

**ATTENTION: MR. JOHN KERRY**  
**US SPECIAL PRESIDENTIAL ENVOY ON CLIMATE**

**SUBJECT: DEFENDING CARBON DIOXIDE**  
**July 21, 2021, Updated August 1, 2021**

Dear Mr. Kerry,

Please accept, from a retired Canadian scientist (age 81), this sincere plea for truth to prevail in the climate-change controversy.

The following facts will allow anyone to judge for themselves whether or not carbon dioxide (aka "CO2", "carbon emission") is guilty of causing the alleged climate crisis.

**THE FACTS:**

- CO2 is a colourless, odourless trace gas that is responsible for greening the planet as a vital component of the carbon cycle.
- CO2 is as important as water, oxygen, and sunlight in sustaining life on the planet.
- The atmospheric threshold for terrestrial vegetation is about 150 parts-per-million ("ppm") CO2 while a CO2-free planet is a dead planet.
- The primary store of CO2 is the oceans with 2% allowed to circulate through the atmosphere, thereby enabling terrestrial plant and animal life.
- The CO2 store has been severely depleted by natural processes to form sedimentary rocks such as limestone.
- As a result of this ongoing sequestration of CO2, the CO2 content of the atmosphere has been steadily decreasing from 2,000 parts-per-million ("ppm") during the dinosaur era to the current low level of 416 ppm.
- When 100 tonnes of CO2 are emitted to the atmosphere, the increased partial pressure of CO2 suppresses the outflow from, and increases the absorption rate by, the oceans.
- This redistribution process achieves equilibrium conditions within a few months with and without the participation of the man-made CO2 molecules.
- The result is an increase of atmospheric CO2 of only 2 tonnes, not 100 tonnes.
- Accordingly, fossil-fuel emissions will increase the CO2 level by only 100 ppm over roughly 1,000 years at current consumption rates.

**THEREFORE:**

- The UN's prediction of a 3-degree Celsius increase for a doubling of CO2 translates into a 0.00075 C increase per year.
- The UN's exaggerated prediction does not support the threat of a CO2-induced climate crisis.

Clearly, we must cherish our carbon emissions and allow them to replenish the atmosphere! Otherwise, a real CO<sub>2</sub>-deficit crisis may replace the alleged climate crisis sooner rather than later.

It is obvious that China doesn't subscribe to the destructive, anti-CO<sub>2</sub>, climate-crisis myth. China is increasing the size of its massive coal-fired power system at a rate of one (1) coal-fired power plant per week. India and other countries are following China's lead.

I'm sure everyone will agree that these countries are not suicidal. They must be fully aware of the foregoing exoneration of CO<sub>2</sub>.

Respectfully submitted,

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## ADDENDUM

QUESTION: Can we generate too much carbon dioxide ("CO<sub>2</sub>")?

ANSWER: The answer is an emphatic NO! In fact, it is impossible to generate enough CO<sub>2</sub> for optimal plant growth, such as the growth observed in the artificially enriched atmospheres of greenhouses (e.g. 1,000 ppm CO<sub>2</sub>).

### DETAILS:

In reality, it is impossible to double the CO<sub>2</sub> content of the atmosphere without doubling the CO<sub>2</sub> content of the oceans. Consequently, the quantity of carbon required for a doubling of CO<sub>2</sub> is four (4) times the quantity of the planet's known carbon (fossil fuel) reserves (10,000 GtC). The ratio of CO<sub>2</sub> in oceans to that in the atmosphere = 50/1.

Furthermore, the claim that man-made CO<sub>2</sub> equals much of the increase in CO<sub>2</sub> since the 19th century (e.g. 100 ppm) must be challenged. To accomplish such a feat, we would have had to produce roughly 13,000 GtC of CO<sub>2</sub> if the starting point was 300 ppm. This production of 13,000 GtC of CO<sub>2</sub> requires carbon reserves larger than our remaining reserves and represents a consumption rate at least thirteen (13) times current consumption rates over a 100-year period.

An optimistic estimate of the Earth's carbon reserves (10,000 GtC) will increase the

ocean store of CO<sub>2</sub> from about 40,000 GtC to 50,000 GtC and add about 100 ppm to the atmosphere over one thousand (1,000) years at current consumption rates. If the oceans continue to warm, the 100 ppm will continue to be augmented by natural outgassing attributable to a natural redistribution of CO<sub>2</sub> between the two phases, the atmosphere and oceans. This natural redistribution appears to relate to the Medieval Warm Period (800-year time lag from ice core data).

Therefore, it can be concluded that man-made CO<sub>2</sub> has contributed an amount closer to 2 ppm rather than 100 ppm and will contribute about 0.1 ppm per year over the next thousand years at current consumption rates. The discrepancy related to man-made CO<sub>2</sub>'s contribution to the total CO<sub>2</sub> content of the atmosphere can be attributed, in large part, to the confusion between "residence time" and the much shorter time to restore equilibrium conditions in accordance with Henry's Law.

Dr. Thorpe Watson

### **All About Energy Website:**

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[Russ Babcock's essay](#)