

SDG 13 – CLIMATE ACTION

By: Nandhika A Kumar

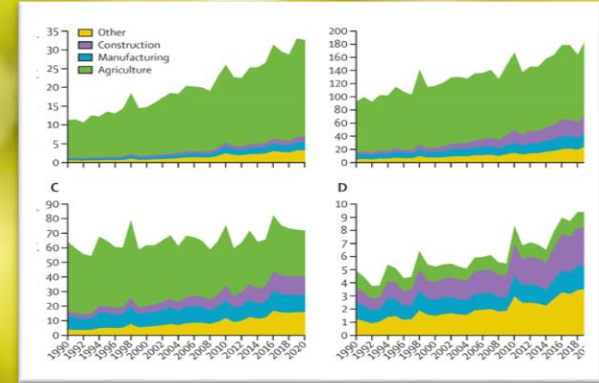


What is SDG 13- Climate Action

This goal aims to reduce natural disasters and other climate related issues such as global warming. It also focus on the proper awareness to the citizens and making them to know their responsibility to achieve this.



Why is it so important?



To protect us from various diseases like cholera, asthma etc.

To preserve our ecosystem from extinction.

The concentration of carbon dioxide (CO_2) in our atmosphere is the highest it has been in human history. Hence there won't be enough oxygen for us to breathe.

Current Challenges

Coral reefs would decline by 70-90 % with global warming of 1.5°C.

The ocean has absorbed 20–30% of total anthropogenic carbon dioxide emissions in recent decades.

Agriculture, forestry, and land use change generate up to 29% of total greenhouse gas emissions.

37% of heat-related deaths are due to human-induced climate change.

What can we do?

If we, 1.2 billion youth work together, we can make a great difference in the world. If each one of us do our small responsibility, we all can control climate change.



My Project: “Climate Change- Do Not Engage”

Through this project, I mainly focused on the simple ways to prevent climate change, as it is one of the concerning issue in the entire world. This project includes my actions and ideas for a healthy and climate change free world. “Climate- Change – Do not Engage” is divided into four sections which are essential for preventing climate change and global warming . I thoroughly enjoyed contributing to this project.



View 1 - Awareness

Awareness is one of the main ways to let citizens know about the current world and especially the youth, who are the next carriers of our world's visions and dreams.

Held Awareness program in the School on climate change and global warming



View 2 – Real life issues

“ Actions speak louder than words” . This made me go out and explore the different parts of my area that needs improvement.

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Addressing the garbage issue



View 3 – Caring the Environment

Planting and caring trees are an important factor that help us prevent climate change. This view includes, planting of trees, removing of plastics, participating in awareness campaigns.





Environmental Care – Planting and caring trees





Participating in many awareness campaigns





Swachh Bharath



View 4 – Current challenges

In this view, I collected information regarding the major challenges in my area and researched on the solution.

Current Major Challenges



NDTV

'Don't Work-From-Home, Go Home': Water Crisis Drives Bengaluru To The Edge

in India Today

Exposed: How Bengaluru's water mafia is exploiting IT city's water crisis - India...



... **BBC**

Bengaluru: Water crisis shakes India's Silicon Valley



What is the real problem?

Bengaluru, in India has a severe water crisis due to a lack of rainfall, which has depleted groundwater sources this is because Bengaluru is situated on a fractured hard rock aquifer, but this has been so over-extracted that the city is sinking .

What is the solution?



Idea : By using coconut husks

Why coconut husks ? : Coconut husks absorb water and become hydrated when exposed to it.



More Detailed Explanation

Since, coconut husks absorb water and retains it for a long time. While raining, the rainwater will get absorbed in these husks and they will keep the soil moist and prevent it from being dry. In this way, a small amount of water will get absorbed and will remain for long time and provide moisture to the soil which automatically adds water into the ground which lessens water scarcity and droughts which are caused by excessive hotness which creates climate change and global warming.

How can we implement it?

Suitable places: This can be done in farmlands, around the borewell to ensure moist soil.

Procedure: Take some coconut or tender coconut , which are very much easily available in India, break it and only remove the outer husk of it and you will get the coconut husk, lay it over side by side and arrange them in the soil (like the picture given above).

A Simple Model



This a simple model in which I used to experiment coconut husk absorbing water and making the soil moist. You can see water pouring out while squeezing the coconut husk .

