

NATURAL CLIMATE SOLUTIONS

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Why Carbon Pricing Isn't Enough to Stop Climate Change

Paul Belanger

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March 26, 2018

LET'S START WITH LIMITATIONS

- PROPOSED Amount of Pricing Is **NOT** Enough
 - Would \$0.33/gallon gas going to change your habits?
 - Maybe \$2.00 to \$4.00 / gallon will? BUT
 -and stop the economy
- NEVERTHELESS:
 - **Prudent** to Start Acting and **Impose Pricing** to Discourage Fossil Fuel Use and REDUCE Emissions
 - AND Simultaneously **Ramp Up More Sustainable and Ethical** Practices in our Lives!

Proposed **TAX INCREASE** of 25 Cents/Gallon of Gas Earmarked to Shore-up Highway Infrastructure HAS **RESISTANCE!**

12A» BUSINESS WEDNESDAY, FEBRUARY 21, 2018 • DENVERPOST.COM • THE DENVER POST



GAS TAX

Koch groups: Rise would hit Trump states hardest

By John
Bloombe

A fede
to help
U.S. ro
would fa

won by Donald Trump in 2016, according to a report released Tuesday by two groups tied to the billionaire Koch brothers that oppose the increase.

The impact of raising the gas tax by 25 cents per gallon, as the U.S. Chamber of Commerce has suggested

won nine.

“Every American stands

Looking for tax increase for roads – already an uphill battle!

the two organizations, part of the political network led by Charles and David Koch.

Raising the gas tax is like-

needs.

Opposition to the tax in-

open to raising the levy and last week unveiled a long-awaited plan to generate at least \$1.5 trillion in new in-

vestment.

vestment.

Trump surprised a bipartisan group of House and committee leaders Feb. 14 White meeting by offering

to support a 25-cent increase in the tax on gas and diesel fuel, according to Sen. Tom Carper of Dela-

sus Bureau, American Petroleum Institute and other sources to make their calculations. Their rankings for percent change were based on the state’s current total gas levy, including state and federal taxes, compared with the total under the proposed hike.

Alaska, 81 percent; Oklahoma, 71 percent; Missouri, 70 percent; Mississippi, New Mexico and Arizona, 67 percent; Texas and Louisiana, 65 percent; and South Carolina and Alabama, 64 percent.

Those with the lowest state taxes would see the

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ups:

Carbon pricing is a necessary part of a larger package of policies that can reduce greenhouse gas emissions.

- **Examples of complementary policies include:**

- **Performance standards:** Many countries set fuel **efficiency** standards for vehicles and energy efficiency standards for buildings, including for lighting, windows, ventilation and heating and cooling systems.

MISSING: CARBON NEGATIVITY SUBSIDIES!

- though Don Sorenson working on that with CO legislature!

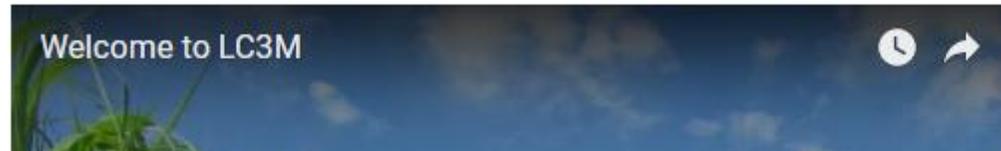
- **Trade policies: Cutting tariffs** on green goods such as solar panels, wind turbines, and energy-efficient light bulbs can help ensure access to the best technologies available globally.
- **Law enforcement:** In Brazil, **enforcing** and clarifying existing **laws** has proved to be an effective, low-cost strategy to reduce **deforestation**.

INSTEAD

- INSTEAD OF FEE AND DIVIDEND
- MAKE IT FEE, WITH DIVIDEND AND FUNDS FOR CARBON NEGATIVITY

Or just simply tax credits for carbon negativity!

