Ministry of Environment Greenhouse Gas Inventory and Research Center of Korea



Low Emission Development to Achieve CARBON NEUTRALITY

:12th International Greenhouse Gas Conference

AND SDGs

PROGRAM BOOK







PROGRAM

14:00 – 14:27 OPENING SESSION

Opening Remarks	Heung-Won Seo President of Greenhouse Gas Inventory and Research Center (GIR)
Welcoming Remarks	Han Jeoung Ae Minister of Environment, Republic of Korea Park Nam-choon Mayor of Incheon Metropolitan City, Republic of Korea
Congratulatory Remarks	Liu Zhenmin Under-Secretary-General for Economic and Social Affairs of the United Nations (UN DESA) Yeonseob Ha Executive Vice President of International Campus, Yonsei University

• 14:27 – 15:05 LAUNCHING THE DECADE OF ACTION IN KOREA & THE 2ND PHASE OF UNOSD

Video	Decade of Action Video
Presentation on 2nd phase of UNOSD	Chun Kyoo Park Head, United Nations Office for Sustainable Development (UNOSD)
Message from Stakeholders	Sun-Jin Yun Chair, Sustainable Development Committee, Republic of Korea
	Kim Hong-jang Chair, Korea Local Governments Alliance for Sustainable Development
	Kyung-Ho Lee Chair, Korea Business Council for Sustainable Development
	Yelin Heo Chair, Youth-Level Political Forum Korea (YLPF Korea)
Launching Ceremony	Decade of Action in Korea and 2nd phase of UNOSD Launching Ceremony

• 15:05 – 15:20 PHOTO SESSION & BREAK

15:20 - 16:40

SESSION I: SYNERGIES IN JOINT IMPLEMENTATION OF CLIMATE ACTION AND THE SDGS FOR RECOVERY

Moderator	Ganbold Baasanjav Head, Subregional Office for East and North-East Asia, UN Economi and Social Commission for Asia and the Pacific (UN ESCAP)
Global Trends Financing the Climate Ambition	Oyun Sanjaasuren Director of External Affairs, Green Climate Fund (GCF)
Country Experience 1 Climate diplomacy– the Danish case	Tomas Anker Christensen Climate Ambassador of Denmark
Country Experience 2 Intervention with insights on sustainable development, climate policies and recovery plans from Germany	Marc-Oliver Pahl Secretary General, German Council for Sustainable Development
Country Experience 3 Korean Green New Deal and K-SDGs	Eunhae Jeong Director of Green Transition, Ministry of Environment of the Republic of Korea
Discussion Session	Speakers of Session I

16:40 – 18:20 SESSION II: PREPARING FOR CARBON NEUTRALITY BY 2050

Global Trends The role of international markets in reaching net zero	Stefano De Clara International Policy Director, International Emissions Trading Association (IETA)
Country Experience 1 UK Net Zero Goals and Strategy for 2050	Alistair Ritchie Director of Asia-Pacific Sustainability, Asia Society Policy Institute (ASPI)
Country Experience 2 Carbon Neutrality Reinforce Green Low Carbon Transition in China	Min Li China Representative, International Emissions Trading Association (IETA)
Country Experience 3 Carbon Neutrality by 2050 in Korea	Seung Jick Yoo Professor, Sookmyung Women's University
Discussion Session	Moderator William Acworth Head of Secretariat, International Carbon Action Partnership (ICAP)
	Panelist Yeo Ra Chae Director General, Integrated Assessment of Climate and Air Pollution, Korea Environment Institute (KEI)
	Panelist Ji Hye Jo Director/Senior Research Fellow, Circular Economy Policy, Korea Environment Institute (KEI)







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05





LAUNCHING THE DECADE OF ACTION IN KOREA & THE 2ND PHASE OF UNOSD

Presentation on 2nd phase of UNOSD

Chun Kyoo Park Head, United Nations Office for Sustainable Development (UNOSD)

