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I . Background

The 2nd biggest National energy consumer, the biggest growth in GHG emissions

- Need to reduce the figures to meet the greenhouse gas reduction target
 - Domestic energy consumption: industries(57%), transport(21%), households and retail stores(20%)
 - Greenhouse gas emissions of the transport sector
 : an average of 5% growth annually (1990~2007)

Korea's diverse efforts, somewhat insufficient

- Enactment of 'Sustainable Transport and Logistics Development Act' (June 2009)
- But Korea's transport system mainly consists of roads and cars, which emit a lot of greenhouse gas emissions.



Ⅱ. Current Status of Korea's Transport System

Less energy-efficient transport system based on roads and cars

- Road transport carries 82 % and 73 % of passenger and freight traffic
- Road transport consumes11 times more energy than railway

Continued rise of the number of cars that emit most of the GHG emissions

- Cars account for 94 % of carbon emissions of the transport sector
- Number of cars is expected to rise continuously ('09) 17.3 million ⇒ ('20) 21.9 million

Insufficient Investment Modal Split of Public Transport on the Decrease

 Roads and railway account for 50 % and 23 % of investment in the transport sector over the past 5 years.

Paradigm Shift to Green Transport

Energy-intensive transport system based on roads and cars



 Human-friendly green transport system based on railway, ships and green cars

Quantitative expansion
 Focused on the expansion
 of facilities



 Improvement of connection between modes of transport, operational efficiency (Intermodalism)

Investment Strategy

- Increasing railway investment significantly
- Restricting new road investment and focusing on improving operational efficiency
- Reflecting green values on project feasibility studies

Ⅲ. Green Transport Strategy

Vision

Realization of human - friendly, low - carbon, green transport focused on railway, ships and green cars

Goal

Reduction of greenhouse gas emissions in the transport sector By 34.3 % from the BAU by 2020

BAU: Business as Usual

Five Major tasks

- 1. Traffic demand management policy
- 2. Promotion of Eco-Bike and walking
- 3. More safe and fast mass transit over cars
- 4. Building rail and shipping oriented green logistics
- 5. Development and promotion of green transport technology

1. Traffic Demand Management Policy

Enhance Traffic Demand Management

Expand Congestion charge

Introduce Car-sharing promote Eco-driving IT-based Remote Working

Establish Low-carbon Smart Transport System

- Use ITS for road
- Encourage hi-pass use
- Establish Intergrated transport Information center

Create Green Transport Zone

Green Transport Zone

Traffic Volume Cap system by region

Public transportfocused urban development

2. Promotion of Eco-Bike and Walking

Strengthen Mass Transit and Bike / Build a safe bike path network

- Gradual Expansion of taking Bicycle on Train and Bus
- Build more bike parking lots on train and bus stations
- Build Daily safe bike path network

Improve pedestrian-oriented walking environment

- Gradually expand 「Pedestrian Priority Zones 」,
 「 mass transit only districts」
- Designate "Day of Pedestrians" to promote pedestrian oriented transport culture

3. More safe and fast mass transit over cars

Secure bus service competitiveness

- Spread the use of M-Bus into Seoul Metropolitan Area (SMA)
- Build a bus transfer system in service areas on expressways
- Expand the use of BRT into the whole SMA and major cities

Expand urban and metropolitan rail service

Expand a rail network in major cities now 830km to 1,054km by 2012

Create a national high speed rail network

- Early complete the construction of the 2nd phase of Honam High Speed Railway(HSR) by 2014
- Speed up existing railways or railways under construction

4. Building rail and shipping oriented green logistics system

Modal Shift toward Green Transport

 Provide subsidy to rail and coastal shipping transferred from road transport



Promote coastal shipping

- Provide financing with guarantee from Korea Credit Guarantee Fund in coastal ship building
- Constantly reduce rent fee of port facilities

Establish low carbon green logistics system

- Reorganize the sectoral logistics system for Door-to-Door
- Identify and spread exemplary cases of CO₂ reduction with Green Logistics Certification System
- Establish low carbon green ports

5. Development and Promotion of Green Transport Technology

Development and promotion of green cars

- Support development of core technologies such as batteries
- Support standardization excellent technologies and parts
- Build more charging facilities, complement safety standards
- Purchasing incentives such as tax exemption will be provided to ordinary consumers

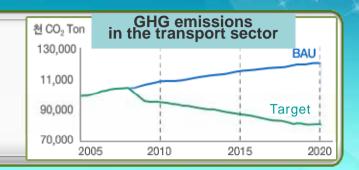
Develop cutting-edge green transport mode

 Develop next generation high speed rail development, urban type maglev train and Bimodal Tram

IV. Expected Effects (as of 2020)

CO₂ reduction

- 20~24% reduction compared to 2005
- 34.3% reduction against BAU by 2020



Energy import substitution

around \$ 6 billion annually



Social cost reduction

around \$ 22 billion annually



Job creation

• around 2.3 million (2010~2020)



Thank You

Transport will lead low carbon green growth