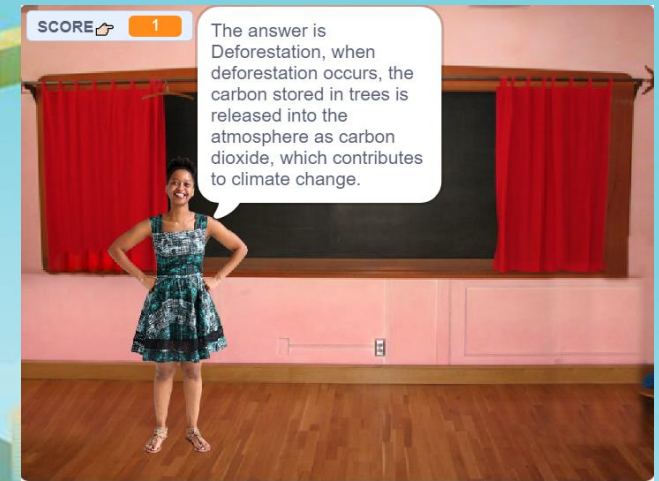
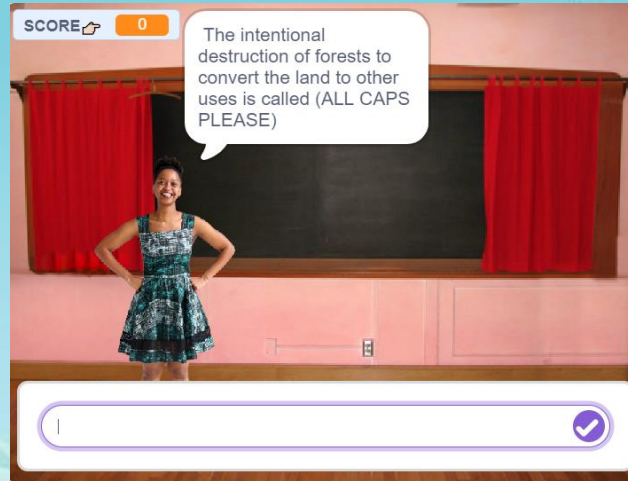


Solution: Awareness Game

My motive was to find a way to combine traditional and modern way of spreading awareness. After all the planning, I was able to program a special awareness quiz game. This helps the people attend quizzes and also inculcate awareness in them regarding the devastating effects of climate change.



Game: "Climate Change- Do not Engage "



This is a fun learning game where the people gets entertained with questions and get their explanations related to global warming.

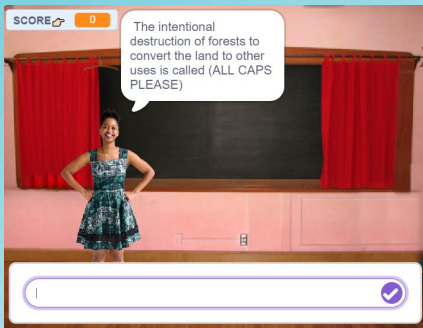


Link and QR code to my project:
<https://scratch.mit.edu/projects/988750094/>

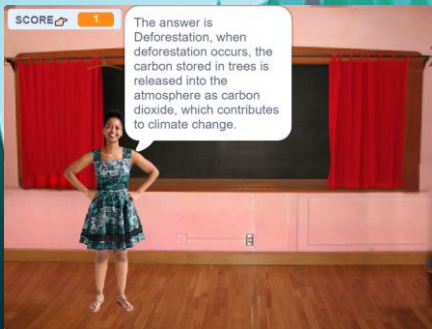
How to Play! – 3 Simple steps



Step 1 : Click on the link, press on the green flag, and enter your name.



Step 2 : You will be leaded to some questions related to global warming with an explanation.



Step 3 : Type the correct answer, score and enjoy!