LAUNCHING THE DECADE OF ACTION IN KOREA & THE 2ND PHASE OF UNOSD

Presentation on 2nd phase of UNOSD



Chun Kyoo Park

Head, United Nations Office for Sustainable Development (UNOSD)



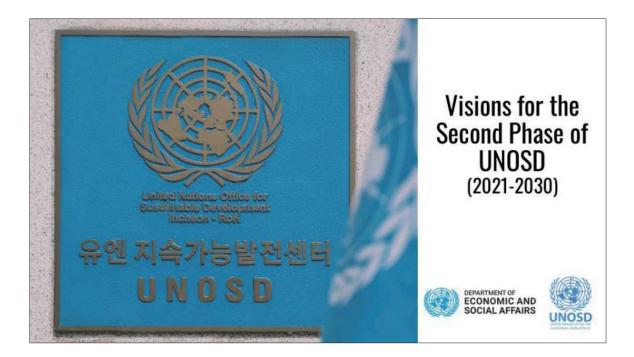
Career History

Mr. Chun Kyoo PARK is the Head of UN Office for Sustainable Development as of 26 October 2020. Before that, he has served at the government for almost 30 years mainly at the Ministry of Environment of the Republic of Korea where he joined in 1991 starting at mid-level management rising to the rank of the Vice Minister of Environment. Throughout the experience, he has built various capacities and broadened the scope of work by engaging in many different areas of sustainable development. Mr. Park's works range from air and water quality management to nature conservation, waste management, chemicals management, sewerage system, etc. Tackling climate change has been his major concern and produced lots of achievements at the ministry including setting up Korean National Mitigation Targets.

Moreover, his career stretches to the international cooperation where he worked as the first secretary of the Republic of Korea Mission to the UN in charge of works related to the UN General Assembly 2nd Committee, and the Commission on Sustainable Development. He has attended various international meetings which include CBD COP13 in Cancun, Mexico as the chair of the COP12 Presidency and the most recently the 4th UN Environment Assembly in 2019 in his capacity as the head of Korean delegation.

He worked closely with UN organizations to support program such as the UNEP's PAGE (Partnership for Action on Green Economy) and the first international workshop for developing country officials on MRV (Measurement, Reporting, and Verification) jointly with UNFCCC and/or EU. He graduated from Yonsei University majoring Public Administration and holds a master's degree in Development Policy and Public Administration at the University of Wisconsin at Madison. He is co-author of three books including "Carbon Market, Are You Ready to Buy or Sell It."

K E Y N O T E



UNOS

Introduction

- The United Nations Office for Sustainable Development (UNOSD) was established in 2011 in Incheon, the Republic of Korea
- UNOSD serves as a technical arm of the Division for Sustainable Development Goals (DSDG) of the United Nations Department of Economic and Social Affairs (UN DESA)
- Established under the framework of a Host Country Agreement (HCA) with the Government of the Republic of Korea, and a Memorandum of Understanding with the Ministry of Environment of the Republic of Korea.

UNOSD Mandate

- Supporting development pillar of the United Nations Secretariat by ensuring international cooperation in the pursuit of sustainable development for all.
- Strengthening the capacity of Member States to undertake integrated sustainability transformation to the 2030 Agenda and the SDGs, and other internationally agreed development goals.
- Assisting developing countries in developing and implementing strategies and policies for sustainable development.



UNOSE

K E Y N O T E

1st Phase (2011-2020)



173 Member States

- 43 in Asia
- 51 in Africa
- 28 in Europe
- 35 in Latin America and Caribbean
- 15 in Oceania
- 89% of Member States
- 81% of SIDS, LDCs, and LLDCs



Second Phase (2021-2030)



