

## GREEN HOUSE GASES: THE HUMAN RESPONSIBILITY

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### ABSTRACT

*Meeting the challenge of global warming requires sustained trouble over decades on the role of governments, whom should be concern with strict conduct. Although important is being done to reduce the emigration of green house feasts, the efforts are still not enough. Economical development and concern for the environment go hand in hand. However, surely one day we've to rue and our future generations suffering with ruinous Role caused by the climate differences, If our consideration is only for economical development disregarding environment. Effective governance has to be set up in developing countries. These countries are likely to produce a fleetly growing share of world green house gas emigrations in coming decades. Likewise, if developing countries are barred from emigration control, numerous energy ferocious diligences will simply resettle from the developed to the developing world and conceivably increase CO2 emigrations per unit of world GDP. Developing countries won't agree to control green house gas emigrations, still, the cost isn't so high to accept the given soberness and urgency faced by similar countries. The only net cost likely to be respectable is close to zero. The necessary conclusion is that effective control over emigrations will only be enforced at enormous cost to the taxpayers by the developed countries. Warming of the earth's face and lower atmosphere is caused by the increase in green house feasts (GHGs). GHGs cannot emit the terrestrial radiation emitted from earth, to escape through atmosphere in external space. Without this natural mask, earth's face would be about 30 degree Celsius lower than that of moment, i.e., the earth a freezing barren, breathless place like earth Mars. Rising temperature makes impacts its increases in ocean- position in the corridor of general warming of the earth, which in advanced attention results in Global Warming or rising of the temperature to hanging position. In addition, people have come more apprehensive of the fact that global warming cannot be avoided due to the uninterrupted increase in green house gas emigrations and the changes that brings in the climate system.*

**Keywords:** Development, Temperature, Emigration, Green House, Warming, Energy, Attention, Carbon.

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### Introduction

Global warming is observed and projected in the increase of the earth's average temperature. Nearly 100 percent of the observed temperature increase over the last 50 times had been due to the increase in the atmosphere of green house gas attention like water vapour, carbon dioxide, methane and ozone. The largest contributing source of green house gas is the burning of fossil energies leading to the emigration of carbon dioxide. There's a rise in temperature in other corridor of the world like the United States and the UK the most vulnerable impact takes place in India. The misgivings of global warming includes emigration rates for the various feasts and their atmospheric continuances and attention; the Role of similar attention on temperature Role wide range of variables of economical significance particularly husbandry and agro-based diligence. The study indicates that global warming affects India in numerous ways. Grounded on problems like rising ocean situations, effect on agrarian product, failure of water force, the effect of GDP will be non-linear. Out of these problems the study is grounded on Impact of temperature on economical pointers since if there's an increase in temperature there would be deplete

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in the GDP. Impact of temperature in husbandry and agro-based diligence as Indian husbandry is completely dependent on rainfall and Indian frugality constitute with this single largest element. The reason for change in temperature is due to the emigration of CO<sub>2</sub> and other feasts. Overall 72 percent of the completely emigration in green house feasts is carbon dioxide (CO<sub>2</sub>), 18 percent is Methane and 9 percent Nitrous oxide. Carbon dioxide emigrations thus are the most important cause of global warming. Hence an attempt is made to examine the impact of CO<sub>2</sub> emigrations on economical pointers, agrarian and agro-based product is analysed.

### **Role of Global Warming**

Ocean situations are rising due to thermal expansion of the ocean, in addition to melting of land ice. Amounts and patterns of rush are changing.

The total periodic power of hurricanes has been increased markedly since 1975 because their average intensity and average duration have increased (in addition, there has been a high correlation of hurricane power with tropical ocean- face temperature).

Changes in temperature and rush patterns increase the frequency, duration, and intensity of other extreme rainfall events, similar as cataracts, famines, heat swells, and tornadoes.

Other Role of global warming includes advanced or lower agrarian yields, the increased agrarian conditioning and organic waste operation are presumed to be contributing to the structure up of both methane and nitrous oxide in the atmosphere. Still, husbandry in general and Indian husbandry in roleicular isn't contributing significantly to global climatic change, as GHG emigrations from husbandry indicates.

Further glacial retreat, reduced summer sluice flows, species demolitions.