NEWS; 2/20/2018: Posted on February 20, 2018 in [CCL News](#) **ADVOCATING/CARBON NEGATIVITY**



MISSING: NO FUNDING
ALSO MISSING: BETTER ALTERNATIVES: BIOCHAR



Study: Crushed rock added to soil can pull CO2 out of atmosphere to mitigate climate change

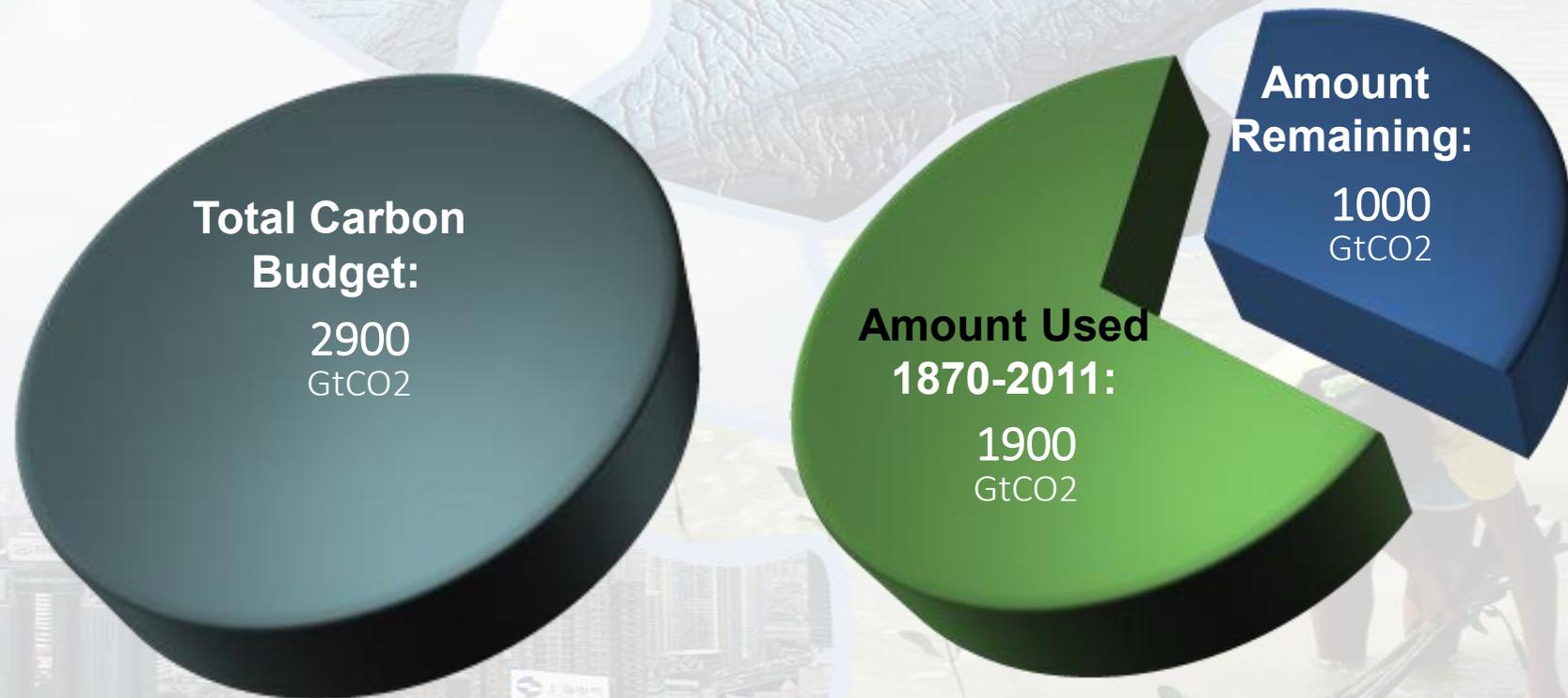
By Steve Valk

<https://citizensclimatelobby.org/study-crushed-rock-added-soil-can-pull-co2-atmosphere-mitigate-climate-change/>

