

Greenhouse Gas Inventory & Research Center

| Greenhouse Gas Inventory & Research Center of Korea |



Designed by arvit (T.82-2-503-3223 / www.arvit.kr)



163 Sinmunno 1-ga, Jongno-gu, Gwangwhamun Officia Building 5F #501, Seoul, Republic of Korea
Tel 82.2.6943.1310~3 Fax 82.2.6943.1331
<http://www.gir.go.kr>

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I Introduction I

We have made much progress since the original announcement of Korea's new vision of "Low Carbon, Green Growth" at the 60th anniversary of the founding of the Republic on August 15, 2008. The national greenhouse gas midterm reduction target was introduced on November 2009, and the "Framework Act on Low Carbon, Green Growth" was enacted in April 2010.

In the midst of international attention on Korea's Green Growth progress, the Greenhouse Gas Inventory & Research Center of Korea (GIR) was launched on June 15, 2010, on the legal grounds of the "Framework Act on Green Growth", in order to act as a greenhouse gas inventory hub and greenhouse gas reduction research think tank.

GIR operates on the following principles :

- First, securing top experts on staff, and providing opportunities for continuous training and advancement;
- Second, balancing interests of multiple stakeholders, and committing to keep a neutral and objective stance;
- Third, systematizing the cooperation among relevant institutions with greenhouse gas-related research and information, and building a diverse network of domestic and foreign stakeholders.

Organization

A national, comprehensive GHG information center,
and central hub for GHG reduction analysis-evaluation

※ Legal affiliation: under the Ministry of the Environment
(Enforcement Decree: Article 36)

Head of Center

1 Planning & Administration Team

2 Inventory Management Team

National GHG Inventory

Managing Source-specific GHG Inventory

3 GHG Mitigation Research Team

Goal Setting and Analysis for National and Sectoral Target

Global Cooperation including Support for Developing Countries

Industry/
Development | Buildings | Transportation | Waste | Agro-
livestock | Forestry



To Act as a 'Low Carbon Green Growth' focused Global GHG Reduction Think-tank

Goal

1 Information Hub

GHG information management integration and efficiency

2 Accelerating Green Growth

Promoting 'Low Carbon Green Growth' through real GHG reductions

3 Global Networking and Outreach

Establish global cooperation to address climate change issues

Five Priority Activities

Operate a top tier GHG information center

Support for national and sectoral GHG reductions

Expand international cooperation and spread Green Growth paradigm

Offer support for GHG and energy target management

Research worldwide GHG reduction potential



We provide systematic support for setting national and sectoral greenhouse gas reduction targets

Reduction potential analysis

- Objective, scientific reduction potential analysis using a wide range of analysis models
- Improve analysis models and future emission projections, taking into account changes in industrial and economic outlooks and energy prices
- Closely analyze the ripple effects of reductions on industries and the macroeconomy in order to minimize economic impacts and prepare policies to assist vulnerable businesses

※ (BAU/reduction potential analysis) LEAP, MESSAGE, AIM, econometric models, etc.
(macroeconomic impact analysis) CGE models, etc.

Feasibility study of potential measures

- Review the applicability of and barriers to reduction methods through case studies on key businesses
- Operate consultative groups for different business areas, hold reduction technology expert forums, etc.

Propose phased (5 year-term) reduction goals for each sector, in accordance to national reduction targets

Recommend policy alternatives and perform regular performance management

- Establish a comprehensive greenhouse gas reduction master plan (every 5 years) proposing effective policy alternatives to achieve reduction goals
- Examine the effects of key measures, such as government policies, technology development and target management systems-identifying areas for improvement





We will operate a world-class greenhouse gas inventory management system



Ensure statistical reliability and objectivity by establishing a comprehensive national greenhouse gas inventory system

