

# IMPACT REPORT - IAHV CLIMATE ACTION NOW NOV 2022 - MARCH 2023 by Shailen Mittal and Charles Appleby



## Tree Numbers, Carbon removal and employment generated

As the project awaits accrued funding from our key partners (due in April), below is the last published visual tracker of our impact numbers. Another interim report will be published in a couple of months when we'll update the impact figures.



## Planting Trees enables families to afford education and improve their lives



Impact Story: The benefits of a fair wage in Eliene and her team's lives. By earning a fair and consistent wage, Eliene and her team in Brazil have the tools they need to live better lives. Read the full story here: [www.edenprojects.org/stories/eliene-story](http://www.edenprojects.org/stories/eliene-story)

## Rotary Meeting at Waterloo on 23 March 2023

IAHV's Key partner - Rotary London District invited Charles Appleby and Shailen Mittal as guest speakers in their Westminster and Passport club environment forum. We presented the situation on global warming, the importance of planting trees and mutual goals to hit the 1 mn tree mark as well as fundraising of 200 copies of the graphic novel - Let's Save our Planet, for distribution in various schools in and around London.



## Meeting with Rob de Laet at Paddington, on 11 March 2023

Rob is a European Climate pact Ambassador from Holland, and holds extensive knowledge in the science of Climate Change. We discussed the interaction of atmospheric hydrology of our beautiful living planet with its forests, melting glaciers and the drive of reforestation. We discussed specific innovations to stabilise the climate and even cool the planet. There is a significant missing piece in the global race for mitigation of global warming. Indeed, understanding the science behind Climate Change is a constant journey of discovery, evolution and learning!



## Meeting with Gurudev Sri Sri Ravi Shankar, on 13 January 2023

The entire team of IAHV UK including all its service project leads and key volunteers presented to Sri Sri, co-founder of IAHV, progress reports and discussed plans for the next 3 years, at The Shard, Shangri-La Hotel, London Bridge, UK. Key questions were answered around strategic directions and pathways for each humanitarian, social and environmental project. This included the IAHV Climate Action Now work around reforestation, generation of employment, removal of carbon and an in-principle approval of a massive afforestation project in Brazilian Amazonian region, involving local communities.



## More Trees mean more Rainfall preventing desertification

Do more trees mean more rainfall? Well, increasing attention is being given to this because there is serious concern that Amazon Rainforest could dry out, and turn to Savannah!

Why? Because there has been so much deforestation - with something like 20% of the Amazon having been cut down for agriculture, for logging and because of fires both natural and intentional.



So, experts are increasingly looking into the value of trees to create increased rainfall. This is so important to us all, as the Amazon Rainforest is critical to removing CO2 for the whole world.

Learn how it works in just the first 2 minutes, from this really interesting video: How Plants Cool the Planet by Jimi Sol. It's just 5 minutes. See: [youtube.com/watch?v=B-oJylnmTTo](https://www.youtube.com/watch?v=B-oJylnmTTo)

## But Rainfall is reducing because of Deforestation

Recent research suggests that "so much tropical forest has been cleared globally over the past two decades that the tropical forest heartbeat has started to slow, resulting in less rainfall in the surrounding regions."

"Tropical forests are often referred to as the "lungs of the world", describing the way their trees exchange gases with the atmosphere. By "breathing in" carbon dioxide and "breathing out" oxygen during photosynthesis, tropical forests remove about 15% of man-made carbon emissions and help to slow climate change."

"This is not the only way tropical forests influence the climate, however. Anyone who has walked through a woodland on a hot day will know that trees have an immediate cooling effect. As well as shading the ground, trees draw water up from the soil and release it through tiny holes in their leaves called stomata. By doing this, trees cool their environment the same way evaporating sweat cools our bodies."

