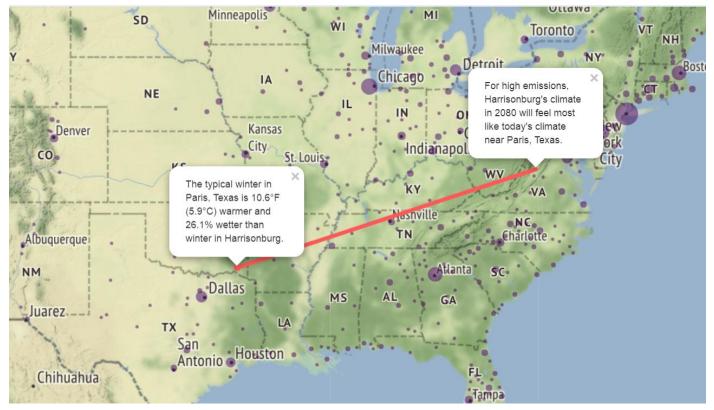
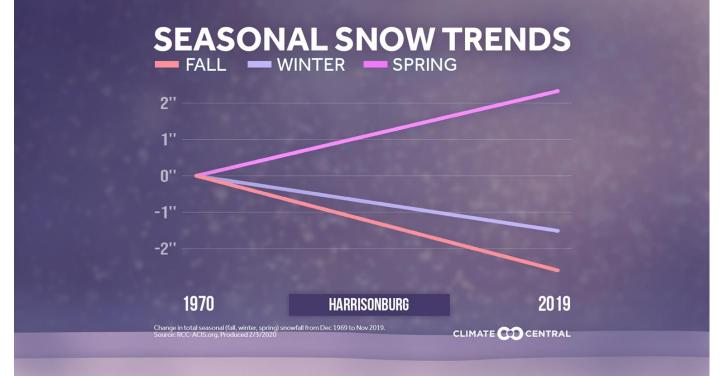


What is in store of the climate of Harrisonburg?



How unusual is this spring?

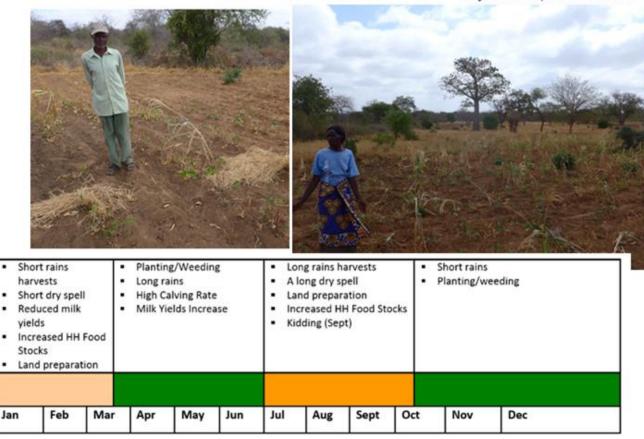
https://www.washingtonpost.com/weather/2020/02/13/spring-has-arrived-weeks-early-south-flowers-are-blooming-that-could-be-problem/



https://www.climatecentral.org/gallery/graphics/2020-local-snow-trends-by-season

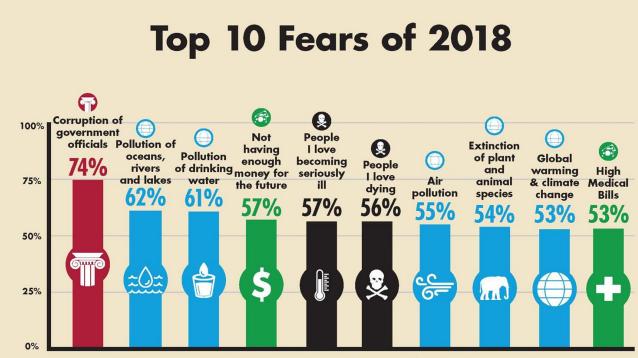
We should be talking about adaptation and resilience also