If you are Wondering WHY

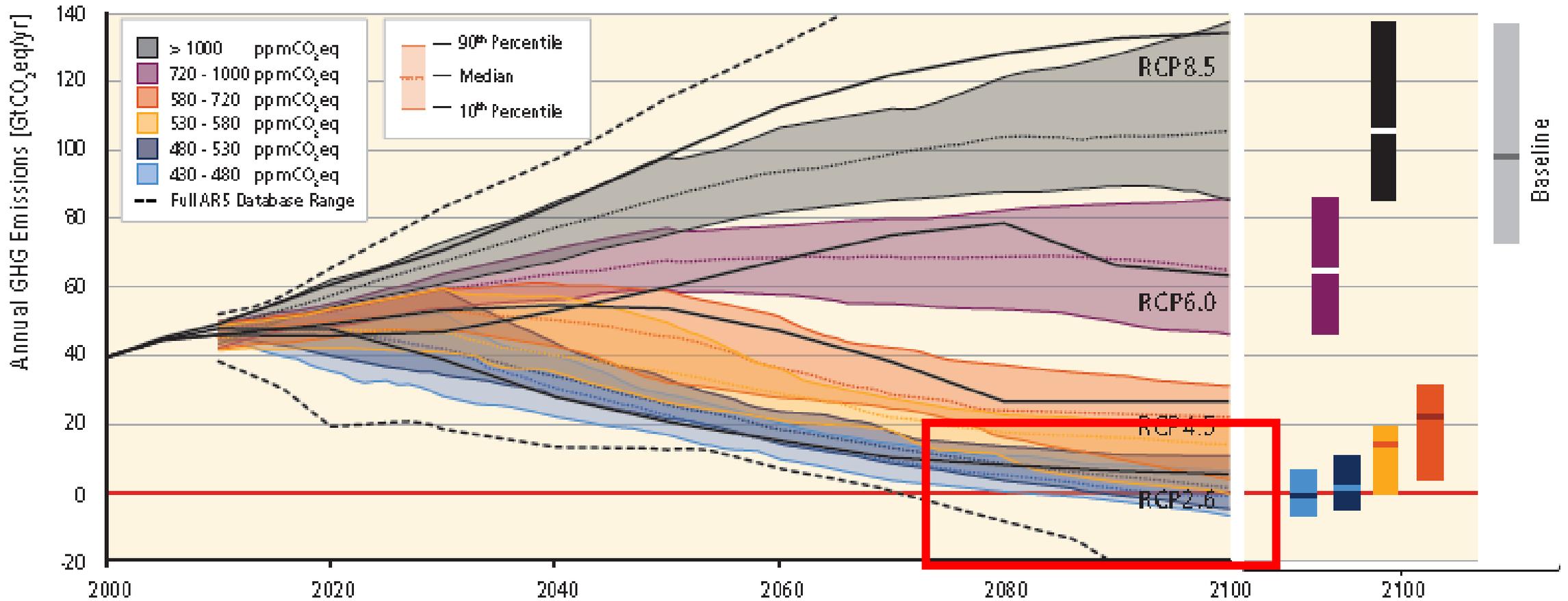
WHY: The window for action is rapidly closing

