

## — OPERATION THE GLOBAL RAMADAN — '09/2/5, 10/2/21, '11/10/7

In order to stop the emergent climate catastrophe of abrupt huge methane eruption from Arctic sea floor, the effective carbon reduction rate is more than **80%**. The allowable economy with less than 20% fossil energy is to force **global rationing**. Then former extravagant economy in advanced nations is no more possible. For recovering stable climate of CO<sub>2</sub> concentration of 350ppm, **about 40 years** could be estimated under the global regime. Certainly its accomplishing would need outrageous global effort in their **collaborations**. **Above all, ice cover melting never be allowable any more**. This is the absolute highest priority. **By anyhow, the global relief is nothing without by 80% reduction, which ly weaken little but instantly global radiative forcing to temperature rise trend down.**  
<http://www.777true.net/Global-Temperature-FACT-7.ppt>

### **[1]: The emergent necessity of drastic carbon sink and stopping coming heat flow countering to abrupt ice lid melt & following Methane clathrate in Arctic ocean:**

"The time limit of making decisive mind of people countering climate catastrophe is **2007/Dec/31**", revealed by Jucelino Nobrega da Luz the great Brazilian prophet. In the next year, **ice-cover** in the North pole had disappeared for the first time in history. Why is it Arctic? In Arctic shallow continental shelves, the huge amount of thermally unstable **methane clathrate (MC)** reservoir lie. The total reservoir in Arctic ocean is estimated 400GtC ~ 1000GtC. Then 10GtC eruption could be catastrophic, geoscientist said. Once ice-cover had disappeared, direct solar ray is to input to sea surface, which would enhance instability of **MC** by 1~2°C temperature rise. Methane eruption into atmosphere becomes stronger GHG causing rapid temperature rise. Thus this process becomes vicious positive feedback. That is results enhance its cause. Once such state had been realized, none could not stop by anyhow until encountering its saturation point, which would be globally catastrophic. It's a **fire ball earth**, where not only methane, but also sulphide hydrogen gas are erupting with flame. It is just a hell world of the final judgement. **None could be survive at there !!!**.  
<http://www.timesonline.co.uk/tol/news/uk/science/article1480669.ece>

Thus we, by anyhow, can not help to **stop ice-cover melting in Arctic ocean**. The unique and only method is **drastic carbon emission reduction of such as more than 80%**. Or we might need **geo-engineering to stop "heat flow into Arctic"**.  
[http://www.777true.net/Bering\\_Strait.pdf](http://www.777true.net/Bering_Strait.pdf)  
This is the emergent necessity in realism and in counter action.

**[2]: Ramadan Interval = how long does it take to pulldown CO2 from atmosphere ?.**

**① Global Carbon Budget = Unless 80% reduction, the recovery is no more hope ! !.**

[http://www.globalcarbonproject.org/global/pdf/GCP\\_CarbonBudget\\_2007.pdf](http://www.globalcarbonproject.org/global/pdf/GCP_CarbonBudget_2007.pdf)(p19).

<b>year (man made + natural)emitt and (oceans + land)sink by photosynthesis.</b>	
<b>+ man made emission</b> = 7.5PgC/y	P=10 <sup>15</sup> . "C" is carbon standard.
<b>+ natural emission</b> = 1.5PgC/y.	For example)
<b>—Oceans sinks</b> = 2.3PgC/y	CH4 = 16g, but C = 12g.
<b>—Land sinks</b> = 2.6PgC/y	CO2 = 44g, but C = 12g.
<b>+ atmospheric accumulation</b> = 4.2PgC/y (1.9ppm)	(1) <b>carbon budget:</b>

(2) **Target reduction amount = atmospheric accumulation + natural emission**

$$= 4.2\text{PgC/y} + 1.5\text{PgC/y} = 5.7\text{PgC/y}.$$

(3) **Target reduction rate = Target reduction amount / man made emission**

$$= 5.7 / 7.5 = 0.76 = \mathbf{80\%!!!!}.$$

(4) **Allowable amount of fossil energy = 0.2 x 7.5 = 1.5PgC/y.**

(5) **Pulling down amount of CO2 from atmosphere by 80% reduction:**

$$(\text{oceans} + \text{land})\text{sink} - (\text{man made} + \text{natural})\text{emitt} = (4.9 - 1.5 - 0.2 \times 7.5) = \mathbf{1.9PgC/y}.$$

**② Desireable CO2 concentration for accomplishing stable global climate state :**

(1) <http://www.climateimc.org/ja/breaking-news/2008/03/07/james-hansen-no>

[-more-conventional-coal-and-carbon-stabilisation-below-350pp](#),

(2) <http://www.guardian.co.uk/environment/2008/sep/15/climatechange.Carbonemissions>,

(3) As is mentioned by J.Hansen(1), **below 350ppm** is a target value for stabilizing.

