

Review Article

Global Warming will Stop, If Developed Countries Stop NO_x and NP Eliminations

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Abstract

Carbon dioxide CO₂ increasing 2 ppm yearly, since developed countries started elimination of NO_x and elimination of NP. Global warming is happening by the decrease of CO₂ assimilation from insufficient supply of NP fertilizer. Developed countries hated NO_x and NP and are eliminating NO_x and N, P. About 6 billion tone NO_x in burned gas is eliminated by ammonia. About 2 billion tone NP in waste water is eliminated by activated sludge process using much electricity. CO₂ assimilation is retarded by insufficient supply of NP. Plankton growth is retarded. CO₂ fix is retarded. Developing countries do not eliminate NO_x and NP. Then CO₂ assimilation is activated. These countries are keeping high GDP increase rate. If developed countries stop eliminations of NO_x and NP, CO₂ assimilation will be activated. CO₂ increase will stop. Production of grain and fish will increase. DGP will increase and global warming will stop.

Keywords: CO₂ assimilation; GWPR; NO_x; NO_x elimination; NP elimination; Protection of global warming

Introduction

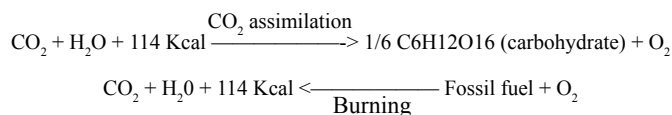
The earth is warming by the increase of burning of fossil. In the world, 140 billion tone fossils are burned. Three times of CO₂ 420 billion tone CO₂ and 16.8 billion tone NO_x (mixture of 90 % NO and 10 % NO₂) are produced. Almost 100% of produced CO₂ is converted to carbohydrate (later fossil) by CO₂ assimilation.

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Global warming protection ratio (GWPR) = produced CO₂ / fixed CO₂

Cause of global warming is said to be increase of CO₂. CO₂ is increasing 2 ppm annually.

About 140 billion tone CO₂ is remaining un assimilated. CO₂ assimilated CO₂ is 280 billion tone. GWPR = 420/280 = 1.55. We can decrease GWPR by decrease of produced CO₂ or by increase of fixed CO₂. To increase fixed CO₂, acceleration of CO₂ assimilation by increasing the supply of NP. Developed 7 countries wish to provide clean water and clean air and eliminated NO_x and NP. By these eliminating procedure, supply of NP is retarded, CO₂ assimilation is retarded and growth of plant is retarded and production of food like grain and fish is retarded, DGP increase is stopped and countries are declining [1-38].

NO_x should be released as it is

NO_x is playing very important role for CO₂ assimilation, growth of plant and plankton, climate control [39-56]. But developed countries are eliminating NO_x by ammonia by the reaction.



The reaction (1) is elimination of one fertilizer by other one fertilizer. This is tremendous loss of precious resources. This reaction is causing global warming. This reaction should not be done.

Since this reaction was carried out, Seto inland sea, Japan changed dramatically. Transparency of sea increased. Turbidity by plankton disappeared. Eel glass disappeared. Fish, sell and sea weed production decreased. Fish production of the world increased at developing countries that do not do NO_x elimination like China, India and Indonesia. But fish production of developed countries decreased since NO_x elimination.

Waste water should be dumped as it is

Developed countries are eliminating NP in waste water. In Japan 2200 waste water clean center were build 117.8 billion kWh electricity (1.16 % of total electricity 10080billion kWh) were used for the operation of this center. For the production of 117.8 billion kWh electricity, 600 thousand tone fuels were burned. If we stop waste water purification. 600 x 3 = 1600 thousand tone CO₂ emissions are saved. By the operation of this center, Emission of 44.8 thousand tone N and 17.5 thousand tone P is lost. By the elimination of NO_x and NP, Fish production of Japan decreased from 12 million tone of 1975 to 2.5 million tone after 1980. Because of decrease of NP concentration of sea water, plankton cannot grow and fish, cell, sea weed cannot grow. Fish eat 20 times plankton. Plankton grows by eating same weight CO₂.

By elimination of NP, $12 \times 20 = 240$ million tone CO₂ fix is lost. If Japan stop NO_x, NP elimination and increase NP concentration increase and 2.4 billion plankton grow and 2.4 billion tone CO₂ is fixed and 12 million tons fish will be produced [13,14,21,31-38].

Bon fire is recommend

Slash and burn agriculture is carried out for many thousand years in the world. Wood is burned and wood turn to the field which can produce crops. Ash produced by burning is said to be effective substance. But main effective substance is NO_x [35]. When tree 1000 tone is burned, $1000/25 = 40$ tone NO_x is produced. And 40 tone NO_x can grow $40 \times 25 = 1000$ tone plant [35]. In Japan, 3 billion tone garbage is collected and burned at high temperature incinerator to produce 0.12 billion tone NO_x. This NO_x is eliminated by ammonia.

In Japan very special law about the garbage incinerator was set up in 2002 by the reason much NO_x is produced at lower temperature. By this rule, incinerator must be burned at higher temperature than 800 °C by adding excess fuel to keep higher temperature. Corrugated carton and fallen leaves must be burned at high temperature incinerator. Bon fire is inhibited by the reason bon fire produce much NO_x. Burning of rice straw wheat straw is not possible. Big earth quake and tsunami happened in east Japan in 2011. Debris disposal was not allowed to burn on site. Debris disposal must transfer to far away district having high temperature incinerator consuming much fuel and money. Operation of this high temperature incinerator is using much excess fuel releasing much CO₂.

