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NOx should be recycled by stoping of NOx elimination by ammonia. Waste water purification center should be closed

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Abstract

Global warming is caused by the lack of N and P and decrease of CO_2 assimilation and decrease of CO_2 fix and decrease of heat absorption. Lack of N and P is caused by the elimination of NOx and NP in waste water. Fish production at Seto inland sea decreased 90% by the lack of N and P.

Global warming will stop if developed countries stop the elimination of NOx and NP. CO_2 assimilation will be activated and Global warming will stop.

The author presented petition to stop the elimination of NOx by ammonia and to close waste water purification center. If developed countries stop the elimination of NOx by ammonia and close waste water purification. CO_2 assimilation is activated and Global warming will stop

Keywords: NOx; CO_2 assimilation; NOx elimination by ammonia; Carbon neutral; Stop of global warming; GWPR

1. Introduction

Global warming is in progress. CO_2 concentration is increasing 20 ppm every year. Increase of CO_2 is caused by the decrease of CO_2 assimilation. Decrease of CO_2 assimilation is caused by the lack of nitrogen (N) and phosphorous (P). Lack of N and P is caused by the elimination of N and P in waste water and elimination of NOx by the insertion of ammonia into exit gas. Concentration of N,P decreased. Growth of plankton decreased. Fish production of Japan decreased from 12 million tone to 4 million tone. Author suggested the reasons and method to protect global warming by 60 papers (ref 1-60). But global warming is progressing. Then author presented petition (61,62) to ask the stopping of ammonia addition to the exit gas and asked closure of waste water clean center.

Conference of 7 developed countries decided the elimination of NOx in exit gas and elimination of N,P in waste water. They tried to eliminate NOx by the reaction of ammonia.

$$4\ NO + 4\ NH_3 \longrightarrow 4\ N_2. + 6\ H_2O$$

Japan set up waste water purification center. And eliminated N,P.

The author published 60 papers against this policy. But Japan government do not follow my opinion. And continuing their policy and global warming is in progress.

Then I presented petition （ref 91) to the Tokyo Regional court civil matter department demanding

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The abolition of following two laws

- Protection of air pollution
- Protection law to protect water quality

Defender Kishida Fumio prime minister

But this petition is rejected by the reason prime minister cannot be a defender.

Then author presented new petition (ref 62) demanding

- Stop NOx eliminatesion by stopping the addition of ammonia in to the exit gas.
- Close waste water purification canter
- Send this petition to defender and read the attached document carefully. Open oral arguments

Defender Nishimura Akihiro Minister of the Environment

Ministry of the environment is set up around 1985 . And they are trying to purify water and air and they inhibited the release of waste water containing nitrogen and phosphorous compound. They set up 2200 waste water purification center and N and P is made to activated sludge. Ocean dumping of disposal of human excreta is inhibited. As the result, concentrated of N and P in sea decreased, and CO_2 assimilation decreased and production of plankton and fish decreased. Waste water purification center should be closed.

Seven developed countries disliked NOx in exit gas of car as toxic substance. They extend their idea to the exit gas of electricity generation plant. They tried to eliminate NOx by the reaction with ammonia

CO_2 produced at developed countries is around 10 billion tone. And around 10x 1/25 = 4 hundred million tone NOx is produced. 400 hundred million tone NOx is eliminating by 227 million tone NH3 every year. This gave big damage for developed countries This reaction should not be done. Ammonia addition to the exit gas should be stoped.

2. Waste water clean center should be closed

Japan constructed 2200 waste water purification center to eliminate NP. Author investigated Yamazaki waste water purification center at Yamazaki, Kamakura in Japan (ref 38). This center cover 96881 persons. Water 98287 m3 containing Nitrogen 40 mg/l, Phosphorous 4.2 mg/l is treated by activated sludge process. Air is bubbled for ten hours to give water contains Nitrogen 7.5 mg/l ,Phosphorous 2.73 mg/l. Consuming 8841200kWh electricity. Population of Japan is 120 million.