However the value may be uncertain possibility due to the validities.

(4) CO2 concentration of now is **383ppm(2007)**.

(5) Target reduction ppm = 383-350 = **33ppm**.

(6) **The global CO2 amount in atomosphere = 3.05Tt(380ppm) = 8.3x10<sup>17</sup>gC = 830GtC.**

"Weight distribution of each GHG componets in Atomosphere"

<http://ja.wikipedia.org/wiki/%E5%9C%B0%E7%90%83%E3%81%AE%E5%A4%A7%E6%B0%97>

molecule	Mol ratio	weight	wei ratio	<b>Air total w = 5282Tt</b>
CO2(44)	0.000381	0.01676	0.000579	<b>3.05</b> Trillion ton(Tt) = 830GtC.
total	0.999981	28.9565		Air total w = 5282Tt

☞: 1mol molecule = Avogadro number = N<sub>A</sub> = 6.02214179 × 10<sup>23</sup> mol<sup>-1</sup>. ideal gas = 22.4l.

(7) **Total target reduction weight of CO2 = 8.3x10<sup>17</sup>gC x 33ppm/380ppm = 72PgC.**

(8) **The Ramadan Interval = 72PgC / (1.9PgC/y) = 40years by course linear estimation.**

**Above all and by anyhow, we must stop the ice-cover melting in Arctic.** Geo-

engineering such as water gate in Bering strait might be considerable to stop heat inflow..

### [3]:How to Design the long run of Global Ramadan Festival ??!:

#### <<The serious difficulty of global simulation on less than 20% carbon energy life>>

With >20% carbon energy,making life in now state is certainly very very difficult.

Then you should imagine the ancient peoples happy life with little energy.

An origin of primitive idea:About **50 years ago**(1960) of my childhood era,Japan was with about **20%** carbon energy.It's very poor life only with electric lights and radio and without icebox,however neighboureres were almost similar by any rate.By such reason,there seemed no remarkable inconvenient at that time.On the contrary,natural scenery and resources were more rich without cost.Then you should ask them the realities !?. Notable merits of those life may be **"self-sufficiency"** without **mass production and transportation with huge energy**.Or it may be told as less invasions of **mass money and the capitalism**.It's an example of escaping village<<http://www.ntv.co.jp/dash/village/>>

In the below,we assume the international >20% agreement accomplished.

Yah,itself is unprecedental difficulty,however without it,we would be extincted.

#### ①What would happen in economy regime of the 20%:priority in national policy.

The >20% energy must be distributed in **international optimal condition** for securing life.

#### ① optimal energy distrubution to industry the priority sequence :

(1)**food industry and the relative the highest:**

**food-energyself-sufficient(or more)communities the very best fundamental.**

(2)**minimum transportation**:rail way is the best effective in view of energy.

(3)communication :

(4)administrative functions with **perpetual creating high efficiency management**:

(5)**new energy industry** : producing new energy itself is constrained with the 20%.

water warming by solar ray,roof window,.... are **low cost and effective**.

(6)no producing new goods,but used to repair for mimimum energy.....

#### ② optimal distribution of work force with income or the equivalent:

(1)economy system with >20%,almost former industry and commercial activities would be disabled except ones of **higher priority in national policy**.

Consequently,**unprecedental amount of jobless people** could not be evadable !!!.

They shoud be **officially employed** and redistributed to **works of higher priority in national policy**.

This is a national war regime without wars.They become pseudo soldier

(= **national farmer soldier**)who are certified to eat and sleep at home and go to work-

place by order from command(hybrid of non-govermental and govermental).

Even without job,the seudo soldier never be difficulty in eating and sleeping.

## ② **Creating "primitive life model >20% fossil energy":**

① **food supply: Above all and by anyhow, food must be secured for all the people.**

(1) **urban cities:**

For enabling all the people living, semi-public centralized food supply may be best in energy consumption and view point of social welfare system. It's may be also higher efficiency for food transport from far district. Especially in urban cities, they consider themselves as war-homeless with stable soup-run.

(2) **food producing districts(countries):**

They could be **self-sufficiency** with some extra income by goods selling.

② **How to manage their enough leisure time with minimum energy ?!(non-experts) :**

By anyhow, the carbon extravagant industries would be extincted, so labour force become surplus enough. They fundamentally should work in time sharing. They could get enough leisure time to create something effectively good.

