Climate Change

A Rotarian's

Viewpoint

THE FOUR-WAY TEST AND CLIMATE CHANGE

Is it the truth? – By 2020 198 scientific organizations worldwide had formally stated that climate change has been caused by humans.

Is it fair to all concerned? – The Developed World has created most of the excess CO2. The underdeveloped world will suffer more, and has least resources and ability to adapt. (e.g. Pakistan: <1% CO2, one of ten most vulnerable)

Will it build goodwill and better friendships? – Without serious action to ameliorate CO2 production, there will be greater stress on livelihoods of many people in underdeveloped countries, leading to conflict and desire to migrate. How can Rotarians help?

Will it be beneficial to all concerned? – The effects of climate change are wideranging, and will affect essentially everyone on the planet. What we do as Rotarians will benefit us, but also the global population.

ALBERTA TEMPERATURE CHANGES REPRESENTED AS COLOUR BARS



Image from: <u>https://showyourstripes.info/l/northamerica/canada/alberta</u>

CALCULATING MY ECOLOGICAL FOOTPRINT



Source: http://www.footprintcalculator.org/home/en



HOUSING

What material is your house constructed with?

Straw/bamboo
Brick/concrete

O Adobe

Wood

Steel/other











Are my wife and I typical for Rotarians of our club?

What can we do individually to improve our situation?

What about the millions of people who aspire to our lifestyle, and currently consume less than 1 Earth?



Acting in our own home is difficult to make a big difference. But small things help, for example:

- LED lightbulbs
- High efficiency furnace
- Good quality windows and airtight seals

Mostly we just live in very large houses that require a lot of energy, and we drive personal cars too much. Both of those factors are hard to change without a major change in lifestyle.



Air travel by my wife and me is 1/6 of our total impact Buying offsets for air travel may costs you about 5% of a ticket

CARBON EMISSIONS PER PERSON BY COUNTRY

United States Australia Canada China United Kingdom Zimbabwe Yemen 16 tonnes/year 17 tonnes/year 16 tonnes/year 7.4 tonnes/year 5.5 tonnes/year 0.7 tonnes/year 0.4 tonnes/year

The richest 10% of people in the world produce 50% of the CO2 emissions. The richest 1% of people in the world produce twice the CO2 of the poorest 50% of the people.

The biggest individual producers of CO2 are large oil and gas companies. The biggest single institutional producer of CO2 is the U.S. Military.

Source: Saving Us; Katherine Hayhoe, 2021

CARBON FOOTPRINT BY COUNTRY

Canada/USA	8 Earths
Australia	7 Earths
United Kingdom	4 Earths
China	3.7 Earths
India	1.2 Earths
Least developed countries	< 1 Earths

If Everyone on Earth lived like North Americans, we would need 5 Earths.

At this time, the average global deficit is 1.1 Earths.

Source: Saving Us: Katherine Hayhoe, 2021

THE END

OR THE BEGINNING OF AN ENDLESS DISCUSSION, HOPEFULLY ABOUT HOW WE EACH CAN ACT

See also:

https://esrag.org/wp-content/uploads/2022/11/ESRAGs-Policy-Statement-on-Climate-Action.pdf