

해외출장복명서

기 간: 2015. 9. 20~2015. 9. 23

출장지: 몽골(울란바타르)

출장자: 왕광익

I. 출장개요

1. 출 장 지: 몽골 울란바타르

2. 출장기간: 2015. 9. 20 ~ 9. 23

3. 출 장 자

소속	직급	성명	비고
국토연구원	연구위원	왕광익	

4. 출장목적

□ 국제개발기구인 아시아재단(The Asia Foundation)에서 도시 녹색성장을 주제로 한 동북아시아 시장(市長) 회의 개최에 따라 주요도시 시장단들과 각 국의 녹색성장에 대한 발표 요청에 따라 한국(서울)의 녹색성장에 대한 발표자로 참석

II. 출장일정

날짜	출발지	도착지	방문기관/장소	주요 수행업무	관계자
9.20 (일)	인천	울란바타르 (몽골)	-	(19:55~23:30) 인천 출발 울란바타르 도착	항공편: KE0867
9.21 (월)	울란바타르 (몽골)	-	울란바타르시	(오전) - OPENING SESSION · Opening Remarks · Keynote speech - SESSION 1: Urban Green Growth Trends & Issues For Northeast Asia · Presentation by Dr. Kwangik Wang · City Presentations and Discussion (오후) - SESSION 2: Green Infrastructure Transportation & Living · Green Infrastructure & Green Transportation · Green Living and Education · City Presentations and Discussion	Honorable Bat-Uul Erdene (Capital City Governor and Mayor of Ulaanbaatar) H.E. Dr. Oyun Sanjaasuren (President of the United Nations Environment Assembly) Park Won-soon (Mayor of Seoul Korea) 외 동북아시아 시장단
9.22 (화)	울란바타르 (몽골)	-	울란바타르시	(오전) - Special breakfast session on Urban Green Growth Financing Mechanisms: Opportunities and Challenges - SESSION 3: Green Technologies & Investment · Renewable Energy in Urban Spaces · Energy Efficient Construction and Housing in Cities · Sustainable Water Management in Cities (오후) - VISIT to Green Technology Fair - Dinner Reception	Ms. Ts Oyungerel (MP and Former Minister) 외 동북아시아 시장단
9.23 (수)	울란바타르 (몽골)	인천	-	(09:45~12:50) 울란바타르 출발 인천 도착	항공편: OM301

III. 수행사항

1. Urban Green Growth Trends & Issues For Northeast Asia 발제 및 토론

□ 일시 및 장소: 2015. 9. 21(월) ~ 22(화)