## ③ **Special projects for aiming optimal life system creating(experts):**

Rearrangement on research institutes would be evadable to create high efficiency on energy management and the relatives to secure nation people life.

(1) **non-carbon energy development.**

(2) high efficiency systems of traffic, production, living, communication, .....

<no cars, no long distance track transportations, no airplanes>

rail way system, subway, street railway car, horse and carriage, airship,

modified hybrid sail ship, .....

(3) increasing drastic vegetations on land and marine to sink CO<sub>2</sub>:

**deserts forestrization, recovering project of weakened forests**

(4)(5)(6)....

## ④ **Drastic decreasing of government revenue and government issued banknotes.**

Almost industry contributing huge amount of revenue would be extincted, so government issued banknotes with inflation would be evadable. Officers salary must be reduced to its limit level. Then non-government volunteers would be their actings. An idea is monopoly on fuel energy by government for securing revenue. The price of fossil energy should be public rate to suppress inflation.

It is global **fossil energy standard** in currency system.

## ⑤ Accomplishing global high efficiency by International Population Migration:

The RAMADAN term would be so long as many decades, so temporal and international population migration would be effective to secure 20% fossil energy system. For example, USA is more totally rich in foods and homes than any other nations. Then it is evident that such rich nation be sufficiently generous and tolerable for global co-live policy.

## ⑥ The criterion of project security index or efficiency one:

- (1) **Above all, ice cover melting never be allowable any more !!**. This is the highest priority. Within this absolute condition, would there be certain margin ?  
Perhaps global CO<sub>2</sub> sink amount 1.9PgC should be sustained with constant at any years. Then could short interval violation be possible or not ?

For example, big project for big CO<sub>2</sub> sink may be variously possible, however it would be dangerous if the project need huge CO<sub>2</sub> emission.  
Then how to manage those risk possibility ?

- (2) Assuming following model, and then judge whether it is safe or danger ?

For realizing a project, it need CO<sub>2</sub> emission by  $X(x)$ PgC in  $x$  years,  
and the completion of project could sink CO<sub>2</sub> by  $Y(y)$ PgC/ $y$  years.  
Then  $X(x)$  and  $Y(y)$  are time dependent functions.

- (3)(4)(5)

### —summary—

Above all, decisive philosophy of co-living in all the people would be crucially necessary. Unless it, what would happen ?!

- (1) **Above all, ice cover melting in Arctic never be allowable any more !!**  
**In the shallow continental shelves, thermally unstable MC bombs lie !!!**
- (2) **CO<sub>2</sub> sink 1.9PgC should be constantly sustained at any years.**
- (3) **Creating "primitive life model with <20% fossil energy":**
- (4) **Optimizing on the energy distribution to industry the priority sequence.**
- (5) **Optimizing distribution of work force with income or the equivalent.**
- (6) **Optimizing International Population Configuration.**
- (7) **Creating global project for low carbon energy and high carbon sink.**
- (8)(9)(10)

-postscript-

The unique and only aim of this report is to acknowledge relief possibility to people who might become despair in encountering 80% reduction rate in CO2 emission. It has no sufficient time and ability for author to describe quantitative validities, which are also works for everyone the ambitious.

Those would be unprecedented large scale simulation analysis projects which decisively need genuine and passionate ability of global people and researchers. To stimulating global and emergent discussion is authors true aim. It is entirely no matter whether the details of report is right or wrong.

"Imaginable matters are also realizable"- Jules Verne.

Supplement1:

The time lag of temperature down in Arctic Ocean may be 1~2 years?!. Global radiative forcing would instantly respond by down of GHG concentration. However the momentum of heat flow with ocean one would take few years of relaxation time. Above all, global heat capacity is that of ocean with nearly depth 600m. The flow from tropical zone (highest temperature) to Arctic (lowest temperature) may be about 1~2 years. **Therefore the decision making for CO2 reduction needs emergent one for stopping ice cover melting in Arctic.**

Supplement2:

It is too late to notify isn't it ?. Yes, it is. To tell for author, it was December 2007 when he had known something abnormal by Jucelino Nobrega da Luz the great Brazilian prophet. It took almost a year to learn climate and geoscience knowledge to judge for emergent action. As was said so, even now, he is far from expert who can estimate by quantitative analysis with computer. On the contrary, why could experts notify us the emergent crisis of Arctic ?. To tell the fact, there are scientists who have been warning the crisis. However the global mass media had neglected those actions with conscious and unconscious. **Above all, the fatal obstacle factor is the sustainability of capitalism who fear for their decline by outrageous reduction of fossil energy. The postponing of decision making is only reducing allowable fossil energy amount of 20% to such as 10% or nothing at last.**