65% of our carbon budget compatible with a 2°C goal already used



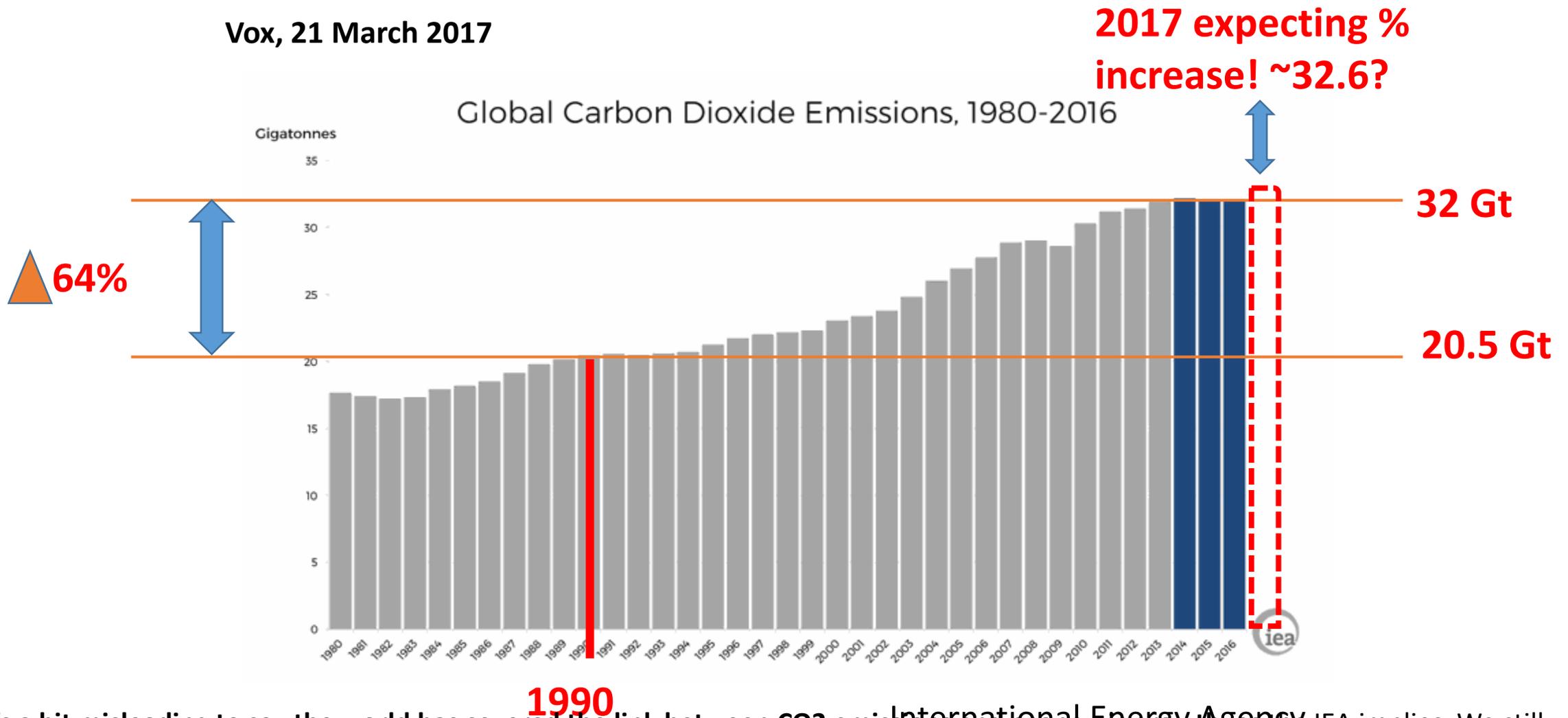
AR5 WGI SPM

GHG Emission Pathways 2000-2100: All AR5 Scenarios



Global Carbon Emissions

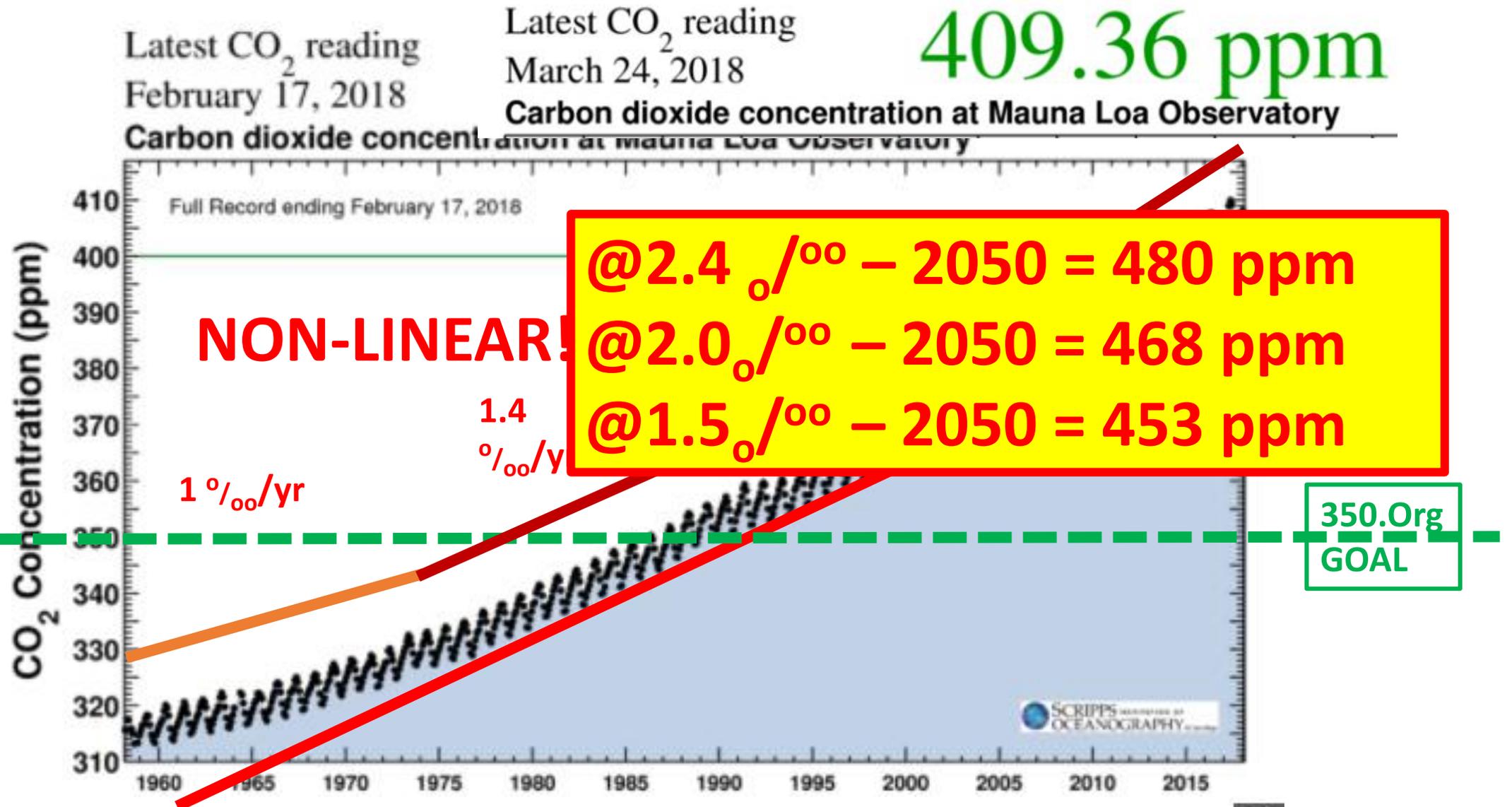
Vox, 21 March 2017



2) It's a bit misleading to say the world has severed the link between CO2 emissions and economic growth as the IEA implies. We still rely overwhelmingly on fossil fuels to power modern civilization, and if economic growth had been faster last year, emissions would've risen. As economist Robert Stavins says of "decoupling" claims, you have to consider the counterfactual. So CO2 could still rise in future years with further growth, particular as low-income countries get richer and build more cars and power plants.