This data showed that if Japan stop waste water clean center 44900 tone Nitrogen, 174 00 tone Phosphorus can work as fertilizer Phosphorous is eliminated in one day at this center. This data indicate 7.34x 120000000/ 96881x 365 = 140 million tone Nitrogen, 12.8 million tone Phosphorous can work as fertilizer in one year. 140x25= 3200 million tone CO_2 is fixed and 3200 million tone plankton can grow and 3200x 1/10 = 3.5 million = 35tone fish will be produced. By stopping of waste water purification center, consumption of 884100X 12000000000/ 96881 = 110 billion kWh electricity(100880/110 = 1.11% of total electricity consumption 1000880 kWh of Japan)is saved. For the generation of electricity, 59000 tone CH_4 is used. By stopping of waste water purification, baying of 590000 tone CH_4 become unnecessary and 590000 x 3= 1770000 t CO_2 emission will stop. Each house must pay waste water purification fee(about 30 $ in addition to water fee. If waste water clean center is closed, we need not pay waste water purification fee. If waste water purification is not done in Japan ,140x25 = 35 million tone CO_2 is fixed and 35 million tone plankton can grow and 35x 1/10 = 3.5 million tone fish will be produced. Therefore waste water clean canter should be closed.

Phosphorous and nitrogen eliminations of the world will be 10 times of Japan. If developed countries stop the elimination of nitrogen and phosphorous by stopping of waste water purification center , 82950 tone fish will be produced. And 121660 tone CO^2 will be fixed.

- Nitrogen 3318x 10 = 33180 tone
- Phosphorous 318 x 10 = 3180 tone.
- Then 33180 x 25 = 82950 tone fish
- 82950 x 44/ 30. = 121660 tone CO_2

2.1. Elimination of NOx in exit gas by ammonia should be stoped.

NOx îs a gift from nature. NOx is produced by thunder NOx is produced when some thing is burned. NOx is natural fertilizer. Seven developed countries mis estimated the utility and toxicity of NOx. NOx is not toxic when NOx is released at open air. NOx îs necessary compound for CO_2 assimilation(ref 7). NOx must be recycled. But conference of 7 developed countries decided to eliminate NOx by the reaction with ammonia.

$$4NO. + 4\ NH3 \text{ ——-> } 4\ N2 + 6\ H_2O$$

Developed countries are eliminating NOx and nitrogen and phosphorous and CO_2 assimilation is blocked and CO_2fix is reduced . CO_2 is increasing.

The author realized that this reaction is the main reason of global warming. This reaction is the reaction of one nitrogen compound with other nitrogen compound to give N2. For the preparation of ammonia, much CH_4 is necessary (ref 50-55).

CO_2 produced at developed countries is around 10 billion tone. And around 10x 1/25 = 4 hundred million tone NOx is produced. To eliminate this NO (90% of NOx is NO), 226 million tone ammonia NH3 is used. Amount of NOx is so much . Elimination of NOx use much ammonia and natural gas. These decision give great damage for agriculture and fish industry , GDP and protection of global warming.

NOx îs eliminated by ammonia. Ammonia is produced by the reaction of nitrogen and hydrogen. Hydrogen is produced by the reaction of methane with water.

$$4\ NO\ (120) + 4NH3\ (68) + O_2 \text{ ————-> } 4\ N_2 + 6\ H_2O$$

400 mill t 226.7 mill t

To make 226.2 mills NH3, 400 mill t H_2 is used.

$$3H_2\ (6) + N_2 \text{ ————-> } 2NH_3\ (34)$$

400 mill t 226.2 mill t

To make 400 mill tone H_2, 80000 mill t CH_4 is used. And 220 mill t CO_2 is produced.