□ 참석자: Honorable Bat-Uul Erdene시장, 박원순 서울시장 외 관계자
왕광익 연구위원

□ 주요 논의내용

○ 발제 및 토론 참석

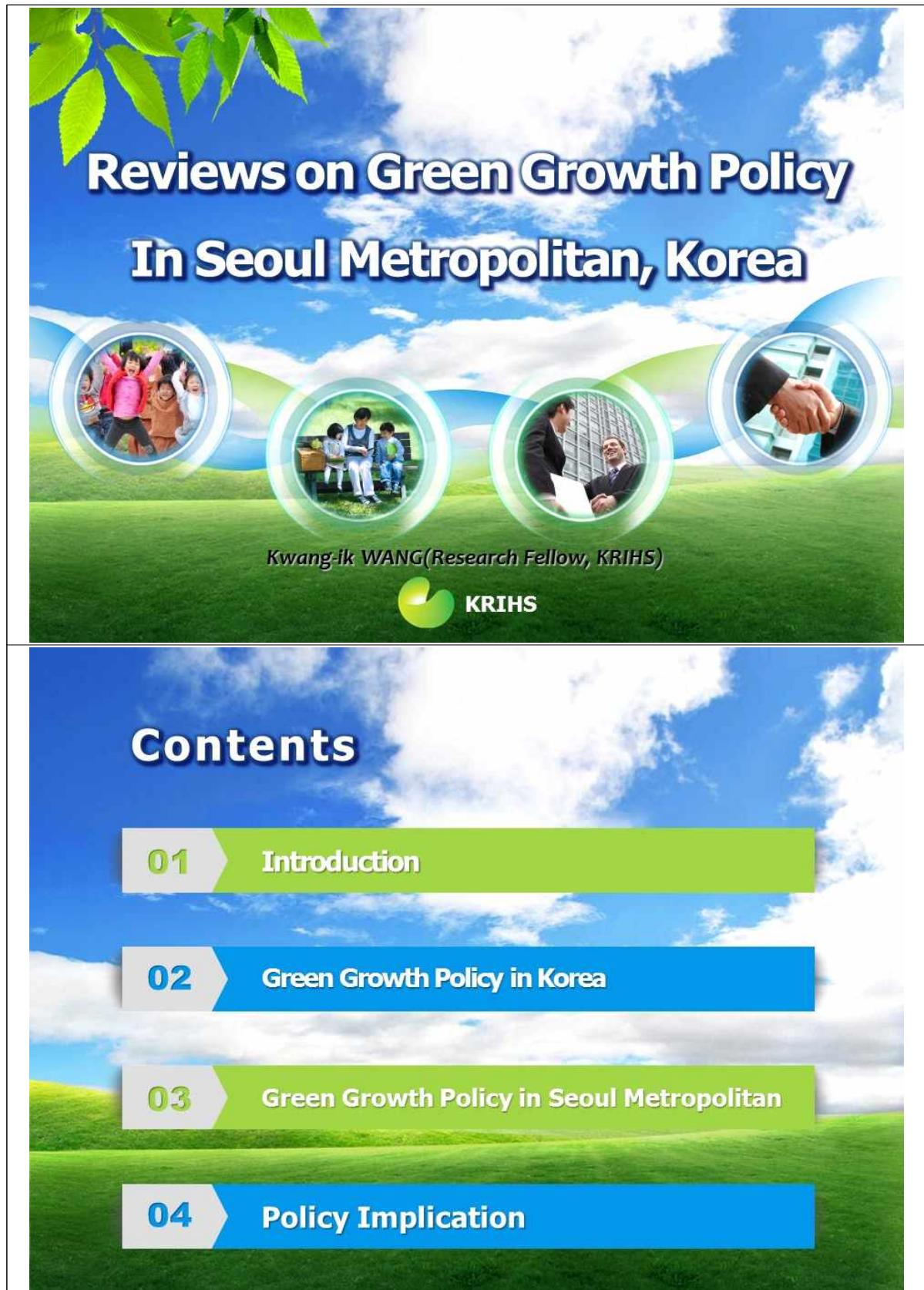
- SESSION 1의 Urban Green Growth Trends & Issues For Northeast Asia와 관련하여 “서울시의 녹색성장 정책”에 대한 발제
- 중국, 몽골측 전문가의 발제, ICLEI, NEASPEC, UNESCAP 등의 발제와 이에 대한 동북아시아 시장단과의 토론
- 울란바타르 시장은 한국의 서울시와 글로벌 녹색성장과 관련하여 협력하길 희망하였으며, 개발시 주거환경 조성에 대한 노하우를 궁금해 하고, 저소득층 지원에 대해서도 질문함

○ 도시 녹색성장에 대한 각 분야별 토론

- Green Infrastructure, Green Transportation, Green Living and Education, Green Technologies & Investment 등에 대한 국제기구 및 전문가들의 발표와 이에 대한 토론
- 스마트도시, 재난 안전관리, 도시계획 등 다양한 분야에서 정책 교류를 희망하며, 지식공유도 요청함



2. 발제자료





01

Introduction



Introduction

Cities of Green Growth

- ❖ **A big challenge to response and share the crisis of climate change related with green growth at not only nations, also cities levels**
- ❖ **Corresponding countermeasures to climate change in cities are significant**

Green growth changes of Seoul

- ❖ **Enacting the 'Low-carbon green growth in Seoul Metropolitan' in July 2011**
- ❖ **Establishing the comprehensive plans 'One less nuclear power plant' in April 2012, to respond to climate change preemptively**
- ❖ **Suggesting the reduction 20 million ton (40%) of greenhouse gas emission until 2030, promising the "commitment of Seoul" to respond the climate change**

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Green Growth Policy in Korea

Targets for reduction greenhouse gas of Korea

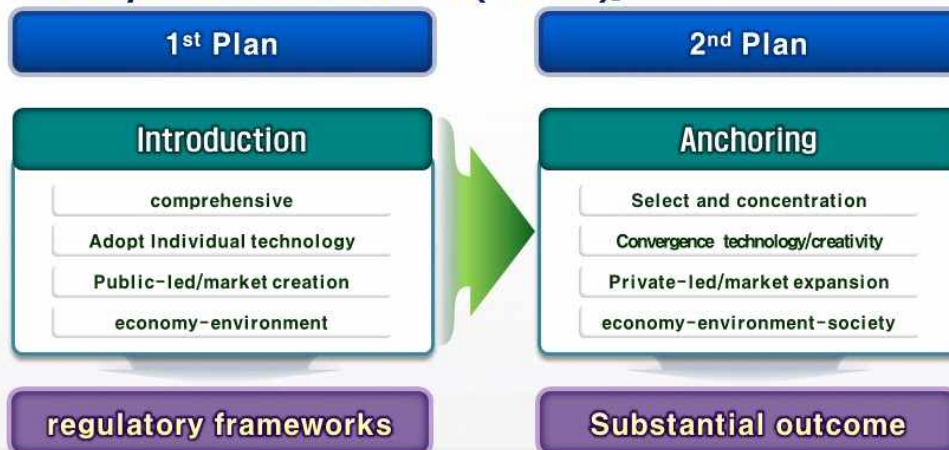
- ❖ **Targets to 2020: Suggesting the mid-term goal in 2009 to reduce 30% of greenhouse gas compared to the estimated emission, Business As Usual (BAU)**
- ❖ **Targets to 2030: Suggesting the regulation upward in June 2015, that reducing the 37% of greenhouse emission compared to the estimated BAU**