As a further effect of global warming, conditions like malaria are back in their places where they've been extinguished before.

Impact on Human Health Human beings are exposed to climate change through changing rainfall patterns( temperature, rush, ocean- position rise and further frequent extreme events) and laterally through changes in water, air, food quality, changes in ecosystems, husbandry, assiduity and agreements in the frugality. A qualitative assessment indicates that morbidity and humanity of the population in the regions under focus are likely to increase with warming temperature and variable rush as they've direct as well as circular Role. Direct Role can manifest as heat stress and circular Role can be in terms of vector borne conditions, water borne conditions and malnutrition etc. The increase of chloro-fluoro imitations in the atmosphere, leading to global warming will increase ultraviolet (UV) radiation in the atmosphere, affects the vulnerable systems and leading to contagious conditions. Vulnerability to important skin infections similar as leishmaniasis or leprosy might be increased by lesser exposure to UV light. The UV radiation affects the vulnerable system of the skin and hence, there might be an increased number of cases of skin cancer. Other minor Role are increased prevalence of skin diseases, similar as prickly heat, ringworm and athlete's bottom. Studies indicate that Malaria will continue to be aboriginal in current malaria prone countries (Orissa, West Bengal and southern corridor of Assam). It may shift from the Central Indian region to the south- western littoral countries of Maharashtra, Karnataka and Kerala. New regions (Himachal Pradesh, Arunachal Pradesh, Nagaland, Manipur and Mizoram) will come malaria prone and transmission duration will widen in northern and western countries and dock in southern countries. Global warming has various roles, ranging from provident, environmental as well as the health life of human beings. The effect of global warming on human health occurs largely in developing countries and affects utmost of the children. Poor people and the poor nations are the worst victims. The results affecting people health are killer heat swells, ruinous famines, ocean expansion, heavy downfall, littoral flood tide, fierce storms, and massive spread of the whole range of mosquito – borne conditions like malaria, dengue, chikungunya, encephalitis and unheroic fever. A large extent of water borne conditions like cholera, malnutrition, water failure, adding air pollution and disasters. Policy- makers need to work on strengthening the health- care systems, along with water and waste water systems.

### **Role of Humans in Global Warming**

Man- Made causes presumably do severe damage. The vital element that causes green house feasts is Carbon dioxide, Methane, Chlorofluorocarbons (CFC's), and Nitrous Oxide is released into the atmosphere by human exertion. In addition the burning of fossil energies (i.e., non-renewable resources similar as oil, coal, and natural gas) has a significant impact in adding substantial proportion of heat. The heavy use of power shops, buses, aero planes, construction of structures, and other man- made

structures release Carbon dioxide into the atmosphere and contribute to global warming. The rise in the attention of green house feasts is caused primarily by human and artificial conditioning. Global warming occurs due to deforestation. It's apparent, when timber land is destroyed; carbon dioxide is released into the air therefore adding the long- surge radiation and which traps heat in the atmosphere. As we lose millions of acres of rainforest in a time, we're also losing wildlife territories, our natural environment, and utmost vitally, a limited air and ocean temperature. Deforestation increases the rigour of global warming. By that carbon dioxide is released to maximum extent when shops die and decay, and also when forest and champaigns are cleared for human operation the carbon dioxide is stored in the atmosphere. Due to this conformation earth becomes a "Carbon Sink" which is stored in ocean. The ocean becomes a carbon Gomorrah where ocean water is converted as carbonic acid. By this the food chain for deep ocean living beings gets affected due to global warming. The storehouse of carbon Gomorrah in ocean is 50 times advanced than that of stored in the atmosphere. Carbon dioxide is really, the most important green house gas in the atmosphere. Changes in land use pattern, like deforestation, clearing of lands, removing husbandry, and other conditioning have all led to a rise in the emigration of carbon dioxide. Methane is another important green house gas in the atmosphere. About ¼ of all methane emigrations are said to come from tamed creatures similar as dairy cows, scapegoats, gormandizers, buffaloes, camels, and sheeps. These creatures produce methane during the cud- biting process. Methane is also released from rice and also from paddy fields when swamped during the sowing and harvesting ages. When soil is covered with water it becomes anaerobic or lacking in oxygen. Under similar conditions, methane-producing bacteria and other organisms putrefy organic matter in the soil to form methane. Nearly 90 of the paddy- growing area in the world is set up in Asia, as rice is considered staple food there. Methane is also emitted from tips and other waste dumps. However, carbon dioxide is emitted, if the waste is put into an incinerator or burnt in the open space. Methane is also emitted during the process of oil drilling, coal mining and also from oohing gas channels (due to accidents and poor conservation of spots). The " green revolution" in the 20th century, have allowed the growers throughout the world to use chemical diseases and ultramodern machines to produce further food than they did it ahead. One of the introductory factors of the green revolution is the development of nitrogen diseases that promoted a large growth in productivity of shops in the major field. Shops capture nitrogen naturally, but green revolution technologies have made adding further nitrogen to the shops by humans as similar adding further nitrogen on earth than all the shops emit in the world combined. A large quantum of nitrous oxide emigration has been attributed to toxin operation. This in turn depends on the type of toxin that's used how and when it's used and the styles of tending that are followed. Benefactions are also made by leguminous shops, similar as sap and beats that add nitrogen to the soil.

