

Stopping of NO_x Elimination is Clever Way to Reduce CO_2 and to Increase Fish Production

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Editorial

Protection of global warming is important subject. Promotion of CO_2 assimilation is the best way to protect global warming. Supply of nutrient nitrogen and phosphorous is most important.

I was born at small town tanokuchi, Kojima, Kurashiki, Japan in 1930. There is small swimming beach named Hikiami swimming beach. When swimming at tide is away, my leg touched sea weed and stone fish. The beach was filled with launched sea weed. Many fishing boats were fishing. About 500 thousand tone fish and 100 billion sheets Nori (sea weed to make norimaki sushi) were produced at Setonland Sea. Petro chemical, iron, electricity plants were build at this district in 1970. Japan government set up very strict laws to eliminate all NO_x in burned gas and N, P in drainage. Then Setonland Sea changed dramatically. No weed grow, no plankton grow and no fish grow. Around 1 billion tone CO_2 fix was lost in Japan.

When we look at Japan sea coastal area, this district is highest snow fall district in the world. Thunder happen very often with snow. Thunder produces 7 kg NO_x at one lightning. This NO_x is dissolved in water to afford many plankton and delicious fish like Yellow tail (Buri), Crabs (Kani). This district is famous as delicious rice Minamiuonuma koshihikari producing district. These facts indicate that NO_x is playing very important role for CO_2 assimilation, plankton production, fish production and protection of global warming.

When we look at fish production of many countries, China produces 79 million tones (top), Indonesia 22. (2), India 10.1 (3), Vietnam 6.27 (4), USA 5.47 (5), Peru 4.92 (6), Japan 4.65 (7), Russia 4.61 (8), Philippines 4.5 (9), Norway 3.82 (10), Bangladesh 3.68 (11), Korea 3.33

(12), Chili 3.19 (13), Myanmar 2.95 (13), Tai 3.59 (14), Malaysia 2.00 (15). Fish production of Japan decreased from 15.5 million tones (top) in 1965 to 4.65 million tone (7th) in 2016.

China, Indonesia, Vietnam increased fish production remarkable. These countries do not do NO_x elimination and drainage treatment. By using N, P as a promoter for CO_2 assimilation, they are producing much fish.

Fish grow eating 10 times plankton. Plankton grows by fixing same weight of CO_2 . Therefore 10 times of CO_2 is fixed in the process of fish production. We can estimate that above mentioned countries fixed 10 times CO_2 of fish production. Japan fixed $15.5 \times 10 = 155$ million tone CO_2 in 1965, but it decreased to $4.65 \times 10 = 46.5$ million tone in 2016. Setonland Sea fixed $0.50 \times 10 = 50$ million tones CO_2 in 1965, but it decreased to 5 million tons in 2016.

In Japan 2 million tones NO_x is produced. This NO_x is eliminated by ammonia, producing 1.76 million tones CO_2 . If we use this NO_x for fixing of CO_2 , we can fix $2 \times 25 = 50$ million tones CO_2 . And $2 \times 10 = 20$ million tone fish production can be obtained.

Fish is good anti aging food. We can recover fish production and keep long life record by stopping NO_x elimination. If NO_x concentration limit of car exhaust gas is raised, fuel efficiency increase and 1 billion CO_2 release will be saved.

Summary

CO_2 assimilation is best method to reduce CO_2 . NO_x is best compound to promote CO_2 assimilation. Stop elimination of NO_x is clever way to reduce CO_2 .

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