Mywa Mole, Kanina Moira



Seasonal Calendar

Coverage and concern are increasing



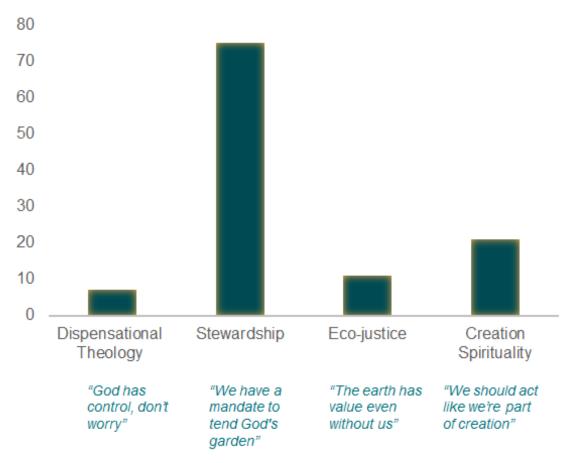
Above are the 10 fears for which the highest percentage of Americans reported being *afraid* or *very afraid*.





Illness and Death

Percent of Mennonites across Four Christian Environmental Views (n=7294)



Community Mennonite Church, Harrisonburg, VA

Creation is our neighbor. Contemplate that statement for a moment. How do we treat our neighbor? There are too many pollutants in our water. There is too much plastic in our oceans. There is too much carbon in our air. Creation is hurting, just as its human community hurts. The time has come for us to respond. Yet we will not struggle to save what we do not love. We cannot love what we do not know. We cannot know what we do not see or hear or touch. We have separated ourselves from our creation neighbors. This cannot last.



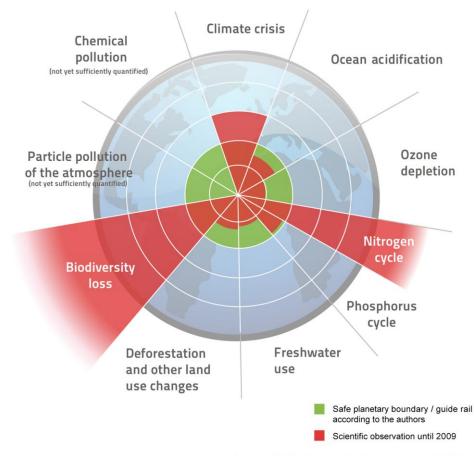
Article 21. Christian Stewardship

We believe that everything belongs to God, who calls us as the church to live as faithful stewards of all that God has entrusted to us.

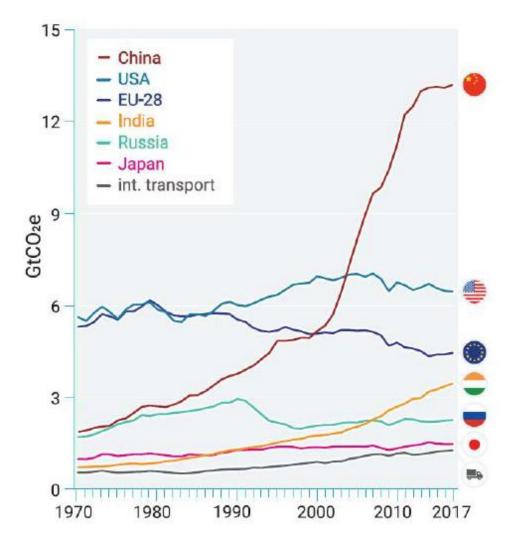
As stewards of God's earth, we are called to care for the earth and to bring rest and renewal to the land and everything that lives on it. 11 As stewards of money and possessions, we are to live simply, practice mutual aid within the church, uphold economic justice, and give generously and cheerfully. 12 As persons dependent on God's providence, we are not to be anxious about the necessities of life, but to seek first the kingdom of God. 13 We cannot be true servants of God and let our lives be ruled by desire for wealth. What are the other largest environmental problems?