UNOSD Mission and Objectives

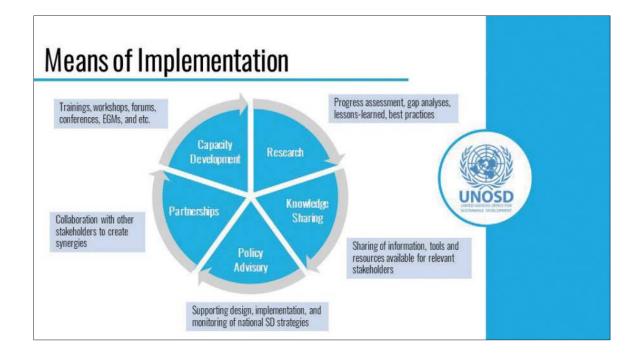
Enhanced Action: To accelerate the progress for the 2030 Agenda and the SDGs in the Decade of Action

Enhanced Knowledge: To disseminate and share best practices, lessons learned, strategies, policies and practical solutions for achieving sustainable development through

Enhanced Capacity: To strengthen the capacity for planning and undertaking integrated sustainability transformation



KEYNOTE



Flagship Activities

Executive Training Course (ETC)

 Targets policymakers at national and subnational levels, and normally uses the thematic focus of the HLPF as the backbone for structuring the training

Sustainable Development Transformation Forum (SDTF)

 Hosts an open debate among global policy communities inviting decisionmakers from both public and private sector as well as other stakeholders to induce and facilitate largescale, collective, and positive transformation towards sustainable development

International Mayors Forum

 Builds capacities of the mayors and leaders of local governments who face challenges in localizing the SDGs in their cities and communities



Youth Engagement

SDGs Youth Summer Camp

- UNOSD reflects the UN commitment to building a connected, sustainable, and transformed future through the youth
- Aims to develop capacities of youth leaders and empower them to think critically and get engaged in implementing the 2030 Agenda and the Sustainable Development Goals
- UNOSD will aim to gather participants from more diverse backgrounds to engage the youth





Policy Advisory Services

- UNOSD will provide tailored advisory services in their specific priorities, needs, and circumstances
- Expand its advisory services to developing countries with priorities given to SIDS, LDCs, and LLDCs
- Identify target countries through needs assessment based on Voluntary National Reviews and UNOSD-led diagnosis
- Collaborate with UN Country Team, UN Resident Coordinators, and UN Regional Commissions



K E Y N O T E

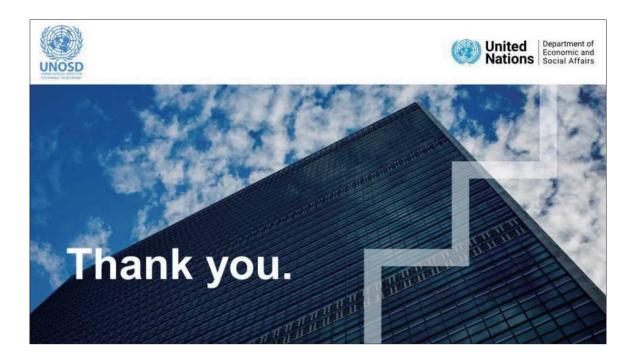
Response to COVID-19 Pandemic

- The COVID-19 reveals and exacerbates the world's vulnerabilities, inequalities and systematic challenges
- Since 2020, UNOSD has been developing online training, forums, and workshops to facilitate timely discussions of building back better and greener towards a post-COVID era
- Thematic areas: green and circular economy, climate action, environmental protection, sustainable production and consumption, partnerships, etc.

Source: https://sustainabledevelopment.un.org/sdgactions













Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

Moderator

Ganbold Baasanjav Head, Subregional Office for East and North-East Asia, UN Economic and Social Commission for Asia and the Pacific (UN ESCAP)

Financing the Climate Ambition
Oyun Sanjaasuren Director of External Affairs, Green Climate Fund (GCF)

<u>Climate diplomacy– the Danish case</u> Tomas Anker Christensen Climate Ambassador of Denmark

Intervention with insights on sustainable development, climate policies and recovery plans from Germany Marc-Oliver Pahl Secretary General, German Council for Sustainable Development

> Korean Green New Deal and K-SDGs Eunhae Jeong Director of Green Transition, Ministry of Environment of the Republic of Korea

> > **Discussion Session**



SESSION 1

Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

MODERATOR



Ganbold Baasanjav

Head, Subregional Office for East and North-East Asia, UN Economic and Social Commission for Asia and the Pacific (UN ESCAP)



Career History

Dr. Ganbold Baasanjav is the Head of United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP) East and North-East Asia Office based in Incheon, Republic of Korea.

