

My Story



Tom Yamaguchi

Berkeley, CA

My Story



Dr. Katharine Hayhoe



Confused about climate change and weather?

**Some people's minds
will never be changed.**



Climate and Weather

Climate Change is Loading the Dice



The Forest and the Trees



Climate Change in the Sierra Nevada Forest



Externality

Definition: a cost or benefit that affects a third party who did not choose to incur that cost or benefit.

Example: manufacturing activities that cause air pollution impose health and clean-up costs on the whole society

Example: a vaccination provides a benefit to other people in society because it prevents the spread infectious diseases

California's Cap and Trade

Environmental Defense Fund:

1. The government sets the cap across a given industry, or ideally the whole economy. It also decides the penalties for violations.
2. The total amount of the cap is split into allowances, each permitting a company to emit one ton of emissions.
3. The government distributes the allowances to the companies, either for free or through an auction.
4. The cap typically declines over time, providing a growing incentive for industry and businesses to reduce their emissions more efficiently, while keeping production costs down.
5. Companies that cut their pollution faster can sell allowances to companies that pollute more, or "bank" them for future use.
6. This market — the "trade" part of cap and trade — gives companies flexibility. It increases the pool of available capital to make reductions, encourages companies to cut pollution faster and rewards innovation.

FCNL's Carbon Pricing Comparisons



Carbon Pricing Legislation Comparisons

	H.R. 763, the Energy Innovation and Carbon Dividend Act of 2019	S. 1128, the American Opportunity Carbon Fee Act of 2019	H.R. 4058, the Stemming Warming and Augmenting Pay (SWAP) Act of 2019	S. 2284/HR 4051, the Climate Action Rebate Act of 2019	H.R. 3966, the Raise Wages, Cut Carbon Act of 2019	H.R. 4142, the America Wins Act of 2019	H.R. 4520, the MARKET CHOICE Act of 2019
Lead Sponsors	Rep. Ted Deutch (D, FL-22) and Rep. Francis Rooney (R, FL-19)	Sen. Sheldon Whitehouse (D-RI)	Rep. Francis Rooney (R, FL-19) and Rep. Dan Lipinski (D-IL-03)	Sen. Chris Coons (D, DE), Sen. Diane Feinstein (D, CA), and Rep. Jimmy Panetta (D, CA-20)	Rep. Dan Lipinski (D, IL-03) and Rep. Francis Rooney (R, FL-19)	Rep. John Larson (D-CT-1)	Rep. Brian Fitzpatrick (R, PA-01), Rep. Salud Carbajal (D, CA-24), Rep. Francis Rooney (R, FL-19), and Rep. Scott Peters (D, CA-52)
Bipartisan?	Bipartisan	Democrat-only	Bipartisan	Democrat-only	Bipartisan	Democrat-only	Bipartisan
Price	\$15 /metric ton of CO2 starting in 2020, increasing by \$10 each year.	\$52/metric ton of CO2 starting in 2020, increasing by 6% plus inflation each year.	\$30/ ton of CO2 starting in 2021, increasing by 5% plus inflation each year.	\$15/metric ton of CO2, starting in 2020, increasing by \$15 each year.	\$40/ton of CO2 starting in 2020, increasing by 2.5% plus inflation each year.	\$52/ton of CO2 starting in 2021, increasing by 6% plus inflation each year.	\$35/ton of CO2 starting in 2021, increasing by 5% plus inflation each year.
Course Correction <i>If the price is not sufficiently driving down emissions, then it should increase.</i>	If the previous year's emissions are not reached annual price increase will grow from \$10 to \$15/year.	None	The price will automatically increase an additional \$3/ton every two years if emissions reductions are behind goals.	If the emissions targets are not met in a given year, the fee is raised from \$15 to \$30 each year.	None	None	Every two years, if emissions reduction goals are not met, the price will increase by an additional \$4.
Emissions Reductions Goals <i>The most important outcome is the reduction of GHG emissions.</i>	Will decrease emissions by 40% below 2016 levels in 12 years. Ultimately, the bill seeks to reduce emissions by 90% by 2050.	Will reduce emissions by 51% by 2029, below 2005 levels.	Will aim to reduce energy-related carbon pollution by approximately 41% under 2005 levels by 2030.	Designed to reduce U.S. carbon emissions 55% by 2030 and 100% by 2050 (compared to 2017 emissions).	Will slowly increase the price on carbon until the U.S. achieves an emissions level equal to 20% of our 2005 emissions levels.	Designed to reduce emissions by 52% in ten years, designed to lay groundwork for zero emissions by mid-century.	Projected to reduce greenhouse gas emissions from fossil fuels by 36% below 2005 levels by 2025.

