THERE IS NO PLANET B

THE TIME TO ACT IS NOW



My Background

- ☐ Grew up in upstate New York. Graduated from SUNY Buffalo.
- ☐ Moved to San Jose in 1984.
- □ 15-year career as a test engineer in high-volume disk drive manufacturing.
- Career change to





STRIKE APR 22

DIVEST APR 23

> VOTE APR 24

earthdaylive2020.org

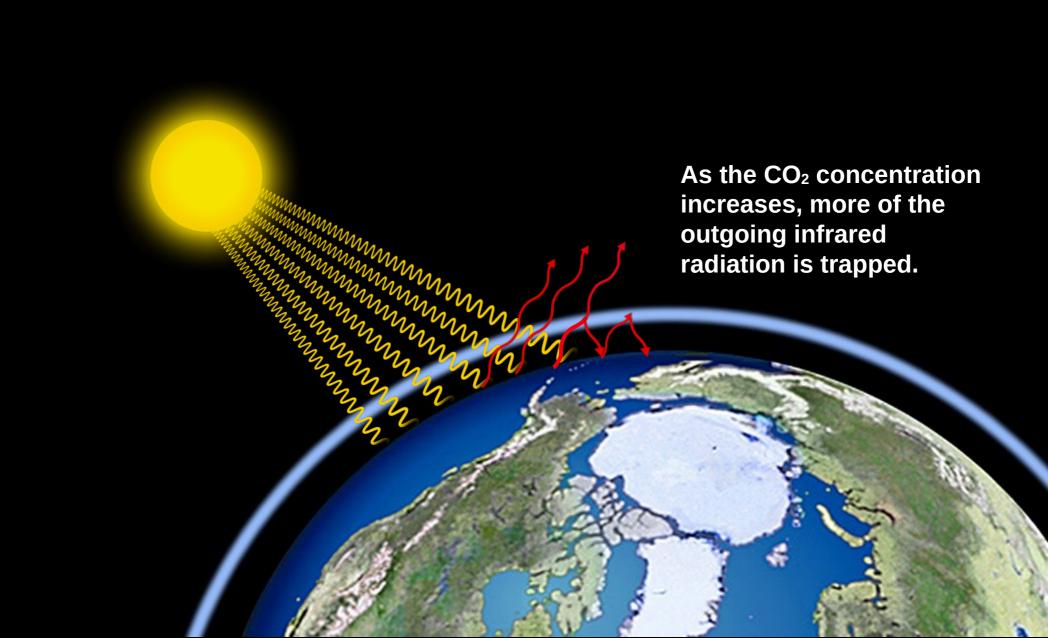
Climate Change Science and the Climate Crisis

Burning fossil fuels is a combustion reaction

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Organic

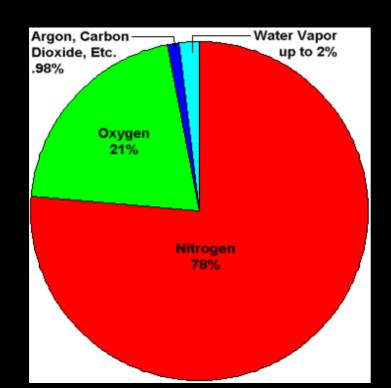
Molecules + 0<sub>2</sub> ---> CO<sub>2</sub> + H<sub>2</sub>O + Heat