Prior to UNESCAP, Dr. Ganbold has worked extensively for the government of Mongolia serving within the country in the Foreign Ministry as well as abroad in a diplomatic capacity. He was most recently the Ambassador-at-large for Sustainable Development at the Ministry of Foreign Affairs of Mongolia (2018-2019). Prior to this, he has served as the Mongolian Ambassador to the Republic of Korea (2013-2018), Director-General of the Asia and the Pacific Department at the Ministry of Foreign Affairs of Mongolian Ambassador to Vietnam (2004-2008). Dr. Ganbold has also served as the State Secretary of the Ministry of Foreign Affairs of Mongolia (2001-2003) and as the Director-General of the Public Affairs Department at the Ministry of External Relations of Mongolia (1998-2000). His earlier career includes overseas diplomatic assignments with the Mongolian Embassy in Pyongyang, DPR of Korea (1989-1993). Dr. Ganbold was also a part-time lecturer and Dean for the Department of International Relations, School of Foreign Service, at the National University of Mongolia (1997-2001).

Dr. Ganbold is fluent in English, Korean and Russian, and earned his BA in International Relations from Moscow State Institute of International Relations (MGIMO), Russia an MA in Political Science from University of Hawaii at Manoa, USA and a PhD in Law from Hankuk University of Foreign Studies, Republic of Korea.

He is married with four children.

SESSION 1

Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

GLOBAL TRENDS

Financing the Climate Ambition



Oyun Sanjaasuren Director of External Affairs, Green Climate Fund



Career History

Dr. Oyun Sanjaasuren is the Director of External Affairs of Green Climate Fund, where she leads the fund's work on resource mobilization, partnerships, communications and advocacy.

Dr. Oyun served as the first President of the United Nations Environment Assembly, the Governing Body of UN Environment (2014-2016), and has been an active advocate for sustainable development, climate change and water security. She served as Chair of the Global Water Partnership and as an Advisory Board member of the Future Earth. One of the leading politicians in Mongolia, she formerly served as a Member of Parliament (1998-2016), as Minister of Environment and Green Development and Minister of Foreign Affairs. She is a founder of the Zorig Foundation, a leading Mongolian NGO that advances democracy, social and human rights and supports youth leadership and education. Oyun has a Ph.D in Earth Sciences from University of Cambridge.

Abstract

We know that the current decade 2020 to 2030 is crucial

A DECADE OF NATURE AND CLIMATE ACTION

→ With the need to Halve emissions by 2030 and halve again the decade after and then reach net-zero by 2050...

➡ And reverse biodiversity loss

These are enormous tasks.

The recent net-zero drive: has been creating true momentum; it's a pivotal time in the fight against climate change. Green resilient recovery is essential if we are to meet the goals of both SDGs and PA. The recovery measures are not sufficiently green and not aligned with SDGs.

South Korea has become a model for developing countries in the way it has rapidly industrialised and built an economy based on fast internet speeds. We applaud Korea's carbon neutrality pledge and the "Korean Green New Deal" – paving the way for the country to become a leader in sustainable economic growth

*UNFCCC NDC synthesis report in March 2021 – indicated that we are nowhere close to where we need to be in order to achieve net-zero by 2050

UNSG calls this year, 2021, to be a LEAP year for building a true global coalition for carbon neutrality. We are seeing both the political will building (with net-zero pledges by China, US, European countries, Japan; RoK and another 120+ countries – equaling now at cca. 70% of the global economy and 65% of total emissions); and we are definitely seeing the public support growing, especially from the new generation. However, all of the pledges must now be translated into roadmaps to reach net-zero; translated into concrete actions – by enhanced commitments in COP26 in Glasgow

The COVID pandemic brought unprecedented humanitarian and financial crisis, has taken more than 3.4 million lives; driven the economy down, millions lost their jobs which led to rising poverty; there is a risk of default in many countries – especially developing countries are hit hardest – already most vulnerable to climate change

At the same time, we know that we have to come out from this pandemic more resilient,

build back better and choose a new path for growth and development; the key message here is getting the recovery right The unprecedented crisis also unleashed unprecedented measures, the resources freed for stimulus packages – in trillions – almost all of it still in G20 countries.

