

The global warming,
the next energetic crash...

Quid of the transportation ?



**The Naturally
Energetic
Movement !**
October, 5th, 2008

The climatic warming up is a fact proven by many considerations :

droughts, rains and tornados more frequent and violent,
thaw of the permafrost, receding without precedent of the Arctic floe,
modification of behavior of the migratory birds, date of wine-harvest more precocious, etc...

We only observe the beginnings of a lot bigger size phenomena,

especially if the likely wild consumption of oil, gas and fossil coal intensifies,
linked with the irrational use of dirty technologies and the growth of the world population.

The contribution of the CO2 freed by the human activities is incontestable and very probably essential.

Because if the reasons of this warming up are probably multiple to the scale of the geological times,
*the Mankind nearly frees **instantaneously** under the shape of CO2 the carbon accumulated
during hundreds of millions of years in the sediments.*

The most elementary common sense suggests that it necessarily has heavy consequences.

In 1896, Arrhenius declares that the industrial civilization will provoke a significant warming up of the climate,

after having estimated that the doubling of the CO2 concentration,
entails the rise of average temperature of the globe of 4°C.

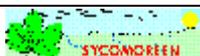
Since, the GIEC refined this point of view with a transdisciplinary scientific approach by the
collaborative work of thousand specialists among the most eminent all over the world.

*The Earth warms itself currently more quickly than 100 to 200 times
that natural cycles of temperature that it knew.*

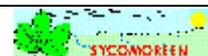
It is a huge climatic shock that is in front of us !

It risks to modify in depth the air and marine streams because multiple feedbacks will likely amplify more again the climatic global warming :

- The heat and/or the droughts slow down the life of the terrestrial ecosystems and inhibit their capacity to stock the CO2 under the shape of biomass; worse, they accelerate the decomposition of the organic matters in CO2.
- The oceans, others big wells of carbon and thermal regulators by their immense thermal capacity, contain the warming up at present BUT they acidify progressively :
 - o on the one hand, the aquatic life and therefore the storage of carbon under the shape of aquatic organic matters slows down,
 - o on the other hand, more the ocean is acidic and more the dissolution of CO2 in water will become difficult,
 - o and especially, the rise of the temperatures is susceptible to destabilize the hydrates of methane: methane is one of the most powerful greenhouse gases and its liberation in the atmosphere will auto-intensify, bringing a warming up of more than 5° by 2100, and probably of more than 10°C on the century to come.



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Three big technological mirages !

The storage of the CO₂ by burying is a pure heresy : not only this process requires more energy, therefore more of CO₂ emitted, but the CO₂ stored thus will escape undoubtedly to the scale of some decades.

Hydrogen is only an energizing vector ; it is the most diffusive and least energizing gas by unit of volume, although it's the most energetically costly to produce and to store : *its combustion only rejecting water must not make forget that it is the worse candidate in terms of mass production, transfers and storage.*

The geoengineering is a drift of ideas all more impracticable the some that the other and/or uncertain about their real effect (to deviate the solar radiance in the space, to spill sulfur in the high atmosphere...) ; *the remedy is capable to really prove to be worse than the pain.*

And the mirage of the economy and its capacity of regulation !

The economic growth founded on the GDP is a pure illusion. This vision considers like free the destruction of the initial stock of fossil energy that is not renewable to the scale of the human time. *In the present state, all the technico-socio-economic systems put in place by the developed nations are going to collapse if nothing is made in the next 2 or 3 decades.*

The tax Carbon *is an idea that debates itself* : although it wishes to reduce the oil consumptions and to start the renewable energies, *it risks to crush a few more the citizens and the enterprises at the time where they should fight against serious agricultural, economic and social difficulties. On the other hand, the likeliest scenario is that many countries won't play the game of this tax, notably the first 3 world energizing powers that are USA, China and Russia, completely devoted to the hydrocarbons with the respective "colors" oil, coal and gas. According to J.M. Jancovici himself, it is the market which is going to increase the price of the hydrocarbons drastically well beyond what the tax Carbon could make. And perhaps wars can also add even bigger effects ?...*

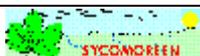
QUID OF THE TRANSPORTATION?

*If it remains founded so much on the fossil hydrocarbons, the present mobilities (terrestrial, aerial and naval), as well for people that for the goods, are not lasting and in a **very short delay** (< 20 years)!*

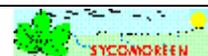
Then, are the disasters and the economic decrease unavoidable ?

ABSOLUTELY NOT : SYCOMOREEN is convinced that it is necessary to build immediately thermodynamic and photovoltaic solar powerplants (with strong return on investment...), **and in parallel to draw a new deal in the technologies of motors and fuels, while encouraging all productions of renewable origins.**

It is why SYCOMOREEN promotes the technology of the **Hyperthermal Trap of the Direct Solar Radiance (PHRSD)**, but also develops **technologies of ultra-compact or not-conventional motors** (as the Rotary Pistons engine with Controlled Beating (PRBC), the Stirling's engine SPRATL, and soon the POGDC machine) while **wishing the emergence of non conventional fuels** (by thermolysis of biomass and innovating electro-chemical storages).



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