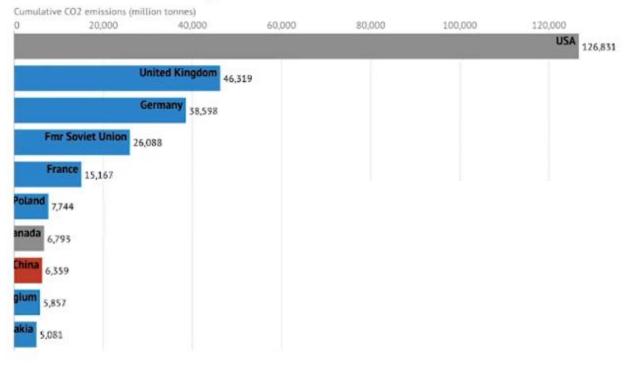
Planetary Boundaries

after Johan Rockström, Stockholm Resilience Centre et al. 2009



Who is the biggest carbon emitter?



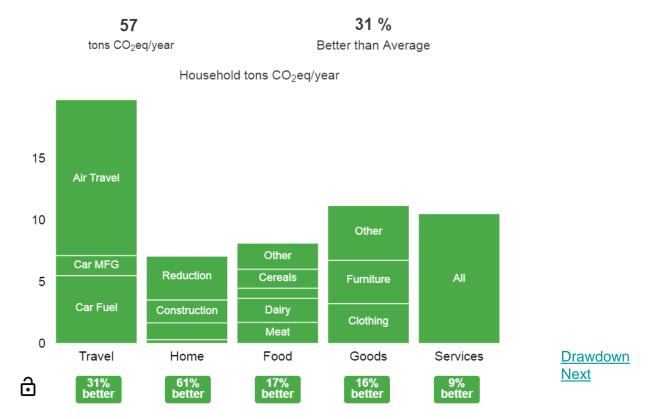


The countries with the largest cumulative CO2 emissions since 1750

What do we do? What should we do?

What makes a difference?

Where is your carbon footprint?



Q Compared to households with same size and income in United States.

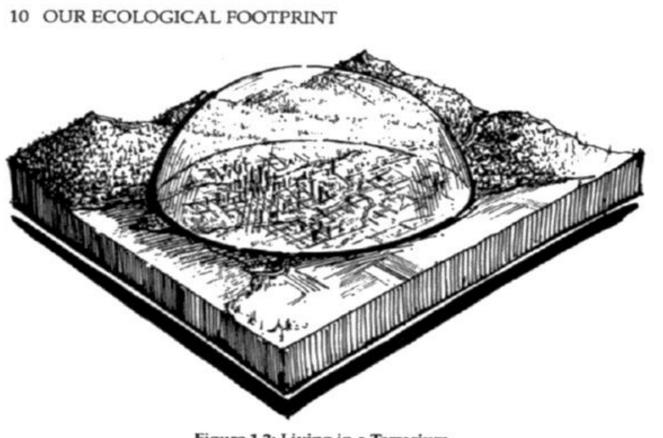
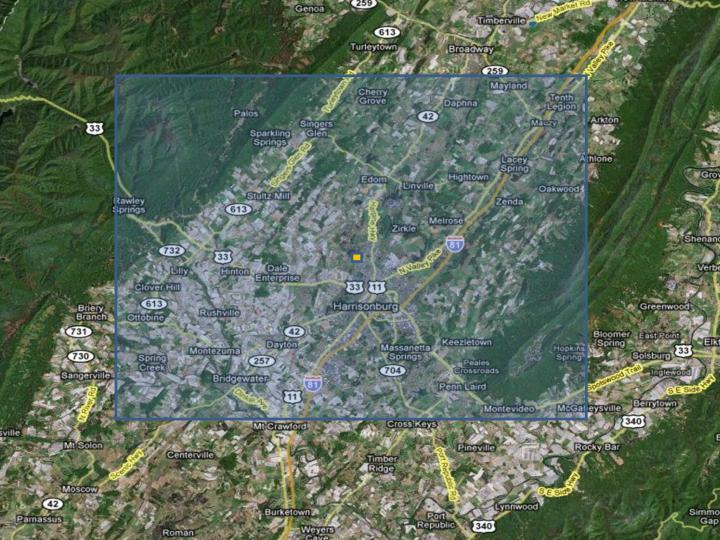
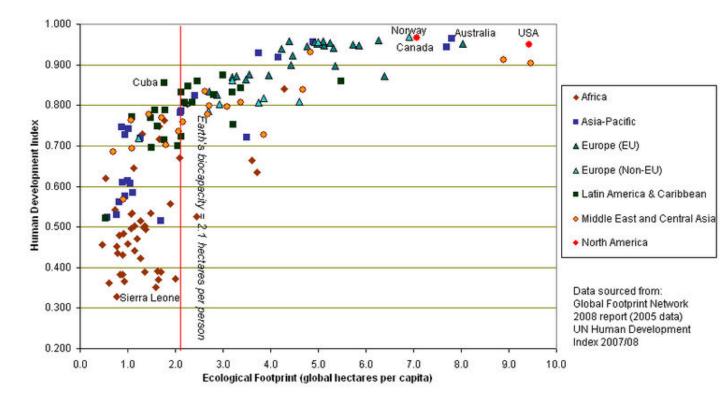


