Response to A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate; Technical Response to Page ix DOE-HQ-2025-0207
1 September 2025

Dear President Trump and Members of the Administration,

Thank you for supporting the review of greenhouse gas emissions and their impacts on the economy and health of the American people. The report highlights vital issues about air quality and the environment, the link to our economy and the ability of the United States to lead in the decades ahead.

This letter addresses two points in the report for your further consideration; economic and environmental impact of historical carbon dioxide trapped in the atmosphere, and the economic opportunity to lead the world in the carbon economy which the United States is now ceding to other nations.

Economic and Environmental Impact of Historical CO2 Trapped in the Atmosphere
The GHG report correctly questions the projections of CO2 emissions in an increasingly electrified economy based upon renewable energy sources. We currently emit at approximately 40 billion tons per annum globally with forecasts for the end of the century up to 75 billion tons p.a., but even at the lower end of the range, we are contributing to what is a lingering historical accumulation of 1.5 trillion tons of CO2 which is trapping heat in our atmosphere and oceans. The effects are many on flora, fauna, and specifically for humanity they are causational to the melting of the ice caps and permafrost, which affect weather patterns leading to drought and flooding. The economic effects are seen in insurance prices rising to unaffordable levels and increasingly cause insurance to be entirely withdrawn from the market preventing industrial, commercial, and residential development.

Economic Opportunity to Lead the World in the Carbon Economy
There is also a critical economic opportunity which the United States is squandering, leadership in the global carbon economy. The two areas where America is losing out to China and the rest of the world are in: industrial manufacturing and fuels, and in the financial markets for energy transition assets.

Carbon is a key building block of the industrial future. In the 21st century we are seeing increased use of carbon as a raw material in polymers, carbon fibers, pharmaceuticals, fuels, and advanced carbon materials such as graphene and carbon nanotubes. Currently, China leads on using carbon dioxide in industrial production, last year receiving nearly five times more “green” patents than Americans.

The carbon economy is part of the wider energy transition to renewables which brings economic advantage to nations in the form of unlimited, low-cost clean energy which accelerates growth in key areas like artificial intelligence and manufacturing. The global financial markets for energy transition assets, such as renewable energy certificates, carbon credits, and ecology credits, enable the vast majority of the funding for the energy transition beyond governmental incentives. This is the carbon economy, and it is forecasted to be a global multi-trillion-dollar industry which the rest of the world is gearing-up to lead in the absence of the United States.

Prior to the current administration’s withdrawal of investment in the renewable energy sector, the US was on track to lag China, Brazil, and Europe by circa 10%-80% in renewable capacity by 2040. This gap will now widen, making the US less economically competitive in the decades ahead. Among the industrial policies necessary to support American leadership in this area, we need to refocus on becoming the leader in carbon management for both health and economic leadership.

Many American voters understand the connection between the energy transition, economic growth, and planetary health. They want America to be the global leader in the energy transition and the carbon economy. The Administration's demonstrated leadership to force international players to align to United States' economic priorities can be again applied to the carbon economy, taking leadership in the national interest.

On behalf of American's committed to a future of energy security, economic growth and planetary health, please consider an American-scale step in shaping our future. Investing in the carbon economy, and specifically in renewables and carbon removal, would allow the United States to showcase its technical capabilities, economic strength, and global leadership in support of the carbon economy. In advancing our economic and scientific leadership, we will secure American health, prosperity, and dominance in the industries of the future.

History will honor the president and administration that achieves global leadership in the carbon economy, perhaps America's greatest future economic opportunity.

Sincerely,

Michael R. Fox
EarthXCG, Inc., CEO