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Catching up with sustainable climate growth require short term commitments for long term goals

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Abstract
Increase in varied climate patterns such as droughts, irregular rainfall, floods, sea level rise and extreme heat are reshaping the existing physical and social landscape around the world. These changes are having an impact in todays lives and livelihood of millions of people around the world specifically in developing nations.

Keywords: Sustainability, climate, environment

Introduction
Sustainability is the common point between society, economy and environment and ecology to maintain a replicable and scalable connection. It is very important to study and analyze both natural and social sciences disciplines to understand the clear fundamentals of sustainable development which also includes space science, wildlife ecology and astrobiology. Shifting environment patterns like droughts, unwanted fires, increasing incident of floods, water stress and agriculture damage, the climate change is becoming a global threat. These events affect the livelihood and infrastructure badly, which is interlinked with both physical and social changes. Irregular temperature variations, sea level rise, extreme weather conditions, tropical storms, human health issues are all examples of climate change.
It is important for the common public to understand the reasons for the changes in climate. It is very important for the citizens around the globe, specifically in developing countries where demands are increasing due to the constant rise in population. Therefore, citizens need to take the smart initiatives of protecting the environment and working towards decreasing their carbon footprint in daily lives. This means taking simple steps to confirm that everyone is doing their part, such as; recycling, car-pooling, using public transportation, growing some part of their food crops using roof top or window farming.

Is growing population connected to climate change?
According to the current stats world population will touch the mark of 9 billion by 2050. Therefore, it will demand an increase in energy sources i.e., more demand of oil, gas and coal, etc. which will ultimately leads to increase in greenhouse gases and global warming. Literature studies show that developed countries are a major contributor to climate change as they consume the large share of resources due to high-class automatic lifestyle. But it's 21st century, the century of economic development and industrial race. Most of the developing nations majorly India and China, whose population is exponentially increasing with the constant rise in industrial development.
In addition to that increasing population leads to increase in global water stress and socioeconomic defects such as civil war.
A 2009 study of the relationship between population growth and global warming determined that the "carbon legacy" of just one child can produce 20 times more greenhouse gas than a person will save by driving a high-mileage car, recycling, using energy-efficient appliances and light bulbs, etc. Each child born in the United States will add about 9,441 metric tons of carbon dioxide to the carbon legacy of an average parent. The study concludes, "Clearly, reduced reproduction or global family planning can result into huge savings in carbon footprints as compared to the savings that can be achieved by changes in lifestyle [1].

Aim for Sustainable World
There is an instant requirement of both short term and long-term goals to tackle climate change both at national and international scale. All the nations should have an integrated vision to reach

its minimum emissions by 2050. Considering the goals includes the major policy changes that should be implied, and practices at rural and urban areas. We as citizens of the earth have equal responsibility to contribute in developing sustainable community by following simple smart strategies such as consumer choices that reduce energy use, study the environmental impact of the items you exploit the most, tell your workplace leaders to consider and develop smart energy and environment friendly options around your community. It is important to develop new lifestyle or adapt to the changing climate such as growing your own food crops will contribute to reduce your daily carbon footprint to some extent. The practical solution is window farming, which is to develop and set up your indoor farms, which will also maintain the internal temperature and air quality. Energy is also going to play an important card in climate change, carbon emissions etc. Technologist, policy makers, researchers and educators are trying their best to develop a suitable alternative energy source for increasing development in industrial and transportation sector [2]. New technologies like hybrid cars; biofuels from microalgae, solar and wind energy are the hot topics in the field of renewable energy. This market will take the control over carbon market and policies.

Civil engineers play a key role in climate change. They have to develop the infrastructure by focusing the various goals of anticipating, mitigating, and adapting to the impacts of climate change. Also, to educate the general public about the effects of climate change considering policies at the regional and national level in terms of research and developing standard practices for both rural and urban regions. They have to keep in mind about the impact of climate on developing highways, waster water plants, and bridges to ignore any destruction towards human well-being [1].

Conclusion

Global climate change is happening and increasing temperature from last 50 years is due to anthropogenic activities, majorly due to extensive use of fossil fuels. There have been recent disastrous events, which have increased the threat to human life both socially and economically. The global emissions by people will continue to increase, which needs some urgent green action.

References

1. http://www.biologicaldiversity.org/programs/population_and_sustainability/climate/
2. http://www.scientificamerican.com/article/10-solutions-for-climate-change/
3. http://blogs.asce.org/civil-engineers-have-a-key-role-to-play-in-adaptation-to-climate-change/