International Contribution by Providing Environment /Energy Technologies

International Activities to Prevent Global Warming

Using energy conserving technology of the highest international standards, we are involved in the following international actions in the fight against global warming.

● Japan and China held the Japan China Steel Industries Conference on Exchange of Advanced Technologies on Environmental Preservation and Energy Saving. In December 2007, prominent experts on Japanese steel, including JFE Steel, conducted diagnoses regarding environmental preservation and energy saving at three steelworks in China.

● The APP *1 steel task force (chaired in Japan) is promoting CO_2 reduction in seven countries through environmental preservation and energy conservation.

● IISI *2 provides a framework for CO_2 reduction by introducing superior modern operational technology and energy conservation technology in steel industry centers across the world in the short term, and promoting the development of innovative steel production technology in the long term.

Along with other major Japanese steel companies, JFE Steel is asserting to APP and IISI the effectiveness of the Sectoral Approach, a powerful strategy for reducing CO_2 emissions on a global scale from 2013 onwards (Post-Kyoto Protocol).

*1 APP: Asia Pacific Partnership (an Asian-Pacific partnership concerned with clean development and weather) was launched in July 2005 with the participation of Australia, China, India, the Republic of Korea, and the United States. (From October 2007, Canada, the seventh nation, will also take part.) The goal of APP is to take on issues such as climate fluctuation and energy security. It set eight target areas, including steel, and established a task force for each field, composed of members from the public and private sectors. It is currently conducting activities in each field.

*2 IISI: The International Iron & Steel Institute is composed of approximately 180 leading steel manufacturing corporations in territories including Japan, the USA, the EU, Russia, India, Brazil, and Korea. It covers almost all of the world's crude steel production needs. In their October 2007 board meeting, they decided to use the Sectoral Approach internationally.

An energy conservation diagnosis at Taiyuan Iron & Steel in China

APP meeting in Busan, Korea

The Future of Reducing CO_2 through Steel and the Sectoral Approach (see Note below)

Deployment of top world class energy-conserving technology from the Japanese steel industry to steelworks all over the world

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A CO_2 emissions reduction of 300 million tons for worldwide steelworks is possible (calculated by JISF and the Research Institute of Innovative Technology for the Earth)

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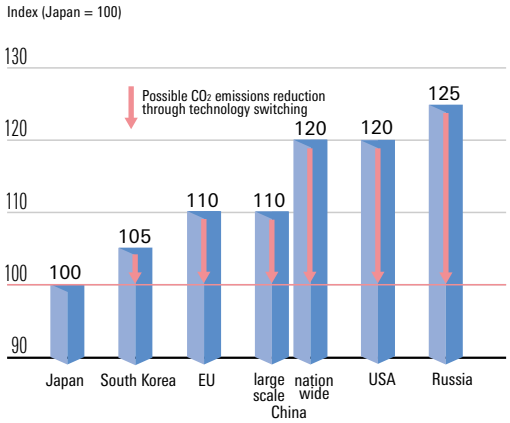
CO_2 reduction from advanced technology research and development in the Japanese steel industry

Note : The Sectoral Approach is a CO_2 reduction method that applies efficiency indices (example: unit CO_2 per ton of crude steel) across the entire world. The indices are categorized by each sector, such as steel or electrical power. Because the Approach is based on efficiency indices, it is easy for developing countries such as China and India to participate. It is a reliable method of reducing CO_2 backed by technology.

International Comparison of the Unit Energy Consumption of Integrated Steelworks



Source: The Japan Iron and Steel Federation

Projects outside Japan

Based on the environmental preservation, energy conservation, and CO_2 reduction technology achieved by JFE through ongoing technological development, we are conducting numerous projects to fight global warming and make economical advancement compatible with environmental preservation in developing countries. Also, we are contributing to the international stage through technological conversions.

World Map of International Cooperation Projects by the JFE Group