- Operate a national greenhouse gas inventory management council--review and finalize national statistics and emission factors
- Publish 'National Greenhouse Gas Measurement/Reporting/Verification Guidelines', and 'National and Corporate Greenhouse Gas Emission Factor Development/Verification Guidelines'
- Verify and announce country- and facility-specific emission factors
 - ※ Prepare a mid- to long-term country-specific emission factor development plan (all government departments)

Prepare a National Inventory Report (NIR)

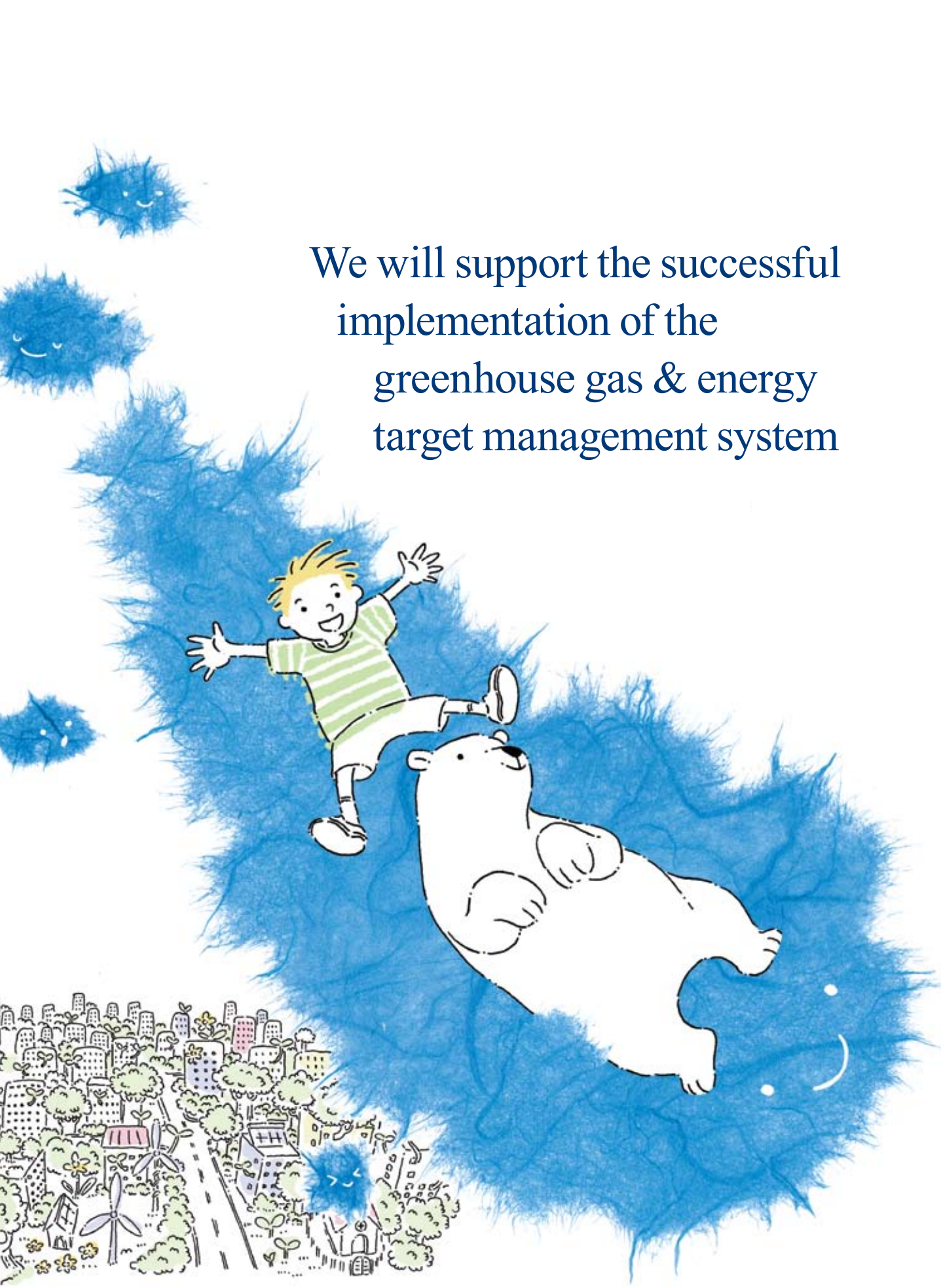
- Collect and verify sectoral greenhouse gas statistics, centrally at GIR (every June), then present a National Inventory Report (every December)