Over USD 14 trillion in announced spending across the world's largest 50 countries in 2020, of which only 13% (1.9t) was directed to long-term 'recovery-type' measures an of that less than 20% (340b) – to green recovery measures (UNEP, University of Oxford, March 2021)¹⁾

The drop in carbon emissions from coronavirus lockdowns in 2020 is expected to have a negligible effect on average global temperature. However, strong green economic recovery measures from the Covid-19 pandemic that invest in low-carbon technologies, practices, and infrastructure and do not bail out carbon-intensive industries could cut warming by 0.3C and put us back on track to avert catastrophic climate change.

We must not repeat the errors of the past. In many countries, austerity measures implemented in response to the 2008 debt crisis have significantly constrained the ability of governments to spend on infrastructure development and maintenance, as well as technology and skills development.

*With the value of climate finance opportunities in developing countries between now and 2030 estimated up to USD 23t vs. USD 18t of negative-yielding debt in OECD countries → increasing the flow of climate finance should be a logical and natural win-win way for both climate action and green recovery measures. This is not happening.

* This is because of perceived risks:

- Green investments tend to have higher upfront capital requirements, longer pay-back periods and can have higher perceived policy, technical and operational investment risks. At GCF we are leveraging our investments to unblock the barriers to transformative climate investments.
- blended climate finance so far has mostly benefited high and middle-income countries, largely bypassing LDCs and SIDs, and has catalysed private investment in mature technologies such as on-grid renewable energy technologies.

The needs for green/sustainable investments are huge, but they can also bring returns - If invested smart and if externalities are taken into consideration. Just increasing the volume of climate finance is not enough: investments required in a different set of assets, and best if these investments create co-benefits for Covid-recovery, including creating jobs. Currently, GCF's portfolio is USD 30B with the fund's investment at 8.3b and the rest is co-investment.

I want to use examples of some of the fund's projects - examples of what we, at GCF, do with our partner countries and partner accredited entities (more than 100 diverse network) - to explain the fund's approach to bring this transformative change.

The key is Innovation:

- in Policy and regulatory transformative planning (integrating policies to achieve the SDGs and the PA that capture multiple wins could reduce total required investment by up to 40%.)
- In institutions (including in capacity strengthening that will support countries craft green, resilient recovery measures and incorporate such measures into NDCs and stimulus packages.)
- Innovation in technology, and
- · Financial innovations, including de-risking investments of private sector is often key

We must green existing investments and also secure the new investments required to deliver green growth. Catalysing private investment to foster a low emission, climate resilient recovery is vital to supplement public resources. But there is also to an array of financing and entrepreneurial barriers to private green investment:

First: we support developing countries to create integrated climate and sustainable development strategies. This fosters the establishment of a conducive policy environment for green, resilient investment.

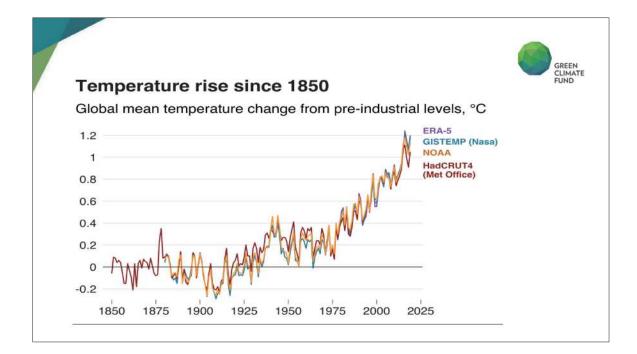
Second: we encourage and pilot innovation. We support innovations in policy, institutions, business, technology and in finance.

