REDUCING SHIPPING EMISSIONS IN CHINA

The most harmful pollutants from marine emissions, namely SOx, NOx, and PM, can cause various adverse health effects.

Cardiovascular Disease Heart attack
Carcinogenicity Long-term exposure to PM
Calendar determinants Airborne mater

EVERY YEAR IN CHINA, OUTDOOR AIR POLLUTION INCLUDING SHIPping EMISSIONS LEADS TO 1.2 MILLION PREMATURE DEATHS.

Health concerns caused by shipping in China are not new. In fact, there are estimates of preventable deaths attributable to international shipping in other cities.

7 OF THE WORLD’S 10 BUSIEST CONTAINER PORTS ARE IN CHINA

The high concentration of shipping movements and maritime activities, combined with high population density in these cities, suggest that shipping emissions are causing significant health impacts to residents in these areas.

IN ONE DAY, 1 CONTAINER SHIP IN CHINA EMITS AS MUCH PM:\textsuperscript{2} AS 500,000 EURO N-TRUCKS

Why is it important to reduce shipping emissions in China?

Develop a marine emissions inventory

IN THE NEAR TERM, KEY PORT REFORMS CAN CONSIDER:

Low Sulfur Fuel Switch

Low sulfur fuels and emissions trading systems can be used to reduce fuel consumption and minimize air emissions.

Share Power

The use of less-powerful ships, combined with measures like using wind or less powerful engines, can lead to a reduction in emissions.

LNG

The use of liquefied natural gas (LNG) can significantly reduce emissions per unit of energy, compared to other fuels.

LNG

Vessel Speed Reduction

Slowing down maritime vessels by 5% can decrease fuel consumption and emissions.

IN THE LONG TERM, AN EMISSION CONTROL AREA WILL GREATLY REDUCE EMISSIONS

Emission Control Areas (ECAs) are internationally-repealed treaties with strict limits for ship emissions, ranging from SOx, PM, to NOx, depending on the type of fuel used. Current ECAs cover the Baltic Sea, North Sea, North America, and U.S. Caribbean Sea.

The North America ECA is activated to achieve the following reductions and benefits by 2030:

Compared to predicted trends without ECAs, SOx, NOx, and PM from vessels operating within an ECA are reduced by 99%, 98%, 99%, and 25%, respectively.

Reducing 0.3 g/kWh particulate matter; 0.1 g/kWh emergency aboard, and 5 million cases of acute respiratory symptoms.

For more information, please visit www.nrdc.org

NRDC is an international not-for-profit organization that aims to safeguard the Earth, combating pollution and climate change and working with governments and businesses to support the emission of more than 300 non-CO2 pollutants. NRDC is dedicated to the conservation of the world's oceans, forests, public lands and the environment. NRDC is proud to be a GIANT, Green, Social, Grey, White, Case, Cass, and the 1E of the 50. For more information, please visit www.nrdc.org

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