Figure 1.2: Living in a Terrarium.

How big would the glass hemisphere need to be so that the city under it could sustain itself exclusively on the ecosystems contained?

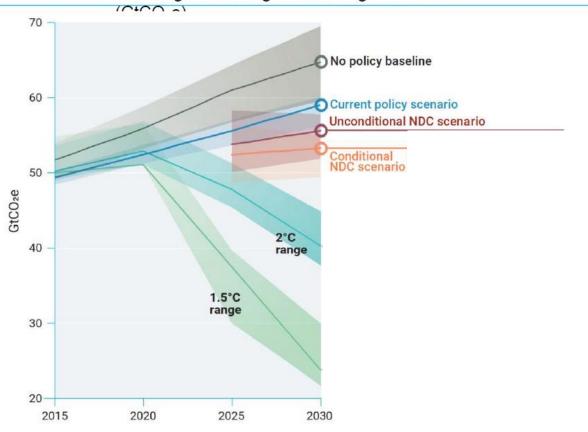


Human Welfare and Ecological Footprints compared

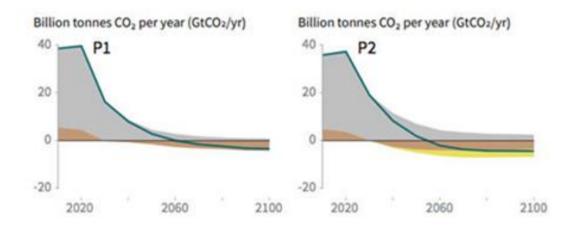


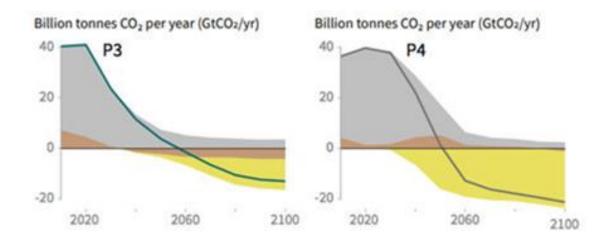
NDC contributions and the emissions gap

Annual global total greenhouse gas emissions









Drawdown - What does this tell us? What are the most impactful things society can do?



As we enter a new decade, please consider donating to Project Drawdown.

