

Climate Change

Problems - - - - - Solutions

Problem Summary:

Our atmosphere is made of many different kinds of gasses, and some of those help to regulate the temperature of our planet. These are called greenhouse gasses. One important greenhouse gas is carbon dioxide (CO₂). Today, due to fossil fuel burning (gas, coal, and oil for cars, planes, trains, trucks and to make electricity) and deforestation we have more CO₂ in the atmosphere than at any time over the past 800,000 years, and it is still climbing. This increase in CO₂ is causing global average temperature to increase, and if this continues, there will be very serious problems for the earth (agriculture breakdown, species extinctions, extreme weather events, etc.) by the year 2050 at the latest. For more information on the problem you can refer to the NASA website: <https://climate.nasa.gov/> But, there are many solutions to this that are currently in place.

Solutions:

An organization called “Drawdown” has recently published an impressive plan for how we can level off this increase in CO₂ in our atmosphere and keep global average temperature from rising by mid century. In this project you will learn about these technologies.

Project:

For this assignment go to the Drawdown website (link below), scroll down to “Solutions By Sector”. There will be nine boxes with titles. Click on any box and more will open up. Each box is a different technology or lifestyle pattern--a climate solution.

- 1) **Browse the list**, take your time, and then choose **at least two** (more if you have time...)of the solutions on the list that seem the most interesting to you. Take your time deciding, there are many cool topics to browse!
- 2) **Create a slide show that includes:**
 - a) Brief description of the solution
 - b) The effect it will have--how much does it lower CO₂ levels?
 - c) Add a photo if you can, and any other information about it that seems interesting to you.
- 3) **Turn in your slide show** when completed.

Drawdown website: <https://www.drawdown.org/>