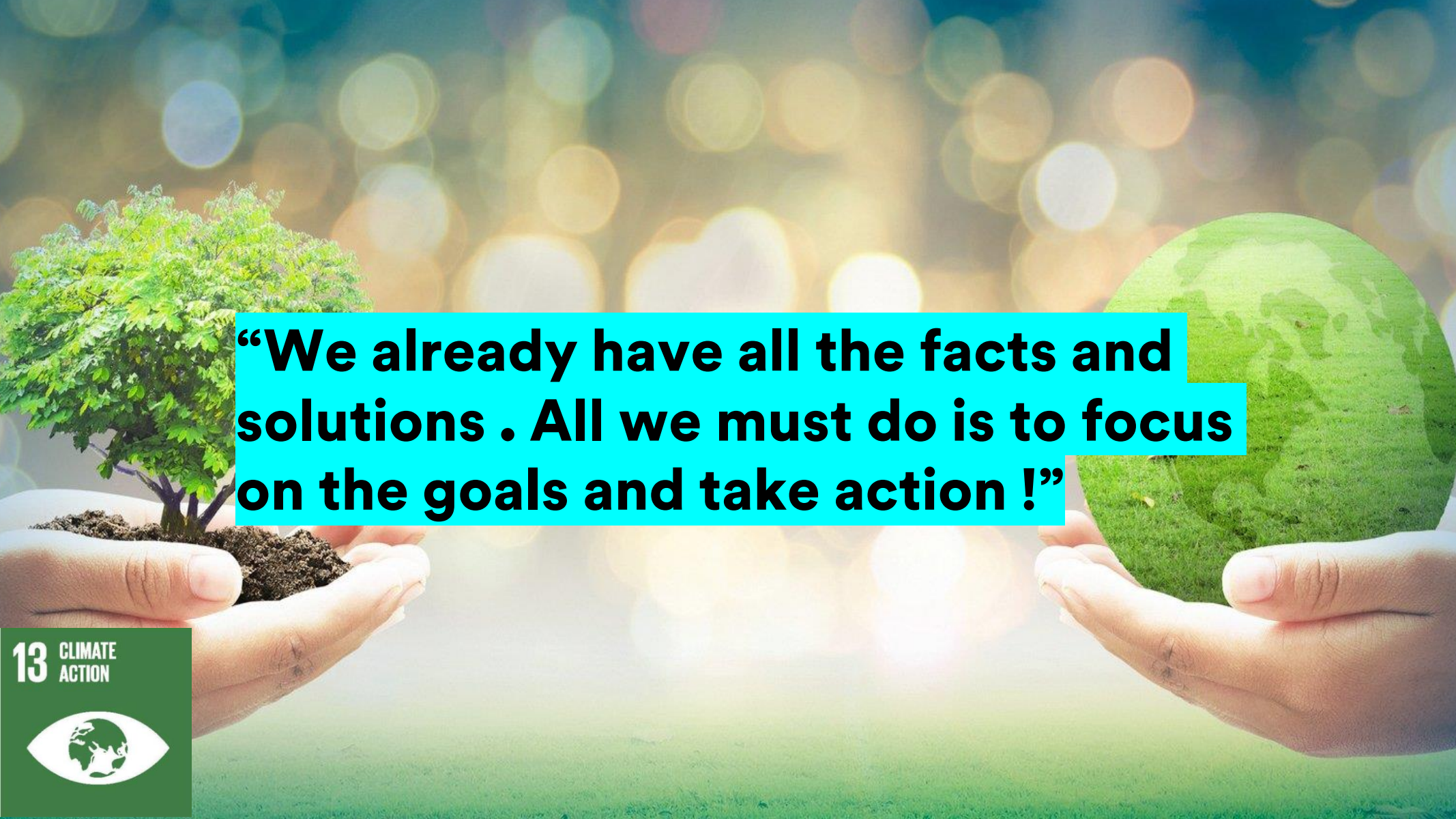


India's Net Zero Target:

It is a target of completely reducing the amount of greenhouse gases produced by human activity, to be achieved by reducing emissions and implementing methods of absorbing carbon dioxide from the atmosphere. India pledges to achieve “Net Zero “ by 2070. This is one of the great methods to prevent climate change and a step towards a healthy world.

Conclusion

SDG- 13 – Climate action is one of the major issues we are facing today. This not only effects the life of humans but also the entire ecosystem, hence, there is a need to stop climate change. It increases the poverty rate in the world especially in the economically unstable areas. It also affects cultivation and food availability. It can cause a lot of diseases which are harmful to human beings. Climate change also increase the depletion of the ozone layer. Ozone layer protects us from the harmful ultraviolet rays from the sun. So, let us all work together because “ **T**ogether **E**veryone **A**chieves **M**ore”.



“We already have all the facts and solutions . All we must do is to focus on the goals and take action !”

Reference Data:

<https://www.iea.org/news/global-co2-emissions-rebounded-to-their-highest-level-in-history-in-2021>

[https://climate.nasa.gov/explore/ask-nasa-climate/3273/vanishing-corals-part-one-nasa-data-helps-track-coral-reefs/#:~:text=A%20special%20report%20in%202018%20from%20the,99%20decline%20at%202%C2%B0C%20\(3.6%C2%B0F\)%20of%20warming.](https://climate.nasa.gov/explore/ask-nasa-climate/3273/vanishing-corals-part-one-nasa-data-helps-track-coral-reefs/#:~:text=A%20special%20report%20in%202018%20from%20the,99%20decline%20at%202%C2%B0C%20(3.6%C2%B0F)%20of%20warming.)

<https://www.worldbank.org/en/topic/climatechange/overview#:~:text=Together%20with%20forestry%20and%20land%20use%20change%2C,and%20the%20adoption%20of%20climate%2Dsmart%20agricultural%20practices.>

<https://marine.copernicus.eu/ocean-climate-portal/ocean-acidification>

<https://www.who.int/news-room/fact-sheets/detail/climate-change-and-health#:~:text=Climate%20change%20induces%20both%20immediate%20mental%20health,of%20heat%2Drelated%20deaths%20to%20human%2Dinduced%20climate%20change.>

[COP26: India PM Narendra Modi pledges net zero by 2070 \(bbc.com\)](#)

Reference Pictures (Background):

<https://www.istockphoto.com/photos/climate-change-children>

<https://www.sos-childrensvillages.org/news/climate-protection-and-child-protection>

<https://datacentremagazine.com/articles/the-search-for-sustainable-solutions-in-the-cooling-sector>

<https://www.global.hokudai.ac.jp/climate-change/>

<https://temperatures.com/weather-and-climate/the-impact-of-global-warming-since-1998/>

<https://group.ntt/en/csr/nature/challenge01.html>

<https://www.primeglobal.net/news/the-esg-transformation-hw-co>