Garbage, waste wood, fallen leave, straw should be burned on site producing much fertilizer NO_x. Bon fir inhibition rule should be abandoned.

Method to fit Paris agreement

510 billion tone CO₂ are now producing in the world. To fix so much CO₂, promote plant growth and increases of CO₂ fix are essential.

Plant has C/N = 25/1 composition in average. As one molecule N combine with 25 molecules CO₂, supply of $510/25 = 20.5$ billion tone N is essential. To supply N, NO_x should be released to air as it is. NO_x is produced 16.8 billion tone. In waste water, estimated 10 billion tone NP are contained. From these NO_x, NP, 7 developed countries are eliminating 6 billion tone NO_x and 4 billion tone NP.

To stop the increase of CO₂, to accelerate CO₂ assimilation, 7 developed countries should stop NO_x elimination stop NP elimination and do bon fire. Then $(6+4) \times 25 = 250$ billion tone CO₂ can be fixed. CO₂ emission and fix become equal and GWPR (Global Warming Protection Ratio) become 1 and fit Paris agreement [5,7,10,16,19,22,24,29,31-38].

Comparison of NO_x, NP elimination countries and no NO_x, NP elimination countries

Developing countries like China, India do not eliminate NO_x and NP and release as it is. Electricity price is low. CO₂ assimilation is activated. Production of agriculture and fish industry increase. GDP is increasing 6% for 40 consecutive years. China use 106 billion tone CO₂ and 4 billion tone NO_x effectively and increased fish production to 81.53 million tone.

India use 1 billion tone NO_x effectively and grain production increased 5 times in 1950—>2010. Population increased 3.8 billion to 12.5 billion in 1951—>2014. On the contrary, 7 developed countries are eliminating NO_x, NP and CO₂ assimilation is depressed. Production of grain and fish is depressed. GDP growth rate is low. GWPR is high. Japan is doing NO_x, NP elimination most severely. 8 million tone fish production is lost yearly. Fish price is 10 \$ /Kg. Japan is losing 0.08 billion \$. 6.7 million \$ per person. GDP growth rate increased only 1.6 % from 1985 to 2017 the country who use NO_x, NP are growing and increasing population. The country who eliminate NO_x, NP are declining and decreasing population [32].

CO₂ em (CO₂ emission), CO₂ fix, CO₂ em/p (CO₂ emission per person), NO_x con (NO_x concentration at exit gas), W dump (Wastewater dumping), GWPR (global warming protection ratio), GDP (GDP increase ratio) of 11 countries are shown in table 1.

Country	CO ₂ em	CO ₂ fix	CO ₂ em/p	NO _x con	W Dump	GWPR	GDP
	bill t	bill t	tone	g/kWh			inc ratio
World	510	370					
China	106	100	8	1.6	do	1	6.9
India	24.6	24.6	1.9	1.6	do	1	7.1
Indonesia	5	5	2.1	1.6	do	1	5.2
USA	51	51	19.1	0.5	no	1	1.48
Japan (2018)	12.5	3.8	8.9	0.1	no	3.3	1.03
(1980)	5.5	5.5	3.1	1.6	do	1	7
Russia	19.6	19.6		0.61		1	0.8
Germany	7.8	3.5	8.9	0.31	no	2.2	1.83
U. K	4	2.4	5.6	1.3	no	1.7	1.8
Italy	3.5	3	5.8	0.5	no	1.2	0.88
France	3.3	3.3	5		no	1	1.2
Canada	5.6	5.6	18	1.3	no	1	1.44

Table 1: CO₂ em (internet), CO₂ fix [21], CO₂ em/p(internet), CO₂ con (CO₂ concentration of exit gas) [19], GWPR = CO₂ em/ CO₂ fix, GDP (internet).

Japan, Germany, UK and Italy are narrow and they cannot fix CO₂ produced at their countries. GWPR is over 1. These countries are surrounded by sea. They can fix CO₂ by plankton CO₂ assimilation by increase of NP concentration of sea. NO_x, NP elimination should be stopped

Japan should stop NO_x, NP elimination and should not inhibit bon fir

Japan is criticized as producing much CO₂. Japan producing much CO₂ for electricity generation for elimination of NO_x, NP. Japan established very severe law. Every factory must eliminate NO_x by NH₃ to less than 0.1 g/kWh. Japan eliminates NP in waste water purification center completely using much electricity. Japan producing 12.5 billion tone CO₂ and criticized as most CO₂ increasing country. Wood and agriculture field can fix 1000 tone CO₂ per 1 Km². Japan land is 3.8 x 10⁵ km². Fixable CO₂ at Japan is 3.5 x 10⁵ x 1000 = 3.8 billion tone. Japan increasing 12.5-3.8 = 8.7 billion tone CO₂.

GWPR of Japan is 12.5/3.8 = 3.3. Japan is using 28 million tone NH₃ for the elimination of NO_x. 11 million tone butane is used for the preparation of NH₃ and generating 33 million tone CO₂. Japan also using 118 billion kWh electricity for water purification [35]. If Japan stop NO_x, NP elimination, CO₂ emission will be reduced to 12.5-1 = 10.6 billion tone. By using 0.5 billion tone NO_x, 0.5 x 25 = 12.5 billion tone CO₂ can be fixed. GWPR will decrease to 10.5/12.5 = 0.84. This value is fit to Paris agreement.

Conclusion

Promotion of CO₂ assimilation by stopping NO_x and NP elimination is easy way to protect global warming. If developed countries stop NO_x, NP elimination, CO₂ assimilation is promoted, CO₂ does not increase. Grain and fish production increase. GDP increase and global warming will stop.

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