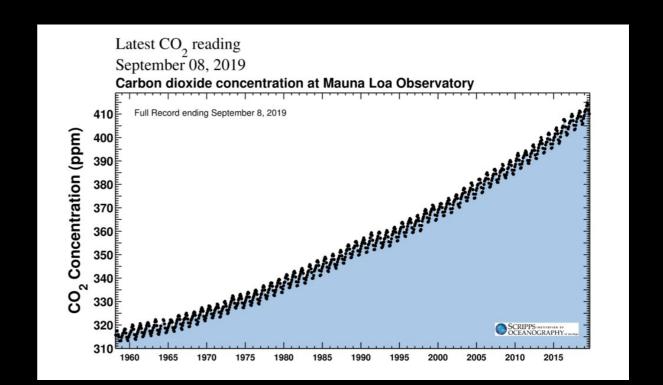
with (C,H and O)
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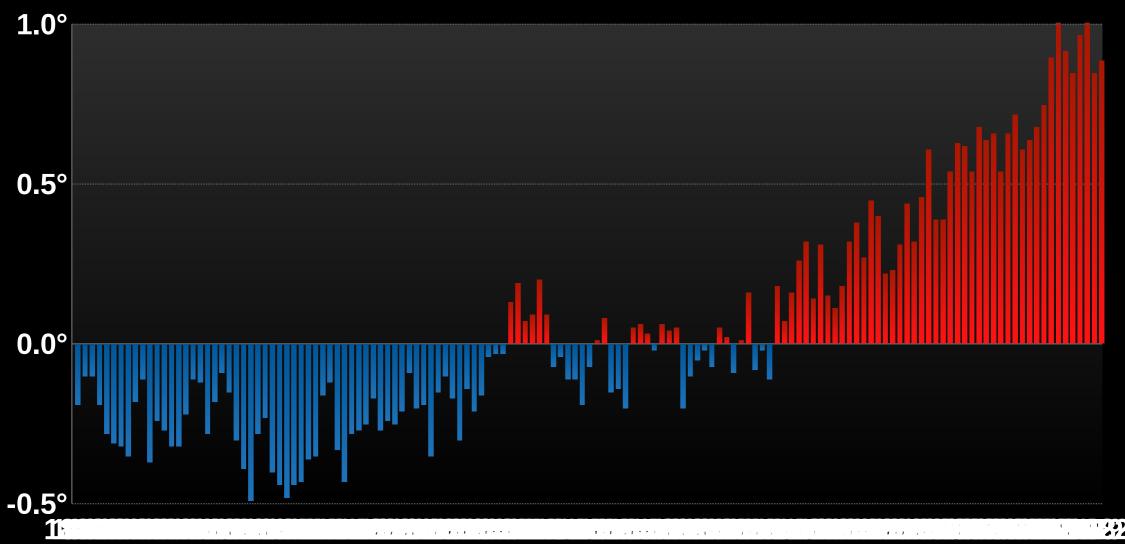
Small changes in atmospheric CO2 have big effects

- CO2 Makes Up Just 0.04% of Earth's Atmosphere.
- CO2 concentration is currently 420 PPM. Scientists believe that 350 PPM is healthy target.





Global Surface Temperature – Departure from Average 1880 – 2022



The Climate Crisis

- Nature captures solar energy and stores carbon in the geosphere. By burning fossil fuels we are undoing nature's work and turning Planet Earth into a hot house.
- Climate tipping points will likely be crossed by 1.5°C to 2.0°C of warming.
- Natures requires biodiversity for ecosystems to fully function and sustain all forms of life. We are in the midst of a 6th mass extinction, an extinction we are causing by burning fossil fuels.
- Oceans are where life began. Marine phytoplankton produce half of the atmospheric oxygen and are threatened by ocean

warming and acidification

The Climate Crisis is Accelerating

- Europe is warming up faster than any other continent, and the heat is deadly, REBECCA HERSHER, NPR, April 22, 2024.
- Ocean heat is driving a global coral bleaching event, and it could be the worst on record, REBECCA WRIGHT, CNN, April 15, 2024.
- Planet inched closer to 'scorched Earth' 2023 global temps were the highest on record, RAYMOND ZHONG AND KEITH COLLINS, New York Times, Jan. 10, 2024.
- The Thwaites Glacier is expected to slide into the ocean in 5 years.
- Coral reefs will go extinct with 1.5-2.0 degrees Celsius of warming.

Climate Solutions and Activism

What can a concerned citizen do about the climate issue?



Personal Actions for a Healthy Planet

- Decide on a timeline to remove natural gas appliances from your home. (Gas stove, hot water heater, gas furnace.)
- Turn down the thermostat in the winter. (Average of 58 degrees Fahrenheit is livable.)
- Weatherize your home to save energy.
- Purchase an EV. Take public transit whenever possible.
- Put up solar panels.

Use Your Influence for a Healthy Planet

- Vote for the climate.
- Talk to your family, friends, and coworkers about the climate.
- Contact your local, state, and federal representatives about your climate concerns.
- Join a climate organization Citizens Climate Lobby,
 The Climate Reality Project, Third Act, Climate
 Action California.
- Lobby for climate legislation.

California Is In the Room Where It Happens

- California is the 5th largest economy in the world and is leading the way on many climate policy issues.
- California has a super-majority of politicians that can get things done for the climate. But there are crosswinds that are slowing down progress.
- 40-million Californians can apply political pressure for urgent climate action.
- Our children are our future. We need to lead on the climate issue and not follow.

Thank you for attending!

Lisa Oliver

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Citizens' Climate Lobby – Silicon Valley East

Climate Reality Project – Silicon Valley



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 - Our Planet | How to rewild our planet
- Earth in the Balance, Ecology and the Human Spirit by Senator Al Gore.
- The Sixth Extinction: An Unnatural History by Elizabeth Kolbert.
- The Three Ages of Water, Prehistoric Past, Imperiled