DONATE NOW

Rank	Solution			Sector	τοται	ΔΤΛ	NET COST (BI	SAVIN	ICS (BILL		
		a t		Materials			N/A		902.77)		
	Refrigerant Manageme										
	Wind Turbines (Onsho	re)		Electricity Generation			\$1,225.37	1.1	425.00		
3	Reduced Food Waste			Food	70	.53	N/A	N/A			
4	Plant-Rich Diet			Food	66	.11	N/A	N/A			
5	Tropical Forests			Land Use	61	.23	N/A	N/A			
6	Educating Girls			Women and Girls	5	9.6	N/A	N/A			
7	Family Planning			Women and Girls	5	9.6	N/A	N/A			
8	Solar Farms			Electricity Generation	3	6.9	(\$80.60)	\$5,	023.84		
9	Silvopasture			Food	31	.19	\$41.59	\$	699.37		
10	Rooftop Solar			Electricity Generation	2	4.6	\$453.14	\$3,	457.63		
11	Regenerative Agricultu	re		Food	23	.15	\$57.22	\$1,	928.10		
12	Temperate Forests			Land Use	22	.61	N/A	N/A			
13	Peatlands			Land Use	21	.57	N/A	N/A			
14	Tropical Staple Trees			Food	20	.19	\$120.07	\$	626.97		
15	Afforestation			Land Use	18	.06	\$29.44	\$	392.33		
16	Conservation Agriculture			Food	17	.35	\$37.53	\$2,	119.07		
17	Tree Intercropping		Food	1	7.2	\$146.99		\$22.10			
18	Geothermal		Electricity Generation	1	6.6	(\$155.48)	\$1.	024.34			
19	Managed Grazing	70	Recycl	ed Paper	Materials				0.9	\$573.48	N/A
20	Nuclear			Distribution			dings and Citi	es	0.87		\$
		72 Biochar			Food				N/A	N/A	
		73 Green Roofs			Buildings and Cities			0.77		\$	
		74 Trains			Transport			0.52		\$	
			75 Ridesharing			Transport				N/A	\$
		75 Inforcementing			riansport			0.32	1.975		

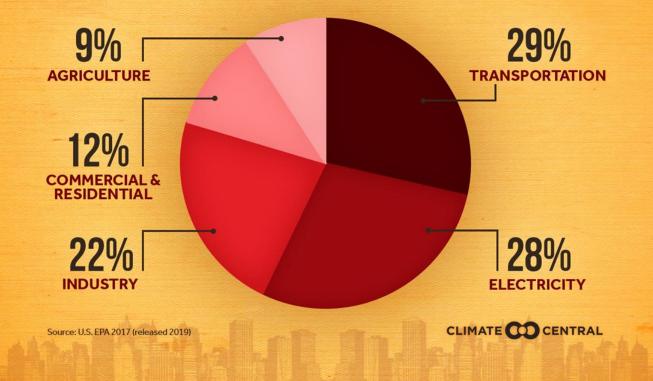
\$903.11

\$988.46 \$313.86

\$185.56

What is the biggest thing we do as society that contributes to emissions?

GREENHOUSE GAS SOURCES UNITED STATES EMISSIONS BY SECTOR



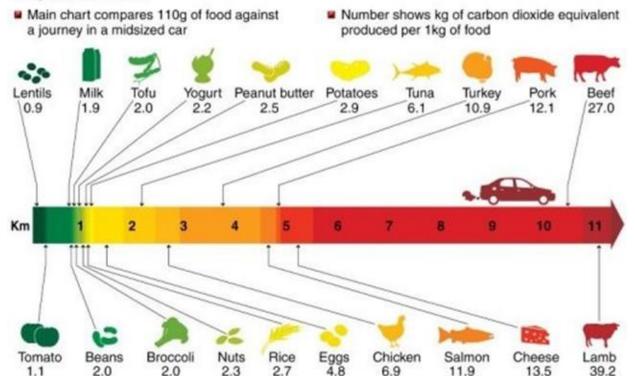
https://www.climatecentral.org/gallery/graphics/emissions-sources-2020