#### **Climate Change – The Severe Reason for Global Warming**

The future prognosticated impacts of climate change (IPCC 2004 report) includes that there will be a drop in snow cover Himalayas, erratic showers, rising ocean situations and an increase in the frequency and intensity of cataracts. As per below report, formerly there's substantiation of prominent increase in the intensity and/ or frequency of extreme rainfall events across Asia. With the adding trends in global warming, prognostications indicates climatic changes. The awaited increase in rush, the melting of glaciers and expanding swell are projected to impact the Indian climate particularly, in addition with an increase in prevalence of cataracts, hurricanes, and storms are as possible. Global warming is also posing a mammoth trouble to the food security in India with recreating and severe failure and ruining cataracts gulping the pastoralist land. Rising Temperature in the Tibetan Plateau is the cause of melting the Himalayan glaciers, it results in the large run, of fat water inflow in the swash Ganges, Brahmaputra, Yamuna, and other major gutters, on which may fluently wash down the conformation of deep gullies which make all husbandry insolvable. According to the Indira Gandhi Institute of Development Research, if the process of global warming continues to increase, performing climatic disaster would beget a drop in India's GDP to decline by about 9, with a drop by 40 of the product of the major crops. However, with immersion in the major metropolises of India like Mumbai and Chennai, If there's an increase in temperature at over to 2 °C in India it's projected to displace seven million people. The Concept of climate change is a serious problem. It's stressed that the climate change would have a disastrous impact on global climate, human and carnal life. The adverse impacts may range from surprisingly warm summers, warm layoffs, erratic downfall, adding frequentness of cataracts and hurricanes, rising ocean situations hanging littoral areas, famines, water failure and poor crop yields. Global warming would not only leads to loss of life and property, but also might beget a major reshuffle in foliage, fauna and cropping pattern in India. Worldwide it's agreed that one of the topmost challenges towards sustainable development in the 21st century is climate change. Climate change poses a serious trouble to

development and poverty reduction in the poorest and most vulnerable regions of the world. Its impact is formerly being endured across the globe. The poor are the most vulnerable to the Role of climate change, having the least resource from the status quo and minimum physical protection from environmental shifts. Utmost of India's poor live in pastoral areas that are directly dependent on climate sensitive resources similar as husbandry, forest, and swash water. India's diversity to Topography Mountains, gutters, forest, comeuppance, plagues – means that climate change would affect different regions in different ways.

### **Efforts needed to Meet Global Warming Challenges**

Meeting the challenge of global warming requires sustained trouble over decades on the role of governments, whom should be concern with strict conduct. Although important is being done to reduce the emigration of green house feasts, the efforts are still not enough. Economical development and concern for the environment go hand in hand. However, surely one day we've to rue and our future generations suffering with ruinous Role caused by the climate differences, If our consideration is only for economical development disregarding environment. Effective governance has to be set up in developing countries. These countries are likely to produce a fleetly growing share of world green house gas emigrations in coming decades. Likewise, if developing countries are barred from emigration control, numerous energy ferocious diligences will simply resettle from the developed to the developing world and conceivably increase CO2 emigrations per unit of world GDP. Developing countries won't agree to control green house gas emigrations, still, the cost isn't so high to accept the given soberness and urgency faced by similar countries. The only net cost likely to be respectable is close to zero. The necessary conclusion is that effective control over emigrations will only be enforced at enormous cost to the taxpayers by the developed countries.