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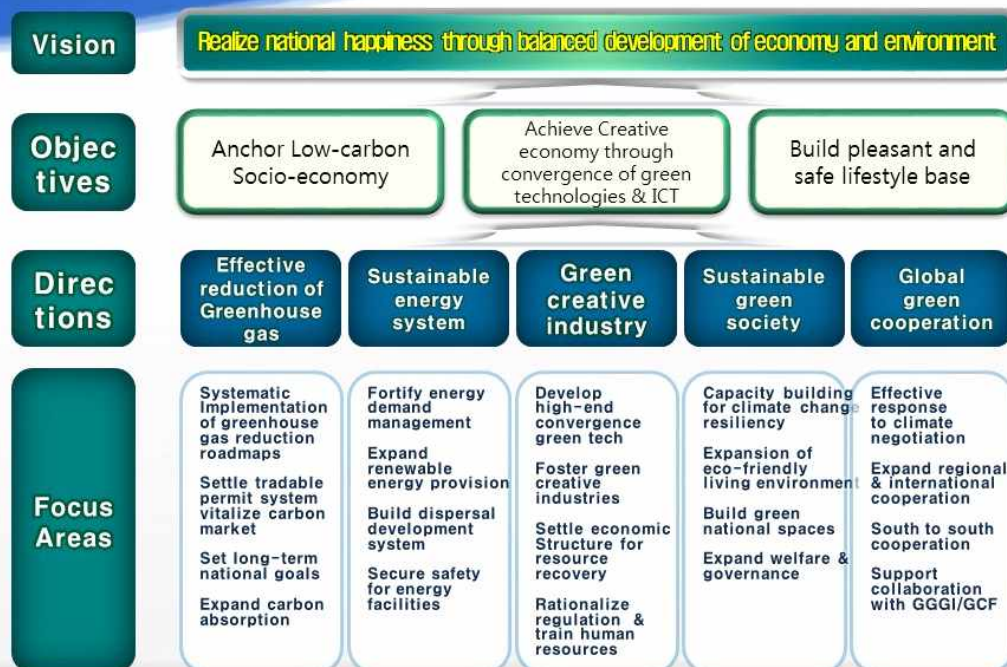
Five Year Plan for Green Growth

- ❖ July 2009 : prepared 「National Strategy for Green Growth」 & 「1st 5 year Green Growth Plan('09~'13)」
- ❖ June 2014 : termination of 1st Plan & launching of 「2nd 5 year Green Growth Plan ('14~'18)」



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Five Year Plan for Green Growth(2nd)



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03 Green Growth Policy in Seoul Metropolitan



2030 Green Design Seoul

Clean and attractive global city, Seoul

Vision	Realizing a green competitive city		
Value	Humanistic, Green Design		
Goals	Climate adaptation	Green growth	High temperature adaptation
Projects	<ul style="list-style-type: none"> Establishing the climate adaptable energy system Architecture and urban planning energy rationalization Green revolution of Traffic Replacing the light source to LED Resource total circulation use Establishing low-carbon society 	<ul style="list-style-type: none"> Promoting 10 green technologies Establishing the base for GT R&D Supporting the GT R&D companies Adequate test-bed and market Promoting GT experts Greening the large retailers and green office Supporting newgrowth green industries Establishing the green demand that leading the green market 	<ul style="list-style-type: none"> Strengthening forecasting and responding system Establishing the climate adaptation system Constructing the social cooperative networks Promoting climate adaptability Establishing the climate adaptive urban management infrastructures Supporting the high-technologies Main managements for 5 climate change vulnerable fields
Task	Establishing the legislative, systematic and cooperative production networks requirements		

2030 Green Design sub-Projects

Climate adaptation

- ✓ Expanding 20% of renewable energy supply (Energy consumption ⇒ Energy productive city)
- ✓ Promoting the energy efficiency for existing and new buildings
- ✓ Establishing the high energy management system operated by IT
- ✓ Replacing the light source to LED
- ✓ Traffic green revolution including the public cars and bus
- ✓ Realizing the Zero-Waste city
- ✓ Reducing the energy consumption by expanding the green spaces
- ✓ Educating the low-carbon society campaigns