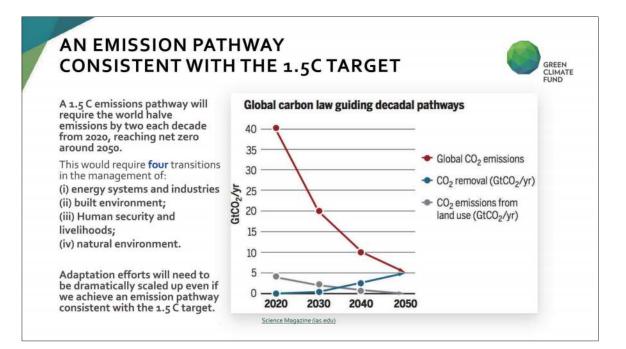
Third: we scale up successful climate investments. We do this through tools like blended finance as well as through dedicated climate financing facilities and institutions.

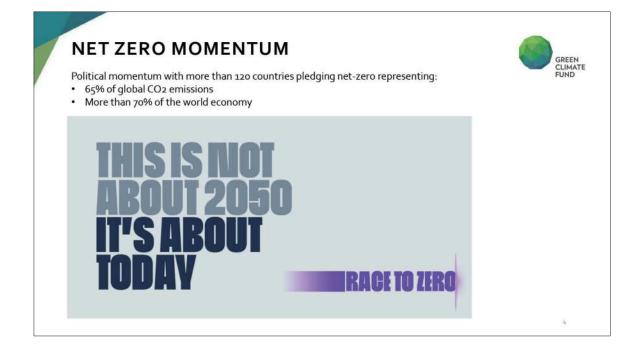
Fourth: we create knowledge and share it. Sharing knowledge and lessons learned promotes the incorporation of climate risks into every single financial decision. In this way finance can be aligned with sustainable developments.

