



(REVIEW ARTICLE)



## NO<sub>x</sub> should be recycled by stoping of NO<sub>x</sub> elimination by ammonia. Waste water purification center should be closed

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GSC Advanced Research and Reviews, 2023, 15(02), 113–120

Publication history: Received on 08 April 2023; revised on 14 May 2023; accepted on 17 May 2023

Article DOI: <https://doi.org/10.30574/gscarr.2023.15.2.0142>

### Abstract

Global warming is caused by the lack of N and P and decrease of CO<sub>2</sub> assimilation and decrease of CO<sub>2</sub> fix and decrease of heat absorption. Lack of N and P is caused by the elimination of NO<sub>x</sub> 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 NO<sub>x</sub> and NP. CO<sub>2</sub> assimilation will be activated and Global warming will stop.

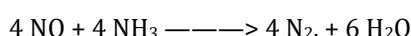
The author presented petition to stop the elimination of NO<sub>x</sub> by ammonia and to close waste water purification center. If developed countries stop the elimination of NO<sub>x</sub> by ammonia and close waste water purification. CO<sub>2</sub> assimilation is activated and Global warming will stop

**Keywords:** NO<sub>x</sub>; CO<sub>2</sub> assimilation; NO<sub>x</sub> elimination by ammonia; Carbon neutral; Stop of global warming; GWPR

### 1. Introduction

Global warming is in progress. CO<sub>2</sub> concentration is increasing 20 ppm every year. Increase of CO<sub>2</sub> is caused by the decrease of CO<sub>2</sub> assimilation. Decrease of CO<sub>2</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> in exit gas and elimination of N,P in waste water. They tried to eliminate NO<sub>x</sub> by the reaction of ammonia.



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 NO<sub>x</sub> elimination by stopping the addition of ammonia in to the exit gas.
- Close waste water purification center
- 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<sub>2</sub> assimilation decreased and production of plankton and fish decreased. Waste water purification center should be closed.

Seven developed countries disliked NO<sub>x</sub> in exit gas of car as toxic substance. They extend their idea to the exit gas of electricity generation plant. They tried to eliminate NO<sub>x</sub> by the reaction with ammonia

CO<sub>2</sub> produced at developed countries is around 10 billion tone. And around  $10 \times \frac{1}{25} = 4$  hundred million tone NO<sub>x</sub> is produced. 400 hundred million tone NO<sub>x</sub> is eliminating by 227 million tone NH<sub>3</sub> every year. This gave big damage for developed countries This reaction should not be done. Ammonia addition to the exit gas should be stoped.

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## 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 m<sup>3</sup> 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.

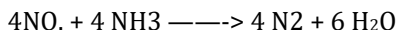
This data showed that if Japan stop waste water clean center 44900 tone Nitrogen, 174 00 tone Phosphorus can work as fertilizer Phosphorous is eliminated in one day at this center. This data indicate  $7.34 \times \frac{120000000}{96881 \times 365} = 140$  million tone Nitrogen, 12.8 million tone Phosphorous can work as fertilizer in one year.  $140 \times 25 = 3200$  million tone CO<sub>2</sub> is fixed and 3200 million tone plankton can grow and  $3200 \times \frac{1}{10} = 3.5$  million = 35tone fish will be produced. By stopping of waste water purification center, consumption of  $884100 \times \frac{1200000000}{96881} = 110$  billion kWh electricity(  $\frac{100880}{110} = 1.11\%$  of total electricity consumption 1000880 kWh of Japan)is saved. For the generation of electricity, 59000 tone CH<sub>4</sub> is used. By stopping of waste water purification, buying of 590000 tone CH<sub>4</sub> become unnecessary and  $590000 \times 3 = 1770000$  t CO<sub>2</sub> 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 , $140 \times 25 = 35$  million tone CO<sub>2</sub> is fixed and 35 million tone plankton can grow and  $35 \times \frac{1}{10} = 3.5$  million tone fish will be produced. Therefore waste water clean center 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<sub>2</sub> will be fixed.

- Nitrogen  $3318 \times 10 = 33180$  tone
- Phosphorous  $318 \times 10 = 3180$  tone.
- Then  $33180 \times 25 = 82950$  tone fish
- $82950 \times \frac{44}{30} = 121660$  tone CO<sub>2</sub>

## 2.1. Elimination of NO<sub>x</sub> in exit gas by ammonia should be stopped.

NO<sub>x</sub> is a gift from nature. NO<sub>x</sub> is produced by thunder NO<sub>x</sub> is produced when some thing is burned. NO<sub>x</sub> is natural fertilizer. Seven developed countries mis estimated the utility and toxicity of NO<sub>x</sub>. NO<sub>x</sub> is not toxic when NO<sub>x</sub> is released at open air. NO<sub>x</sub> is necessary compound for CO<sub>2</sub> assimilation(ref 7). NO<sub>x</sub> must be recycled. But conference of 7 developed countries decided to eliminate NO<sub>x</sub> by the reaction with ammonia.

