear cuts in the earth. ("Impacts of the natural environment on health", n.d.)
* QUALITY OF AIR: Not only this, but it is the forests that actually help in the production of good quality air. It is impossible to have an oxygen rich environment if there are less or no forests because forests are the factories that improve the air quality and make it good enough for us to breathe. Exposure of contaminated air for a longer period of time can lead to a number of diseases which can affect not only the lungs but can also be a trigger to a number of heart diseases. Deforestation leads to contaminated air in the environments because there is nothing present to convert the carbon dioxide into oxygen which is the main basis of contamination. (WHO, 2013).
* SUN EXPOSURE OR UV RADIATION: Forests help in stopping a huge amount of direct sunlight to reach on the earth. Direct sunlight can actually be harmful as it contains excessive amounts of UV radiations which are not only harmful to your skin but can also lead to skin cancer.(Lucas, 2006) Deforestation is the reason why Australia has a huge number of people suffering from skin diseases.

**ENVIRONMENTAL ANALYSIS**

* BIODIVERSITY: Deforestation badly affects the biodiversity of creatures and plants. Many species have been lost in Victoria, Queensland, New South Wales, Western Australia and the Mount Lofty Ranges in South Australia. In many areas of Queensland, reptiles have declined. Many kinds of animals have been wiped out due to deforestation in the Mount Lofty Ranges of South Australia.
* ENVIRONMENT CHANGE: Deforestation influences nearby temperature and precipitation and causes it to change; it builds temperatures and decreases precipitation. In the course of the recent century, Australia has warmed about 1.0 degree Centigrade (1.8 degrees Fahrenheit). The physical procedure of chopping down forests by fire influences atmosphere by discharging a lot of the ozone harming substance, carbon dioxide into the air. Trees take up climatic carbon dioxide and convert it to vitality and oxygen. Deforestation causes less conversion of carbon dioxide into oxygen.
* SOIL SALINITY: Deforestation can actually contribute in making the soil of the land salty. According to the World Wildlife Fund, around 7 percent of western areas in Australia experience soil salinity because of deforestation. Water can deplete from the deforested land, affecting water quality and vegetation.
* SOIL FERTILITY: Deforestation causes a decrease in soil fruitfulness. It results in the loss of a lot of minerals which make the soil unable to grow crops in future. The evacuation of trees diminishes biomass above and beneath the ground.
* SOIL EROSION: Deforestation also leads to soil erosion. If there are no trees then it is very simple to maneuver land into waterways as there is nothing to hold down the soil.

**ECONOMICAL ANALYSIS:**

The travel industry is a fundamental source of economy for countries with a huge number of rain forests. Deforestation is radically chopping down the quantities of visitor in light of the fact that nobody needs to see contaminated waterways and dead creatures. So not exclusively is deforestation demolishing the living space of numerous plants and creatures; however it is likewise destroying the economy of the country. Other than that deforestation also reduces agriculture which ultimately results in loss for farmers as they do not grow many crops due to deforestation and this result in decline of the country’s economy.

**SOCIAL ANALYSIS:**

The stake holders who are the farmers and other personnel of the agriculture department go through excessive loss in making money because they tend to grow lesser crops comparatively. Evacuation of land for building apartments, for residential or other purpose leaves the stakeholders in great loss.

**CONCLUSION:**

Trees and forests are very significant for our environment and for our health. It is very important to aware as many people as possible about the effects of deforestation on environment, society and economy. Deforestation can actually lead to a number of diseases and is a sign of danger not only for wild life but for human life as well. Deforestation results in loss of shelter for the wild life of the country and also has a very dangerous effect on the health of the human beings contributing in the occurrence of a huge amount of diseases. If we want to make our soil fertile and prevent it from being very salty, it is very important to reduce deforestation because it contributes to them. It is deforestation which causes huge climatic change which contributes in having high atmospheric temperatures which is unable for people to bear. Forests actually help in reducing temperature and also add to the beauty of the country. Countries like Australia need to work on their system and try harder to reduce this issue as this might solve a number of problems of the country including global warming and health issues.

**RECOMMENDATIONS:**

* RECYCLE PAPER: People need to limit their paper use by utilizing gadgets like laptops and tablets or start recycling paper. This will help in saving a lot of trees from cutting down.
* SUSTAINABLE CHOICES: You can have any kind of effect in the battle to save forests by settling on educated day by day decisions. By expending less, evading single-use bundling, eating manageable food, and picking reused or mindfully created wood items, we would all be able to be a piece of the development to secure forests.
* AWARENESS CAMPAIGNS: In case we're going to stop deforestation, we need governments to do their part. We need world pioneers to start awareness campaigns to aware people how deforestation is adversely effecting our environment, health and economy. This way we can make them adopt sustainable choices as well.
* SETTING STRICT RULES: Strict rules and regulations need to be set up by the government in order for the people to follow and if any individual is seen breaking these laws, strict actions should be taken in order to set examples for other people who are planning to do that too in the future.
* PLANT MORE TREES: Start thing on individual level by planting your own tree, watering it regularly and by taking good care of it. this will not only contribute in making the environment green but will also help in getting enough oxygen for yourself.
* SKIP SINGLE USE PRODUCTS: Stop the use of single use paper plates or glasses and start carrying metal or glass products; this will also contribute in less utilization of paper.

**REFERENCES:**

* Stevens, M. (2017). What Is Environmental Sustainability and Why Is It Important. Retrieved 26 May 2020, from <http://www.sustainablefriends.com/what-is-environmental-sustainability-why-is-it-important/>
* Oladipo, E. (2015). GLOBAL IMPACT OF ENVIRONMENTAL SUSTAINABILITY ON DEFORESTATION. Retrieved 26 May 2020, from <https://www.ijser.org/researchpaper/GLOBAL-IMPACT-OF-ENVIRONMENTAL-SUSTAINABILITY-ON-DEFORESTATION.pdf>
* 10 facts about deforestation in Australia | Wilderness Society. (2018). Retrieved 26 May 2020, from <https://www.wilderness.org.au/news-events/10-facts-about-deforestation-in-australia>
* Blue, M. Deforestation Impact on Australia's Ecosystems. Retrieved 26 May 2020, from <https://education.seattlepi.com/deforestation-impact-australias-ecosystems-4387.html>
* How Australia became one of the worst deforesters in the world. (2018). Retrieved 26 May 2020, from <https://www.abc.net.au/triplej/programs/hack/how-australia-became-one-of-the-worst-deforesters-in-the-world/10452336>
* Robbins, J. (2017). How Forest Loss Is Leading To a Rise in Human Disease. Retrieved 26 May 2020, from <https://e360.yale.edu/features/how_forest_loss_is_leading_to_a_rise_in_human_disease_malaria_zika_climate_change>
* Impacts of the natural environment on health. Retrieved 26 May 2020, from <https://www.aihw.gov.au/getmedia/cfd6abd4-32fb-4995-835f-5e94dac7a827/aihw-aus-221-chapter-4-1.pdf.aspx>
* Derouin, S. (2019). Deforestation: Facts, Causes & Effects. Retrieved 26 May 2020, from <https://www.livescience.com/27692-deforestation.html>
* Savedge, J. (2009). 5 ways to stop deforestation. Retrieved 27 May 2020, from <https://www.mnn.com/family/family-activities/blogs/5-ways-to-stop-deforestation>
* Gonçalves, A. (2019). Do you hear the planet's call for help? Here are 5 steps to help stop deforestation. Retrieved 27 May 2020, from <https://youmatter.world/en/5-steps-to-stop-deforestation/>