

CONGRESS CAN END CLIMATE CHANGE IN TEN YEARS WHILE STRENGTHENING A DEMOCRATIC MAJORITY

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TEN INTERCONNECTED POINTS AND AN ASK climaterepair@protonmail.com

(1) Since mid-1800's anthropogenic greenhouse gasses have been *accumulating in the atmosphere* and forcing increased global warming induced environmental disruption. 1, 2, 3, 4

(2) These accumulated "legacy" CO₂ emissions have now reached 750 gigatons (GtC) or 420 parts per million (ppm). *Reduction of further emissions will not solve the existing problem of global warming* caused by this current backlog of emissions which will take hundreds to thousands of years to process naturally. 5, 6, 7, 8

(3) A wide range of *feedback loops in planetary ecology* (e.g., melting permafrost releasing methane causing further melting releasing more methane) are combining with legacy and ongoing emissions resulting in exponential increases in climate effects as we saw this summer in NE flooding, SW heat dome, and wildfire devastation in Hawaii. Overlooking this synergy has led to errors in projecting climate disruption. 9, 10

(4) Paleo-geologic records warn that breaching the 450ppm atmospheric carbon and, or 10GtC oceanic carbon threshold (both approaching in the mid-2030's) has, in previous epochs, without exception *caused a shift to a "new normal" inconsistent with whatever current planetary life exists*. 11, 12, 13

(5) **Therefore**, the only solution to global warming, at this late date, is to rapidly deploy Negative Emissions Technology (NET) specifically Direct Air/Atmospheric Carbon Removal (DACR) on a very large scale. DACR is a new, jobs-producing, industry *in which atmospheric carbon is removed directly from the air and made into useful products or safely buried*. DACR is running in 18 small demonstration facilities in Canada, Europe and the United States. Occidental Petroleum recently spent \$1.1 billion for Canadian supplier Carbon Engineering to help it develop a string of carbon-capture sites. (DACR is not the "carbon capture" filtration at the source. 14

(6) *The U.S. has developed the DARC Carbon Negative Shot (CNS) program* under the U.S. Department of Energy providing grants to encourage free-market DACR exploration. But there is a significant problem. 15

(7) Imagine in 1940 if Allied governments had given money to various companies and told them, "See if you can find a way to solve this NAZI problem." Seeding of the private sector on a business and profits as usual timescale will be greatly outpaced by the cascading global-warming-driven feedback loops now occurring. *Climate change is a much larger problem than was WWII and will require an effort at least as well-funded and organized*.

(8) *We just received our "Climate Pearl Harbor" wake up call in Maui. The enemy is at our doorstep. We must remove hundreds of gigatons of CO₂ by the mid-2030's. Congress must fully-fund Carbon Negative Shot and soon!* Already \$5 trillion have been spent in the chaos of patchwork climate cleanup efforts - half what is needed to fully fund *Carbon Negative Shot*. Deloitte Economics Institute estimates future climate change will cost the global economy \$178 trillion in only the next 50 years. It will cost a fraction of that to remove the needed 950 gigatons of CO₂ over the next 15 years (at a current cost of \$150 per ton). 16

(9) *Carbon Negative Shot as it stands now will fail to be of significant help, but it can succeed if it is immediately re-modeled (perhaps employing mechanisms such as the Defense Production Act) and vigorously funded as a government initiative* using the best existing technology. Research will continue to improve methodology and reduce cost, but *Carbon Negative Shot* must begin *now* to get us back down below a safe threshold of 350 ppm.

(10) *We can solve Climate Change and draw the country together (like WWII did) reducing the current amalgam of existential fear, authoritarianism, isolation, collective narcissism, and social dominance-seeking. These psychosocial factors are driving voters to the extreme right. As a doctor with a sworn oath to protect life, I am acutely aware that climate change is the issue that rises above all others impacting your constituents.*

➤ **THE ASK:** *On your constituent's behalf I am pleading with you to use whatever means are at your disposal including creating a Bill to push for the full funding and rapid deployment of the DOEs CARBON NEGATIVE SHOT Direct Air/Atmospheric Carbon Removal program. I would be happy to meet with you or your staff if I can be of any assistance, or to discuss this matter further. Thank you.*