Food

Source: EnvironmentalWorkingGroup

Carbon footprint of what you eat

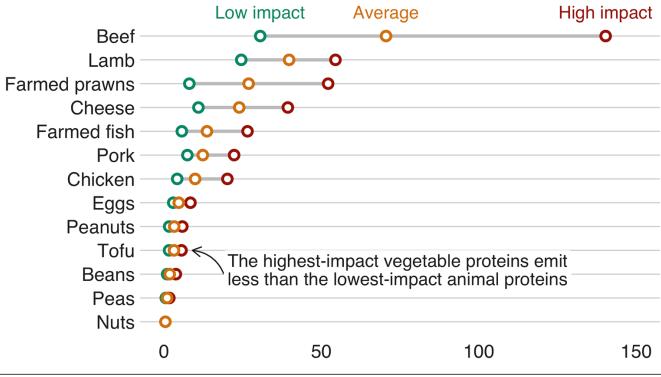
Calculations of greenhouse gas emissions from the production, processing and transportation of specific food items



AFP

Beef has the biggest climate impact

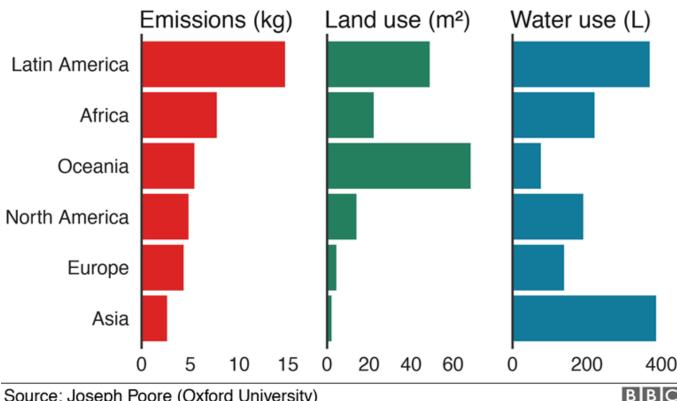
Greenhouse gas emissions per kilogram



BBC

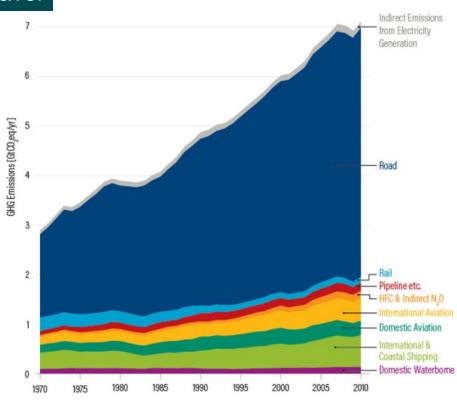
Source: Poore & Nemecek (2018), Science

The impact of beef is highest in Latin America Climate footprint of one serving of beef by production region



Source: Joseph Poore (Oxford University)

Travel

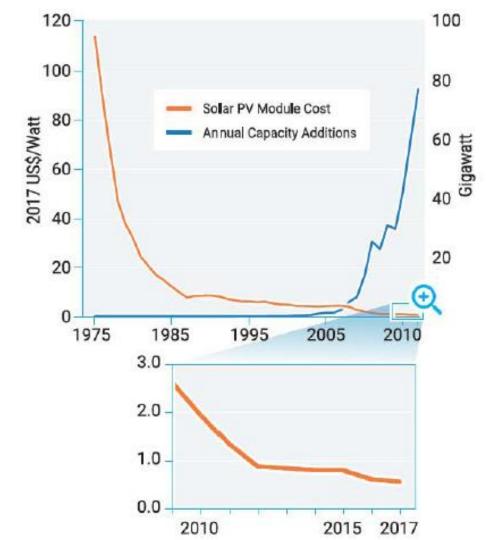


Source: IPCC

WORLD RESOURCES INSTITUTE

https://www.wri.org/blog/2019/10/everything-you-need-know-about-fastest-growing-source-global-emissions-transport





Gasoline

400

Enter amount of gasoline usage by gallons.