Measure HH

Berkeley Climate Equity Action Fund

- Raise Utility tax on electricity and natural gas from 7.5% to 10%, at an average cost per household of \$4.33 per month
- exempt low-income households on CARE and FERA
- Raise \$2.4 million per year for the Climate Equity Action Fund*
- Help Berkeley residents and businesses take action, such as by providing rebates for electric bikes, cars, and scooters; insulating homes; and subsidizing transit passes

* 2009- voters approved Climate Action Plan. 2018- City Council declared a Climate Emergency and set a goal of becoming Fossil Fuel Free by 2030.

Albany Measure DD - Utility Users' Tax

- Increase Albany's utility users' tax from 7% to 9.5% for gas and electric service and applying the tax to water service at 7.5%
- Support general services including disaster and emergency preparedness, reducing greenhouse gas emissions, emergency response and environmental sustainability
- Provide an additional \$675,000 annually, exempting self-generated energy, exempting low-income households, requiring independent audits, with all funds remaining local

MINUTE APPROVED BY COLLEGE PARK QUARTERLY MEETING

January 18, 2020

College Park Quarterly Meeting approved a call for reflection and engagement on environmental crises, inviting our twenty Monthly Meetings to reflect and engage upon the following, and to report back at Spring Quarter.**

(1) Earth Restored Testimonies:

- a. Read together and reflect upon queries such as those offered below.
- b. Read together, reflect upon, and comment on the draft minute offered below.

(1) Earthcare Witness: Drawing on our long history of acting on spiritual concerns, Friends will explore how best to engage the wider society in transforming the collective conscience, and taking positive action toward an Earth restored. This may include supporting individual action, corporate witness, and/or supporting our Quaker organizations and others in our wider community.

(1) Ecological Integrity: Support each other and find practical ways that our collective and individual lives testify to a belief that there is that of God in all Creation. These ways may include reducing our carbon footprint, changing our diet, or modifying our consumption patterns.

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QUERIES:

1. How has the environmental crisis created an opportunity for your own spiritual growth and evolution of consciousness?
2. In “A Plea for the Poor,” John Woolman combines a concern for the physical life of domestic animals, the depletion of soil, the souls of rich people, and the physical difficulty and poverty of the working class. Does his concern still speak to us? What unique Quaker witness are we called towards by human suffering resulting from the destruction of the biosphere?
3. How do you personally maintain hope and gratitude in this difficult time?
4. What can we as Quakers do to avert, adapt, or transform situations arising from threats to our planet’s living systems? How do we grow ourselves and each other spiritually and in practical service to others?

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DRAFT MINUTE:

Environmental degradation, including human-made climate change, presents an existential threat to life on Earth as we know it. In addition to damaging the biosphere, it negatively impacts racial justice, right sharing of world resources, gender equality, migration, genocide, and conflict. Harm to Earth is caused by greed and the delusion of separateness. Friends are complicit in this harm. Spirit is calling us to seek an Earth restored through celebrating our profound interconnectedness to all things, and we resolve to act together to effect the necessary changes in our individual lives, in our Meetings, and in the systems and practices of our wider society.

*****Meetings are invited to send a written summary of the state of their reflections by May 4, 2020, to: clerk@collegeparkquarterlymeeting.org***

Earthcare Testimony of Strawberry Creek Friends' Meeting

We seek to live our lives in reverence for all life on Earth, encompassing right-sharing of the world's resources amongst all people and all species. Friends are called to enter into right relationship with Earth and the community of life it supports.

Approved April 2010

Dr. Katharine Hayhoe



Atmospheric scientist and professor [@KHayhoe](#) has news for us—
The bad news? Our climate is changing faster today than at any other point in the history.

The good news? By fixing [#climatechange](#), we can solve so many other issues humans face, from poverty to inequality.

Questions for consideration

- Which is better, a carbon tax or “cap and trade?”
- What is the best use for the revenue?
 - Fund renewable energy, energy conservation, and/or infrastructure?
 - Refund to consumer (revenue neutral)?
- Start with a higher tax rate instead starting low with a gradual annual increase?