### **Conclusion**

Climate is an important determinant of the geographical distribution, composition and productivity of forest. To reduce global warming the results suggests that having the right programs and institutions in place may help devaluate the Role of temperature shocks to some extent. Still, the necessary way to minimize the impact of climate change will have to be taken at both the country position and global position. In order to reduce the impact of changing rainfall patterns, arising request and low income husbandry will have to make significant macroeconomic adaptability. Climate change will affect the husbandry sector in various corridor of the country in different proportion. In India, husbandry and agro-based diligence is the single largest element of GDP. The sector contributes nearly twenty five percent of the summations GDP. It has direct impact on poverty eradication and is an important variable in employment generation. Also, Indian husbandry is principally dependent on climate for advanced productivity. Some important factors that play vital role are increase in temperature, wide geographic distribution, rush pattern and other climate variables. This indicates that hot region of the country will have a drop in productivity and cold regions may increase the food product. Hence there will be a change in place of food product and also a change volume of food product. Carbon dioxide is the main anthropogenic green house gas which in turn causes increase in temperature. The rise in temperature is largely due to man- made causes and incompletely due to natural causes. This extensively have an impact on crop yields, affecting force of ground and face water, change in hydrological cycle. The impact of climate change not only affect physical vacuity of food but also the income of people.

### **References**

1. Aggarwal P.K, Mall R.K (2002), 'Climate change and rice yields in diverse agroenvironments of India. II. Effect of uncertainties in scenarios and crop models on impact assessment'. *Climate Change* No. 52, pp. 331–343.
2. Bhattacharya S, Sharma C, Dhiman RC (2006), "Climate change and malaria in India", *Current Science*, Vol. 90, Issue 3, pp. 369-375.
3. Das, D.K., Kalra, N. (1995), 'Adjustments to weather variation through cropping systems and fertilizer use', *Fertilizer News*, Vol. 40, No. 5, pp. 11–21.
4. Gautam Dutt, "Reaching A Climate Agreement: Beyond the Copenhagen Accord", *Economic and Political weekly*, Vol. XLV, No. 17, pp. 24 – 30.
5. Hingane, L.S., Rupa Kumar, K and Ramanamurthy, B.V. (1985), 'Long term needs of surface air temperature in India', *Journal of Climatology*, Vol. 5, pp. 521-528.

6. Jayant Sathaye<sup>1</sup>, Shukla, P.R and Ravindranath, N.H, (2006), "Climate change, sustainable development and India: Global and national concerns", Journal on Current Science, Vol. 90 issue 3, February, p. 316
7. Kriti Bhardwaj, "Impact of Climate Change policies on the growth of the Indian Economy"Retrived:[http://www.greatlakes.edu.in/gurgaon/sites/default/files/IMPACT\\_OF\\_CLIMATE\\_CHANGE.pdf](http://www.greatlakes.edu.in/gurgaon/sites/default/files/IMPACT_OF_CLIMATE_CHANGE.pdf)
8. Lakshmi.R, "Copenhagen Climate Conference", Kisan World, Vol. 37, No. 4, (April 2010).
9. Malla, R.K., Bhatia, R. and Pandey, S.N. (2007). "Water Resources in India and Impact of Climate Change."Jalvigyan Sameeksha, vol. 22.
10. Patil R.R, Deepa.T.M, (2007), "Climate change: The challenges for public health preparedness and response: An Indian case study". Indian Occupation Environment Med.; 11:113–5. [PMC free article][PubMed]
11. Ravindranath N.H, Joshi N.V, Sukumar R. and Saxena A. (2006), "Impact of Climate Change on Forests in India", Current Science, Vol. 90, pp. 354.
12. Sanghi Apurva and Mendelsohn Robert (2008), "The Impacts of Global Warming on Farmers in Brazil and India", Global Environmental Change, Vol. 18, pp. 655– 665
13. Venkataramanan, M and Smitha (2011) "Causes and effects of global warming" Indian Journal of Science and Technology, Vol. 4 issue 3 ISSN: 0974- 6846, pp. 226-229.