K E Y N O T E

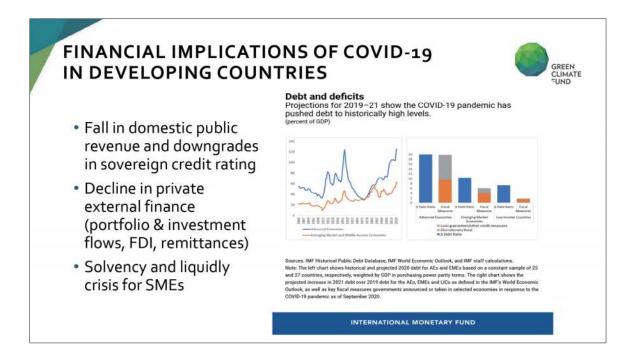


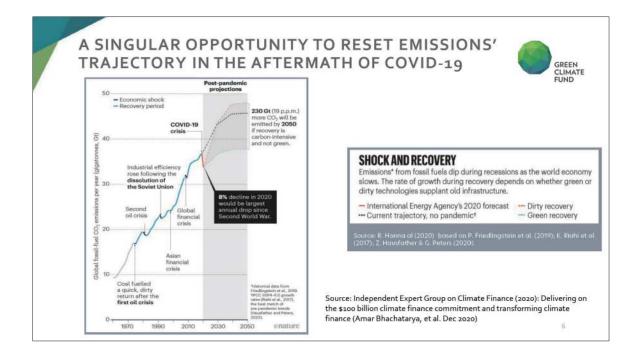


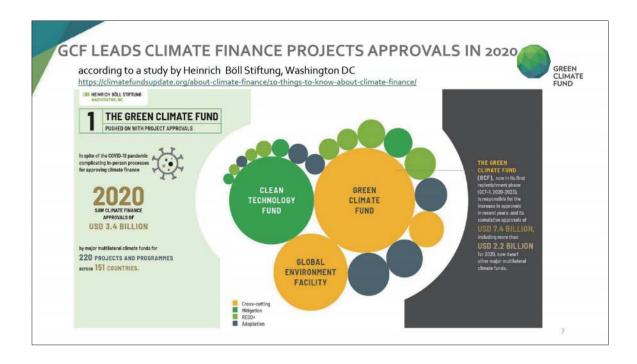


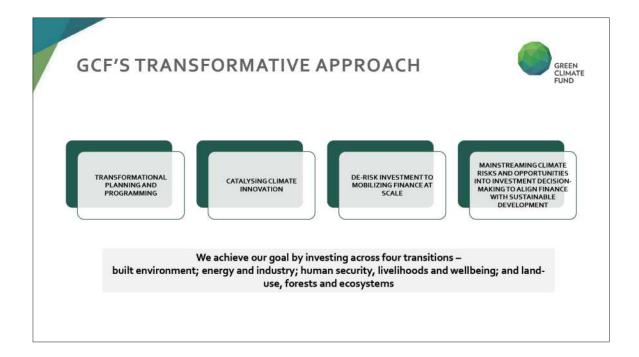


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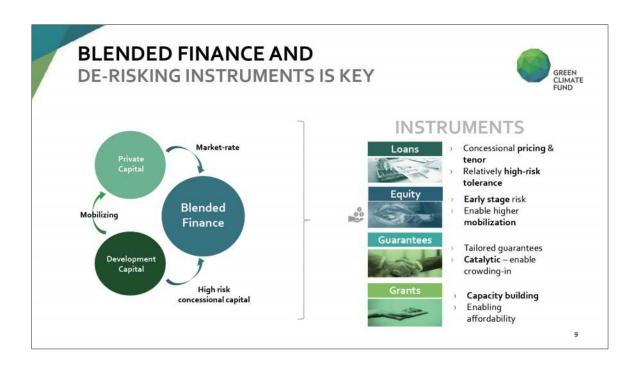






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KEYNOTE





Low Emission Development to Achieve Carbon Neutrality and \$DGs : 12th International Greenhouse Gas Conference

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CATALYSING CLIMATE INNOVATION: EXAMPLE OF PROJECTS





- FP115 Espejo de Tarapacá is a renewable energy project in Chile and is funding what will be the world's largest hydropower station using seawater, providing a vast energy source, and making more freshwater available for drinking water and agriculture.
 - Located in the Tarapacá desert, this project combines a 561 MW photovoltaic solar plant that provides power during the day and a 300 MW pumped storage hydroelectric facility that generates electricity at night, using the Pacific Ocean as its lower reservoir and a natural geographic feature as its upper reservoir.
- Readiness Grant: Facilitating an enabling environment for a Caribbean Green Bond listing on the Jamaica Stock Exchange to establish the Caribbean's first regional green bond market.
 - A GCF readiness grant will help develop a regulatory framework for green bonds and raise awareness in the marketplace among potential issuers and investors.