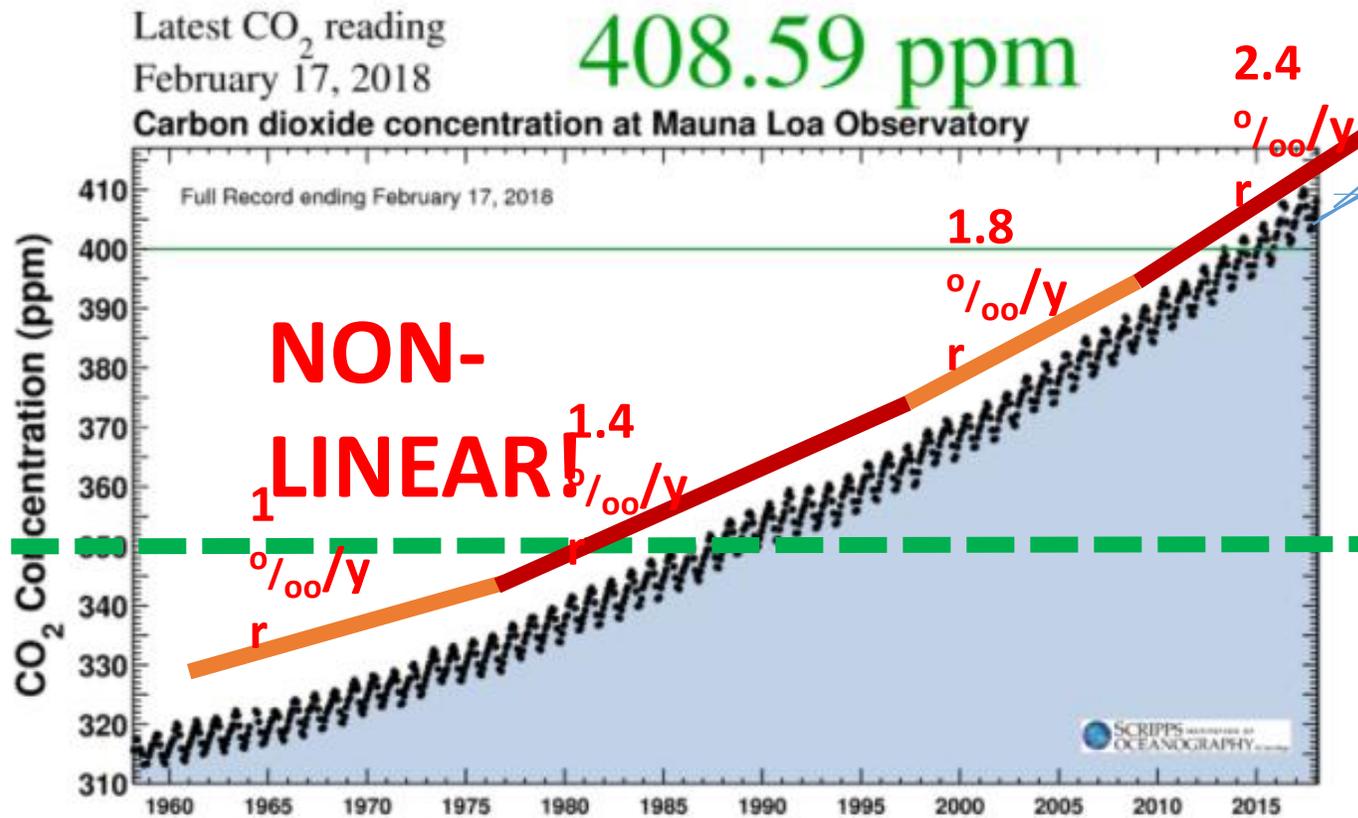
...go to article <https://www.vox.com/energy-and-environment/2017/3/21/14998536/slowdown-co2-emissions>

The Rate of CO₂ Rise Keeps Increasing!



The Rate of CO₂ Rise Keeps Increasing!

