

Gas Emissions

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Our Challenge

- Our big challenge is to find a solution to the gas emissions that are harming our environment and also damaging the earth for our future generations.
- Greenhouse gases have far-ranging environmental and health effects. They cause climate change by trapping heat, and they also contribute to respiratory disease from smog and air pollution.
- Extreme weather, food supply disruptions, and increased wildfires are other effects of climate change caused by greenhouse gases.



What solutions for Climate change has been used in other communities?

In London due to the accessibility of public transportation like the tube, or buses. They fine people that drive their own car into the city and the rate in which they do is based upon how much emission is put into the environment.

Why is this relevant to climate change?

A huge contributor to climate change is emissions. An astounding 60% of emissions is due to transportation.



What solutions for Climate change has been used in other communities?

Another example of a solution used in other places to remedy climate change is certain European countries, such as Luxembourg, Malta, parts of Italy, etc, making their public transportation free for people to use.

Why is this relevant to climate change?

This is relevant because they made this change in an effort to reduce the pollution of cars and make an alternative more accessible.



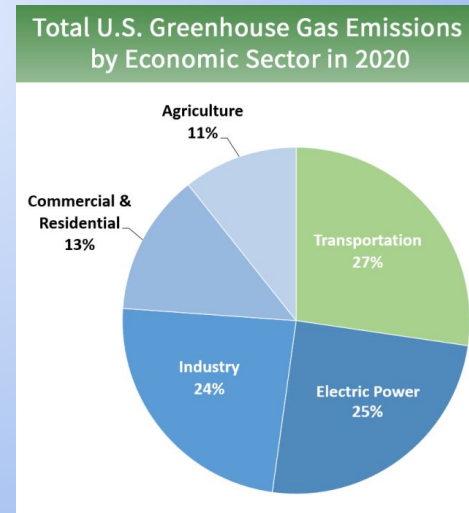
Lessons Learned

We learned about the biggest sources of carbon emissions within the United States. Carbon dioxide emissions have increased as technological advancements have been made in recent years. These emissions have a significant impact on our health and the health of our environment. We discovered that the biggest contributors are things that we can adjust in our personal lives to make an impact.

We have always known that monitoring our carbon footprint was important, however our research opened our eyes even more. It stressed to us that to make change, everyone in the community must adapt to really see a positive effect.

Existing Conditions pt.1

60% of gas emissions are caused by transportation. It can be a challenge because not everybody can get around by electric cars or bikes to help better the planet. What can help is to carpool with family and friends if possible, and to. These emissions are mostly coming from the vehicles we use to get around, and the gas stoves we use to heat up our food.



Existing Conditions pt.2

We got only four responses in our survey, but one man said he does ride the bus, but would not want his wife or kids to ride the bus due to its safety issues. Safety is a big factor to the dangers of anyone loitering around and there being well run security cameras. Also, due to the dirty and unkept conditions, many feel like they would get sick and catch something being in these areas.



Short-term recommendations

By trying to use your car less, you might help you save about 2.6 tons of carbon dioxide. Doing these little things to the transit mall will help make a difference such as:

- Getting more lights around the transit
- Get volunteers to help clean up the place.
- Try to get all around security due to the homelessness and overall danger
- Try keeping the buses clean (actually cleaning them after a day use).
- Good working cameras in the buses and the transit.



Long-term recommendations

Our strategy is to get gas cars off the streets and replace them with cleaner battery powered vehicles. With this we hope to completely transfer to electric vehicles to stop the massive carbon footprint. My first thought of partner when it comes to electric vehicles is Elon Musk. Considering he is already making safer, more efficient electric cars. But not just Elon is working on transferring to electric. Here in California, Sonoma Clean Power is working to try and make that transition and is already helping to give residents the clean and renewable energy we need.



**Sonoma
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The logo for Sonoma Clean Power, featuring a stylized graphic of three horizontal lines (two yellow, one blue) to the left of the company name.

Long Term Recommendations

Our main goal isn't just to get more electric vehicles it's also to stop the carbon footprint in general. The people could drastically change this by changing their gas stoves to electric stoves. Or, if someone wants to go to a store nearby they could walk there, if the weather permits, instead of driving there. This change won't just be implemented instantly, instead we will take the slow climb and make our way to the change letting it ease in. The use of tax dollars would be necessary if it is to get everyone transferred to electric. Also with the use of Santa Rosa Transit, wed have to talk to them about converting busses from gas to electric.



Work Cited

<https://www.nationalgeographic.com/environment/article/greenhouse-gases#:~:text=Greenhouse%20gases%20have%20far%20draining,change%20caused%20by%20greenhouse%20gases.>