$$CH_4\ (16) + 2\ H_2O \text{ ————> } 4\ H_2(8) + CO_2\ (44)$$

8000 mill t 400 mill t 220 mill t

Government of developed country asked the addition of ammonia to the exit gas of factory by the ratio of 400 mill tone NOx to 226.7 mill tone ammonia If factory do not follow this rule, they cannot operate the factory Amount of NOx and ammonia is huge . Japan is keeping this arrangement most honestly. Then NOx concentration in exit gas of Japan is lowest 0.1 g/kWh ,USA is 0.5 g/kWh ,Germany 0.31 g/kWh and China,India, Indonesia (no NOx elimination country) are 1.6 g/kWh.. GDP ratio 2021/1991 USA is 3.2, Japan 1.1, Germany 4.3, Developed countries use much fossil to eliminate NOx The price of electricity is high and productive industry moved to developing countries. These countries increased GDP. 2021/1991 China 51.1,India 11.1. No NOx elimination country use NOx as fertilizer and getting much food and fixing all CO_2 produced at his country. GWPR of developed countries is over 1. Japan is 3.3. and criticized as carbon country. The price of electricity differ greatly by doing NOx elimination or not. Developing country like China 1.4-4.3 c/kWh, India, 6 c /kWh,Indonesia 10 c/ kWh. Developed countries who eliminate NOx USA 10 c/kWh, Japan 24 c/kWh,Germany 33 c/kWh,UK 15.4 c/lWh,Italy 28 c/kWh.

If developed country stop the addition of ammonia to the exit gas, Consumption of 8000 million tone CH_4 can be saved. And emission of 220 million tone CO_2 can be saved. And 400 mill t x 25 = 10 billion t CO_2 can be fixed. Accordingly 220 mill t + 10 bill t = 10.22 billion tone CO_2 can be fixed. CO_2 em addition of developed countries is 10 billion tone.GWPR (CO_2em)/ (CO_2fix) = 1.

Therefore, CO_2 increase is zero. 10.22 billion Tone CO2 produce plant like wheat. CO_2 produce plant 2/3 30(1/6 of molecular weight of C6 $H_2$0 O6) /44 Molecular weight of CO_2)) weight of his weight. Wheat contain 2/3 straw of his

weight Wheat grain will be about 1/3 weight of plant. 10.22 billion Tone CO_2 can afford 10.22 billion x 30/44 x1/3 = 2.32 billion tone grain. 1kg wheat is 1.5 $ 2.32 billion kg wheat is 3.48billion $. Therefore, if developed country do not eliminate NP. 2.32 billion Tone wheat. 3.48 billion$ is produced. GDP will increase. Economy of developed country will become much better. And global warming will not happen

At this moment Japan is using 28.33 mill tone ammonia and global warming is progressing. Global warming must stop sooner. Therefore author presented petition asking to stop the addition of ammonia into exit gas

In Japan 125 million tone CO_2 and 1250x1/25= 50 million tone NOx (90 % is NO) is produced. Recycle of nitrogen and phosphorous is necessary. If we stop the addition of ammonia and stop the supply of electricity to clean center. Then following damage will be recovered.

To eliminate NOx, 28.33 million tone NH_3 is used.

$$4\ NO\ (\text{molecular weight } x4=120) + 4NH_3\ (68) + O_2 \text{ —-> } 4\ N_2 + 6\ H_2O$$

50 mill t 28.33 mill t

To make 28.33 mill tone ammonia, 5 mill t hydrogen is used.

$$3H_2 + N_2 \text{ ————-> } 2\ NH_3$$

5 mill t 28.33 mill t

To make 5 mill t H_2, 10 mill t CH_4 is used and 27.5 mill t CO_2 is produced

$$CH_4\ (16) + 2\ H_2O \text{ ————> } 4\ H_2\ (8) + CO_2(44)$$

10 mill t 5 mill t 27.5 mill t

Japan is eliminating 50 mill t NOx by spending 10 mill t LNG emitting 27.5 mill t CO_2.

If Japan do not eliminate NOx, Japan can fix 50 x 25 = 1250 mill t CO_2.

CO_2 grow plankton 2/3 of his weight (30 1/6 of molecular weight C6H12O6 /44 CO_2 molecular weight). Fish grow by eating 10 times of plankton. 10 bill t CO_2 fix mean 10x 3/4x1/10 = 7.5 bill kg fish production. Fish price is 2 $ per kg. 2x 75 = 150 billion $. But by the elimination of NOx, 150 billion $ fish was not produced. Japan was producing 12 mill t fish and 4 mill t rice before 1980 at that time no elimination. By the elimination of NP only 4 million fishes were produced. Fisherman 388990 in 1963 decreased to 151700 in 2018. Country region is suffering from depression and depopulation. GDP does not increase since NP elimination has started. The elimination of NP influence not only warm up earth but also give significant bud influence on economy. If elimination of NOx by blow in ammonia to the exit gas stopped and elimination of NP in waste water stoped, around 10x 1/25 = 4 hundred million tone NOx is produced. 4x25 = 100 hundred million tone (10 billion tone) grain will be produced.