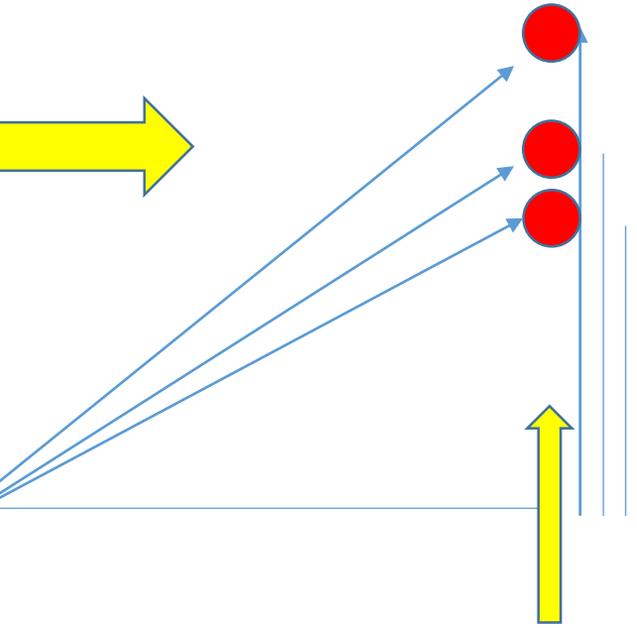
@2.4 °/°° – 2050 = 480 ppm
@2.0 °/°° – 2050 = 468 ppm
@1.5 °/°° – 2050 = 453 ppm



350.Org
GOAL

350.Org
GOAL

2050



CAN WE TRUST OUR POLITICIANS OR CORPORATE STATEMENTS FOR THAT MATTER??

IS IT MERELY LIP SERVICE:
MOTHER JONES: “Concerns About Climate Caucus!”

“I started taking a very hard look, realizing not only were they not producing anything in the way of a bill beyond press releases. Their voting patterns were really no different from voting patterns of Republicans outside the caucus.”

ACTION ITEMS: WHAT WE NEED TO DO

1. ~~DE~~-Carbonize Energy:

YES – FEE AND DIVIDEND HELPS HERE

- Transportation
- Manufacturing

**2. Carbon Dioxide Removal
= Carbon Negativity**

CLIMATE MITIGATION OPTIONS: The need for CO₂ Removal

GEOENGINEERING:

- ~~Solar Radiation Management (SRM) – NOT and Advocate (MANY ETHICAL ISSUES)~~
- Carbon Dioxide Removal (CDR) = Carbon Negativity (NOT to say Soil Restoration has no benefit – but it's Carbon Neutral in the long term)
 - ~~Clean Coal – Not an Advocate – Cost and Ethics~~
 - ~~BECCS: SSF without other benefits – COSTS~~
 - BIOCHAR in combination : Low Cost, Thermal Byproducts, Soil Enhancement and Sequestration

WHAT'S IN STORE IF WE DON'T HAVE CARBON NEGATIVITY ?

- Significant and rapid CO₂ increases and associated climate change leading to:
 - Economic losses
 - Social upheaval and
 - Migration of peoples across the world.
 - Ocean Acidification
 - Etc.....
- **We must lead by example** – WHY?
- Even though China now leads in Emissions U.S. DOES Historically
- **We need to get back into The Paris Accord!**

WHY WAIT FOR A FEE TO BE IMPOSED?

WHAT YOU CAN ETHICALLY DO:

IMPOSE A FEE ON YOUR CARBON FOOTPRINT

- \$0.33/GALLON Gasoline \approx \$5/fillup
- \$0.02/ kWh \approx avg 600 kWh = \$12/month
- \$7.00/trip Denver-Chicago-NY .71 metric tons
- \$28.00/trip Denver-UK-Rome 2.73 metric tonnes
- \$100/YEAR CH₄ HEATING
- A/C

BUY BIOCHAR WITH IT – CONTACT A LOCAL FARMER

<https://calculator.carbonfootprint.com/calculator.aspx?tab=3>

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- \$100/YEAR CH₄ HEATING
- A/C \$??

Scenario #1; 15,000, 25 mpg – 40 fillups	Scenario #2 – GREENER; ICE car 20%
\$200.00	\$30.00
\$72.00	\$0.00
\$21.00	\$21.00
\$25.00	\$25.00
\$100.00	\$100
TOTAL=\$418.00	TOTAL =\$176.00

BUY BIOCHAR WITH ½\$\$ of IT? – CONTACT A LOCAL FARMER