Natural Gas

0

Enter amount of natural gas usage by therm.

Liquid Propane

0

Enter amount of liquid propane used by gallons.

Location (state)

Virginia*

▼

This helps us determine your electricity tax based on the breakdown of energy usage in your state.***

Electricity

10000

Enter electricity usage by kwh.

Air Miles

35000

Enter miles travelled by air.

Your calculated carbon tax (in dollars)

\$1140

*These states use small amounts of petroleum for energy consumption, which we do not have a metric for yet. It is currently being charged as coal, but the difference should be minimal. Check back soon for an updated version of petroleum metrics!

**Measured according to average global electricity consumption statistics, taken from World Bank

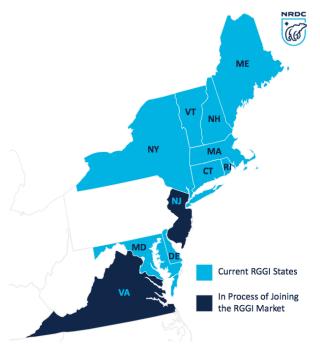


320 Watt x 100 panels = 32kW 32kW x 6-12 h/day of sun = 200-400 kWh / day

USAGE HISTORY									
MO	YIR	DOS	KWH	KWH/DAY	KW				
Nov	17	30	7500	250	40.60				
Oct	17	31	4400	142 •	30.28				
Sep	17	32	4260	133	25.40				
Aug	17	28	4440	159	23.60				
Jul	17	32	5500	172	27.60				
Jun	17	31	4000	129	30.40				
May	17	31	3840	124	32.80				
Apr	17	30	6080	203	47.20				
Mar	17	28	7980	285	28.00				
Feb	17	29	9240	319	47.60				
Jan	17	33	13760	417	74.00				
Dec	16	30	10740	358	47.60				
Nov	16	32	5360	168	40.00				

Carbon Pricing

Regional Greenhouse Gas Initiative



Carbon Tax

Buttigieg Supports a Carbon Tax, With Proceeds Going to Low- and Middle-Income People

By Susan Jones | February 19, 2020 | 7:49am EST



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(CNSNews.com) - South Bend Mayor Pete Buttigieg, now running for the Democrat presidential nomination, supports legislation imposing a tax on carbon pollution.



The way he explained it at Tuesday night's CNN town hall, such a tax would combine a bit of wealth redistribution with green energy goals:

Employees of SunEdison install photovoltaic solar panels on the roof of a Kohl's Department Store in Hillsborough, New Jersey. (Photo by Robert Nickelsberg/Getty Images)

"Would you support a specific legislative proposal for a carbon tax and rebate?" a voter asked Buttigieg.



"I will," the candidate said.



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Earth Day Virginia will leverage the power of Earth Day 2020 to drive a





Earth Day Sunday 2020: The Fierce Urgency of NOW



Each year, Creation Justice Ministries offers Christian education materials to equip faith communities to protect, restore, and more rightly share God's creation.

Our 2020 theme is "The Fierce Urgency of Now." To connect with others who are planning Earth Day Sunday activities, join the Earth Day Sunday 2020 Facebook Event.

DOWNLOAD ONLIN

Our Christian education resources are made possible by grassroots free-will contributions. From Martin Luther King Day to Earth Day 2020, we are seeking 50 new Marthly Gwing partners. Please proyerfully consider giving in the spirit of the fierce urgency of now. Thank you for your helpt

DONAT

"We are now faced with the fact that tomorrow is today. We are confronted with the fierce urgency of now. In this unfolding conundrum of life and history, there 'is' such a thing as being too late. This is no time for apathy or complement. This is a time for