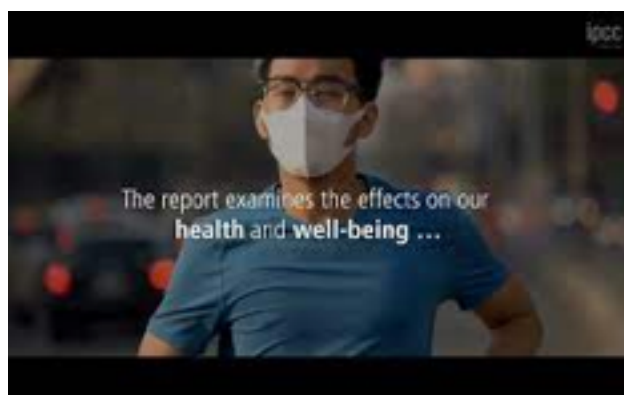
"By pumping water from the land into the air, tropical forests also function like a heart. Water sucked up by tree roots is pumped back into the atmosphere where it forms clouds which eventually release the water as rain to be reabsorbed by trees. This cycle can occur multiple times as air moves over large forests. In fact, it's critical to the survival of forests situated far from the ocean. In the Amazon and Congo river basins, somewhere between a quarter and a half of all rainfall comes from moisture pumped from the forest itself. This recycling of moisture helps to maintain the large amounts of rainfall tropical forests need." Source:

<https://phys.org/news/2023-03-rainforests-tropicsbut-pulse-heart-weakening.html>

## Latest IPCC Climate Report AR6 on 20 March 2023

The latest IPCC Report dated 20 March 2023 presents a very serious situation not only for humanity but for all life on earth.

"We are at the tip of the tipping point" said Antonio Guterres, UN General Secretary."



ENVIRONMENT

**IPCC releases 6th synthesis report on global climate change: 'Humanity is on thin ice'**

Talking about work so far to stop global warming the report says:

"The pace and scale of what has been done so far, and current plans, are insufficient to tackle climate change."

"Climate, ecosystems and society are interconnected. Effective and equitable conservation of approximately 30-50% of the Earth's land, freshwater and ocean will help ensure a healthy planet." Planting more trees has the potential to remove 10% of global CO2 emissions

## Pictures from the Reforestation sites



*Eden Reforestation Project commemorated International Women's Day: Across all its Project nations, women make up nearly 50% of the workforce.*



*From the nursery to the field, our teams take innovative measures to help our restoration sites reach their potential. To safely transport mature, ready-to-plant seedlings from the nursery to our Antsanitia restoration site, our team covers the seedling's roots in mud and wraps them in banana leaves. Doing this helps ensure the roots don't dry out during transportation and keeps them healthy until they are planted in the ground. — in Madagascar.*



## Pictures from the Reforestation sites - continued



*By collecting and planting mangroves, our teams in Mozambique help protect coastal communities from natural disasters, improve ocean health, and build the local economy by facilitating community development. We are working directly with over 900 community members to restore over 13,800 hectares of land in Mozambique.*



*Seed collection is an essential part of the restoration process. For example, in Brazil, we collaborate with local communities to form a network of trained seed collectors at each site. In 2022, more than 28,000 kilograms of seeds were collected, which allowed us to begin restoring more than 300 hectares of land in Brazil.*

*Our international teams are dedicated to planting trees across 10 nations in remote and hard-to-reach areas. In the Philippines, our planting team is seen transporting seedlings along the rocky slopes of Mt. Kibuwa. They work to facilitate holistic landscape restoration and combat the effects of climate change. Join us to positively impact the environment by donating today at [globalgiving.org/projects/climate-action-now/](https://globalgiving.org/projects/climate-action-now/)*



## Pictures from the IAHV Climate Action Now meetings



*Charles Appleby presenting to Rotary London various proposals to plant trees*



*Shailen Mittal and Rotarians discussing plans for a River cleaning event in June 2023*



*Honey Kalra, Chairperson, Environment Committee, Rotary London District & Shailen Mittal, showcasing the book on Climate Change for schools, in 4 languages.*



*Key Organisers and the Guest Speakers in the IAHV Climate Action and Rotary meeting. After a successful 3.5 hours long session.*

- Honey Kalra, Chairperson, Environment Committee, Rotary London District
- Shailen Mittal, Project lead IAHV CAN
- Charles Appleby, Founder NOC02

Write to [ClimateActionNow@iahv.org.uk](mailto:ClimateActionNow@iahv.org.uk)

*Thank you for your support!*