Establish a national greenhouse gas statistics database

- Establish a database for the systematic management of national and corporate greenhouse gas emission factors and national statistics

Establish a global cooperation system

- Actively participate in UNFCCC national inventory expert seminars and workshops
- Share inventory report preparation experiences with leading nations and international organizations
 - ※ Operate a training and selection process for national greenhouse gas inventory reviewers with the UNFCCC (October 2010)
 - ※ Korea-Japan national greenhouse gas Inventory mutual learning seminar

A stylized illustration featuring a boy with blonde hair, wearing a green and white striped shirt and white shorts, jumping joyfully. Below him, a white polar bear is also jumping. They are positioned above a city skyline with various buildings and greenery. The background is a large, textured blue cloud-like shape. There are several small, fluffy blue cloud-like shapes scattered around the main illustration.

We will support the successful implementation of the greenhouse gas & energy target management system

Establish a comprehensive national greenhouse gas inventory system (integrated electronic registry)

- Establish a systematic inventory system which supports the implementation of the target management system
 - ※ Establish a 'single system' in cooperation with relevant government departments and ministries
 - ※ Develop a platform for the comprehensive sharing and management of greenhouse gas information
- Submittal of goal management plans, performance results, and detailed statements by businesses and public institutions (controlled entities) to GIR
- Disclose portfolios and provide relevant agencies (Financial Services Commission, Korea Exchange, etc.) with statement details
 - ※ Form and operate a 7-person 'Portfolio Public Review Committee' to evaluate portfolios/statements ('Enforcement Decree of the Framework Act on Low Carbon, Green Growth', Article 35, Section 5)

Support for comprehensive goal management guideline preparation

- Research and technical support for setting reduction targets and measuring/reporting/verifying (MRV) emissions
- Review and revise guideline feasibility through business case studies (inventory verification/survey)

Set sectoral reduction targets

- Support reduction goal-setting for businesses by setting sectoral reduction targets

Regular performance evaluation of goal management system

- Regularly review goal management system progress and performance
- Apply adjustments to national/sectoral reduction targets and suggest improvements
 - Encourage continuous system improvements and revision through feedback

The greenhouse gas & energy target management system sets reduction goals and evaluates the performance of the major greenhouse gas emitters and public agencies mandated to report emissions ('Framework Act on Low Carbon, Green Growth')



We will share our
expertise in Green Growth
with the rest of the world

Enhance greenhouse gas reduction models and methodologies

- Develop an internationally-accepted reduction analysis model for developing countries that is sensitive to the countries' economic development and industrial structure
- Support the establishment of a balanced strategy for achieving greenhouse gas reduction and economic growth
 - ※ Work together with the Global Green Growth Institute (GGGI) to create greenhouse gas reduction strategies targeted in specific countries
 - Support GGGI activities with knowledge-based research

Strengthen global cooperation among experts

- Build collaboration among experts in developed and developing nations to derive context-specific reduction analyses for developing countries
 - ※ Create and operate an international experts' forum on greenhouse gas reduction models for developing countries
- Establish bilateral programs in the form of scholar exchanges and joint research (through MOUs)

Develop a global green growth network (capacity building)

- Operate an expert training program for developing countries
- Greenhouse gas database-sharing with major countries



Pursuing “Low Carbon, Green Growth” Together

Greenhouse Gas Inventory &
Research Center of Korea
 (“Low Carbon, Green Growth”
Global Greenhouse Gas Reduction Think Tank)

