

Disagreement with The Idea of “Decarbonizing Economy” as Means of “Stopping Climate Change” and Some Proposals to Perform This Task Under the Viewpoint “Take the Available”

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Opinion

With disbelief I have noticed that C2ES, the Center for Climate and Energy Solutions, is discussing pathways to decarbonize the US economy [1].

I cannot follow the idea of decarbonizing any economy in order to stop climate change because

A. Individual human life needs necessarily carbon for its provision with material and energy. It may be called “nutritive energy”. Its carbon basis is beyond controversy.

B. Carbon cycling is necessary for most of the biologically active nature. Its carbon basis is also beyond controversy. It is used by man for nutritive and other reasons.

C. Carbon material and processing is used for maintenance of societal human life and has grown with rising velocity. It is not essential for human life. Subsequently, as present climate change came up an economic competition developed between proven supply of human society with energy based on carbon and newly introduced supply of human society with energy-based carbon-free.

D. Carbon-free energy was able to win certain positions, but it cannot be overlooked that carbon-based methods providing cannot be simply and quickly excluded. Right now, methods on carbon basis show advantage over the new ones because of favorable properties concerning availability, transport, and storage.

E. Decarbonizing economy is simply not to complete for principal and economic reasons.

I suggest to looking for reconciliation of carbon-based energy provision and climate stability by

F. Holding equal the amounts of CO₂ moving from the litho- and biosphere to the atmosphere (CO₂↑) and from the atmosphere to the bio- and lithosphere (CO₂↓) [2].

G. Helpful will be monitoring CO₂ flow, production and consumption.

H. Helpful will be differentiating fossil (°C) and atmospheric (°°C) carbon [2-4].

I. Helpful will be not to be slanted toward reduction of the amount of CO₂ flowing to the atmosphere but to raise also the amount of CO₂ flowing from the atmosphere to the bio and lithosphere

J. Curiously, the only method, presently available under control of man, catching atmospheric CO₂ via agriculture and forestry, seems to lose attention in the choice of means against progress of climate change.

I suggest to considering reserves of CO₂ movement from the atmosphere to the bio- and lithosphere

K. Producing as much biomass as possible in agriculture and forestry under optimization of input and output,

L. Amassing and processing wild plants by new types of combine converters,

M. Settling plants on sea,

N. Storing plant biomass apart the atmosphere underground and undersea

O. Storing biomass of phototrophic microorganisms underground and undersea

P. Circuitry of CO₂ by loading and unloading energy for work under inclusion as well as exclusion of the atmosphere and/or lithosphere

Moreover, I propose to pay more attention to the probable self-acceleration of climate change due to rise of surface temperature of the earth, increased liberation of water vapor, and liberation of ice-trapped methane.

I suggest to considering biotechnology as one of the main tools in developing solutions for stopping present climate change.

Finally, I am not happy about the sturdy resistance of a small

part of the scientific community developed against the thesis of carbon dioxide as the main reason for present climate change. But I am also not happy about the scarce resoluteness of most of the scientific community to seeking unchallengeable evidence that CO₂ is the main reason for present climate change. Could C2ES plead its influence that physics and geosciences will undertake to provide unchallengeable evidence that carbon dioxide is the main reason for present climate change?

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