3. Comparison of GWPR and GDP at developed countries and developing countries

Developed countries are emitting about 10 billion tone CO_2 and emitting 400 million tone. NOx. 400 million tone NOx is destroyed by 226.2 mill tone ammonia. 226.2 million tone is produced from 400 million tone hydrogen.400 million tone hydrogen is produced from 8000 million tone CH_4 producing 220 million tone CO_2..

It is difficult to reduce CO_2 but it is easy to reduce GWPR by increase of CO2 fix. To increase CO_2 fix, by increase of NP. To increase NP, just stop the elimination of NP. To increase N and P, stop the elimination of NP. Developing countries like China、India and Indonesia are using NOx and NP as fertilizer. CO_2 assimilation is promoted rapidly and production of agriculture and fish industry increased rapidly and GDP increase rate are high. On the contrary at developed country, CO_2 assimilation is inhibited and production of agriculture and fish industry is inhibited. Economic and social influence are immeasurable grate. We can compare developed country who doing NOx, NP elimination and developing countries who use NOx, NP as fertilizer. (ref 56-60)

CO_2em (CO_2emission), NOx (NOx production), NOxc (NOx concentration at exit gas), Dump (Wastewater dumping), Fixable CO_2, GWPR (global warming protection ratio),GDP (GDP ratio 2021/1991) of 13 countries are shown in Table 1

Table 1 CO_2 emit, NOx,NOxcon, Dump, FixableCO_2 GWPR,GDP of 13 countries

Country	**CO_2 emit**	**NOx**	**NOxcon**	**Wdunp**	**FixablICO_2**	**GWPR**	**GDP**
	Hmilt	**Hmillt**	**g/kWh**		**Hills**		**2021/1991**
World	510	16.5					
China	196.4	4.25	1.6	Do	100	1.0	51.1
India	24.6	1	1.6	Do	32	0.76	11.1
Indonesia	5.0	0.2	1.6	Do	19	0.3	
USA	51	2	0.5	No	95	0.53	3.7
Japan	12	0	0	No	3.8	3.3	1.1
Russia	19.6	0.63			32	0.61	
Germany	7.6	1.0	1.0	No	2.2	2.2	4.3
UK	4.0	0.16	1.3	No	2.4	1.2	3.3
Italy	3.5	0.14	0.5	No	3.0	1.2	
France	0.12			No	6.4	0.4	
Canal	5.6	0.22	1.3	No	199	0.06	
Iran	6.3	0.025			1.6	3.0	
Turky	4.0	0.16			7.6	0.5	

Developed countries can get 174.4 billion $, by stopping NP elimination and can get high GDP and GDP ratio 2021/ 1991 will increase as China.

Not only elimination of NOx and NP are promoting global warming, but also retarding development of countries and industry. Japan government consider that ammonia as a substance that do not produce CO_2 and using ammonia to eliminate NOx. CO_2 produced in Japan is 1.25 billion tone. NOx produced in Japan is 1/25 of 1.25 billion tone, 50 million tone. Japan is eliminating 20 times of synthetic fertilizer 2.5 million tone. Then NOx is not destroyed and CO_2 assimilation will progress and much fish and grain will be produced and GWPR will decrease and GDP will increase .

The complete recycle of nitrogen and phosphorous become possible.Sufficient supply of nitrogen and phosphorous is done and food production will increase GDP will increase. National economy and wealth will increase.

4. Conclusion

Complete recycle of nitrogen and phosphorus is necessary to stop global warming. Stopping of ammonia addition to the exit gas and closing of waste water purification center can increase NP concentration and can activate CO_2 assimilation and can produce much grain and fish and can get high GDP and growth and can stop global warming.

Compliance with ethical standards

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[ref 7], International J of Waste Resources [ref 16.19], International J of Earth Sciences and Biology[ref 29]who advised me to write papers without asking any publication fees.

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