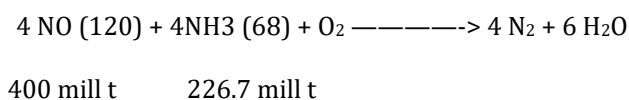


Developed countries are eliminating NO<sub>x</sub> and nitrogen and phosphorous and CO<sub>2</sub> assimilation is blocked and CO<sub>2</sub>fix is reduced . CO<sub>2</sub> is increasing.

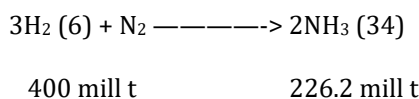
The author realized that this reaction is the main reason of global warming. This reaction is the reaction of one nitrogen compound with other nitrogen compound to give N<sub>2</sub>. For the preparation of ammonia, much CH<sub>4</sub> is necessary (ref 50-55).

CO<sub>2</sub> produced at developed countries is around 10 billion tone. And around 10x 1/25 = 4 hundred million tone NO<sub>x</sub> is produced. To eliminate this NO (90% of NO<sub>x</sub> is NO), 226 million tone ammonia NH<sub>3</sub> is used. Amount of NO<sub>x</sub> is so much . Elimination of NO<sub>x</sub> use much ammonia and natural gas. These decision give great damage for agriculture and fish industry , GDP and protection of global warming.

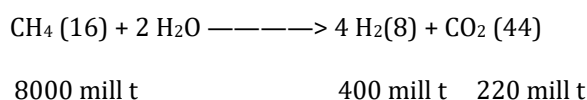
NO<sub>x</sub> is eliminated by ammonia. Ammonia is produced by the reaction of nitrogen and hydrogen. Hydrogen is produced by the reaction of methane with water.



To make 226.2 mills NH<sub>3</sub>, 400 mill t H<sub>2</sub> is used.



To make 400 mill tone H<sub>2</sub>, 80000 mill t CH<sub>4</sub> is used. And 220 mill t CO<sub>2</sub> is produced.



Government of developed country asked the addition of ammonia to the exit gas of factory by the ratio of 400 mill tone NO<sub>x</sub> to 226.7 mill tone ammonia If factory do not follow this rule, they cannot operate the factory Amount of NO<sub>x</sub> and ammonia is huge . Japan is keeping this arrangement most honestly. Then NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> elimination country use NO<sub>x</sub> as fertilizer and getting much food and fixing all CO<sub>2</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> USA 10 c/kWh, Japan 24 c/kWh,Germany 33 c/kWh,UK 15.4 c/IWh,Italy 28 c/kWh.

If developed country stop the addition of ammonia to the exit gas, Consumption of 8000 million tone CH<sub>4</sub> can be saved. And emission of 220 million tone CO<sub>2</sub> can be saved. And 400 mill t x 25 = 10 billion t CO<sub>2</sub> can be fixed. Accordingly 220 mill t + 10 bill t = 10.22 billion tone CO<sub>2</sub> can be fixed. CO<sub>2</sub> em addition of developed countries is 10 billion tone.GWPR (CO<sub>2</sub>em)/ (CO<sub>2</sub>fix) = 1.

Therefore, CO<sub>2</sub> increase is zero. 10.22 billion Tone CO<sub>2</sub> produce plant like wheat. CO<sub>2</sub> produce plant 2/3 30(1/6 of molecular weight of C<sub>6</sub> H<sub>2</sub>O O<sub>6</sub>) /44 Molecular weight of CO<sub>2</sub>) weight of his weight. Wheat contain 2/3 straw of his



CO<sub>2</sub>em (CO<sub>2</sub>emission), NO<sub>x</sub> (NO<sub>x</sub> production), NO<sub>x</sub>c (NO<sub>x</sub> concentration at exit gas), Dump (Wastewater dumping), Fixable CO<sub>2</sub>, GWPR (global warming protection ratio),GDP (GDP ratio 2021/1991) of 13 countries are shown in Table 1

**Table 1** CO<sub>2</sub> emit, NO<sub>x</sub>,NO<sub>x</sub>con, Dump, FixableCO<sub>2</sub> GWPR,GDP of 13 countries

Country	CO <sub>2</sub> emit	NO <sub>x</sub>	NO <sub>x</sub> con	Wdump	FixablCO <sub>2</sub>	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 NO<sub>x</sub> 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<sub>2</sub> and using ammonia to eliminate NO<sub>x</sub>. CO<sub>2</sub> produced in Japan is 1.25 billion tone. NO<sub>x</sub> 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 NO<sub>x</sub> is not destroyed and CO<sub>2</sub> 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.

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#### 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<sub>2</sub> assimilation and can produce much grain and fish and can get high GDP and growth and can stop global warming.

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#### Compliance with ethical standards

##### Acknowledgments

I wish to acknowledge Dr Ryoichi Itou Head Editor of Rikuryou Science for Calculation of CO<sub>2</sub>, NO<sub>x</sub>, fish, grain production. I acknowledge Late Dr Okazaki Minoru (Head of Research Laboratory, Kurita Industry, He was my most intimate friend since 1947. He developed the methods to make clean water and clean air. He gave me precious informations to write papers. I also acknowledge the editors of New Food Industry [ref 1,6,17,35,42,55], Eur J Exp Biol

[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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