Green Growth

- ✓ Promoting the green technologies
- ✓ Developing and supporting the green technologies R&D
- ✓ Establishing the green technology R&D networks in Magok district
- ✓ Commercializing green technology by supporting the test-bed
- ✓ Stabilizing the domestic market by purchasing the road map
- ✓ Protecting and supporting the green technology enterprises
- ✓ Promoting the main industries greening

High temperature adaptation

- ✓ Risk management for establishing the protection and adaptation
- ✓ Establishing the climate friendly urban management infrastructures
- ✓ Strengthening the adaptation capacity through the high technology development supply
- ✓ Core management for 5 vulnerable fields to climate change – applying the standard for high temperature adaptation

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Commitment of Seoul to respond the climate change

Vision

Realizing the resilient Low-carbon City

Objectives

Reducing the 4,500 thousand TOE energy consumption and 15 million ton of greenhouse gas by saving the energy

Supply the 10% of new renewable energy in total energy consumption

Maintaining the ultrafine dust (PM2.5) concentration to 15 µg/m³

Establishing the safe and attractive public transportation infrastructures for comprehensive management

Increasing the living waste recycling rate to 75%

Increasing the recycling rainwater amount to 1 million ton

Expanding the green spaces more than 30% compared to 2015

Expanding the urban agricultural space 10 times compared to 2012

Reducing the premature death rate to 40% compared to 2013

Reducing the areas prone to floods .

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Commitment of Seoul to respond the climate change; 10 sub-projects

Fields	Vision	Projects
Energy	Realizing the high efficiency Low-carbon city	<ol style="list-style-type: none"> 1. Saving energy and use efficiently 2. Producing clean and safe energy 3. Sharing the energy and welfare 4. Promoting the green industries and creating job vacancy
Atmosphere	Establishing the clean air to breath safely	<ol style="list-style-type: none"> 1. Establishing the eco-friendly driving culture 2. Promoting the low-carbon transportation development and supply 3. Establishing the cooperative systems for responding climate change 4. Establishing the safe environment from the ultrafine dust
Traffic	Contributing to realization Low-carbon city with green transportation	<ol style="list-style-type: none"> 1. Establishing the traffic cultures for pedestrians and cyclists 2. Improving the public transportation modal share rate 3. Avoiding the private car use 4. Improving the energy efficiency with low carbon green transportation
Resource Recycling	Establishing the Zero-waste city	<ol style="list-style-type: none"> 1. Reducing the food waste 2. Reuse 3. Recovery the resource from the waste 4. Purchasing the green products

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Commitment of Seoul to respond the climate change; 10 sub-projects

Fields	Vision	Projects
Water	Improving the internal water supply by strengthening water cycles	<ol style="list-style-type: none"> 1. Reducing the water waste 2. Reusing the rainwater 3. Drinking tap water 4. Reusing the water
Ecology	Establishing the green cities living with various creatures	<ol style="list-style-type: none"> 1. Decreasing the average temperatures by establishing the green spaces 2. Creating the forest recreations by managing the mountains in Seoul 3. Establishing the biological diversity environment 4. Establishing the culture to take care of the nature
Urban Agriculture	Reducing the energy with urban agricultures	<ol style="list-style-type: none"> 1. Increasing the urban agricultural spaces 2. Reducing the retails by vitalizing the direct agricultural market 3. Increasing the urban farmers
Health	Establishing the health cities by raising the adapting capacity and preventing from the dangerous factor in health	<ol style="list-style-type: none"> 1. Protecting the vulnerable groups from the heat wave exposure 2. Protecting the public health from the infectious disease 3. Reducing the exposure from the air pollution

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Commitment of Seoul to respond the climate change; 10 sub-projects

Fields	Vision	Projects
Safety	Keeping safety by increasing the capacity from the meteorological disaster	<ol style="list-style-type: none"> 1. Intensifying the citizen reaction capability for the disasters 2. Preventing from the snow 3. Reducing the risk from the heavy rain 4. Supporting the prompt recovery from the disasters
Urban Planning	Establishing a resilient city from the climate change	<ol style="list-style-type: none"> 1. Establishing the urban planning to respond the climate change 2. Promoting the urban redevelopment citizen-oriented

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04 Policy Implication

Policy Implication

Establishing the innovative plans to organize the connective systems

Comprehensive plans are needed to reflect the various factors and respond to the climate change

Preparing the paradigm conversion to urban restoration

Decreasing, aging population and declined business could be considered to offer the green city growth guidelines in existing cities to specialize creating green city

Specializing the space planning for local energy

Reviewing the most effective ways to save the energy by understanding the consumption structures of energy

Enhancing the governance systems

Suggesting the guidelines to give conflict solutions by forming the consultative groups. Leading the local residents' recognition to improve their leaderships

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