KEYNOTE



MEMO

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SESSION 1

Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

COUNTRY EXPERIENCE 1

Climate diplomacy- the Danish case



Tomas Anker Christensen

Climate Ambassador of Denmark

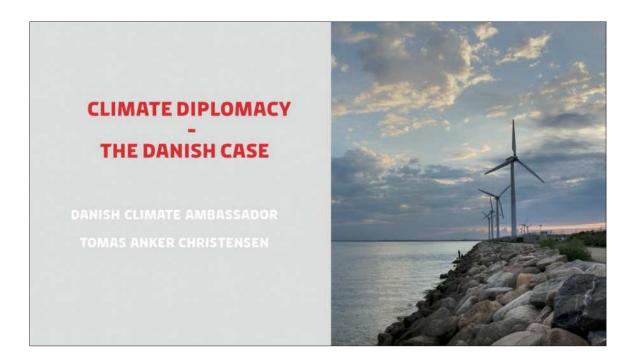


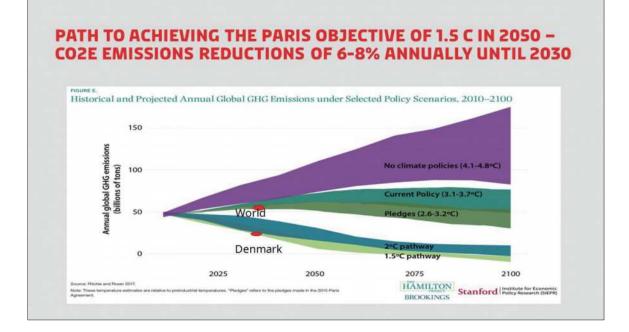
Career History

Tomas Anker Christensen is the Climate Ambassador of Denmark at the Ministry of Foreign Affairs and the Ministry of Climate, Energy and Utilities. He has been Under-Secretary for Global Challenges, where he was at the head of the establishment of the 3GF – an international partnership for green growth, partnerships and transition. Subsequently, he was Senior Advisor for Partnerships to UN Secretary-General Ban Ki-moon and head of the climate team with responsibility for preparing and conducting the 2014 UN Climate Summit. Following this, he was Assistant Secretary General at the United Nations and chef de cabinet for two presidents of the General Assembly (Mogens Lykketoft and Peter Thomson, respectively) with particular focus on implementation of the Paris Agreement and the UN Sustainable Development Goals. Thereafter, Tomas Anker Christensen served as special advisor to the UN's Special Envoy on Climate Action, Michael Bloomberg and to the Special Envoy on the Ocean, Peter Thomson. Ambassador Christensen has also served as Denmark's ambassador to Iran and to Egypt.

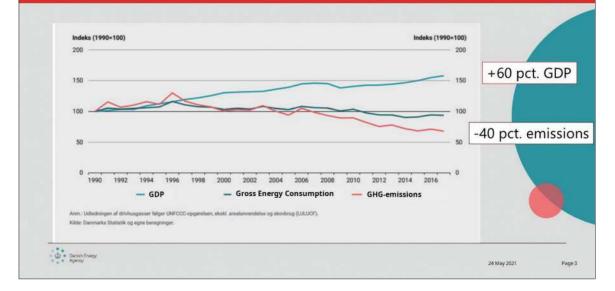
Abstract

Increased global ambitions and actions are necessary to reach the Paris Agreement's objectives. Denmark wants to be a green frontrunner in global climate action that inspires and encourages the rest of the world. Our goal is 70% emissions reductions by 2030and climate neutrality by 2050. We will help lead the green transition, further global ambitions on climate, environment and nature, and actively promote and support the Paris Agreement and sustainable development aligned with the SDGs. We will work for a socially just green transition that creates green skilled jobs and avoids increasing inequality. In my talk, I will go through how and with whom Denmark works climate diplomatically to achieve these goals and further the green transition.



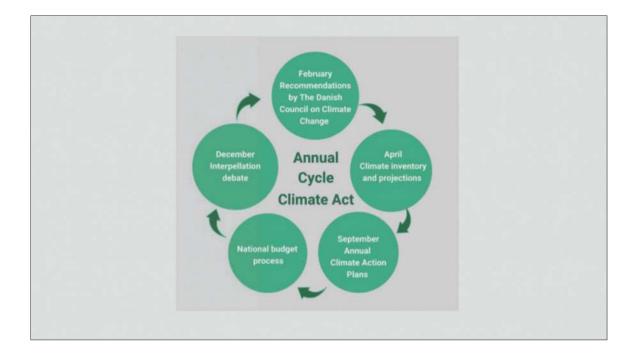


Denmark's example of economic growth and emission reductions *Economic growth, stable energy consumption and emission reductions last 30 years*





KEYNOTE



DENMARK'S NEW GOVERNMENTS 2030 VISION

 70% reduction in CO2 emissions by 2030 mandated by law 50% by 2025.Climate neutrality at the latest in 2050.

Six implementation tracks/action plans:

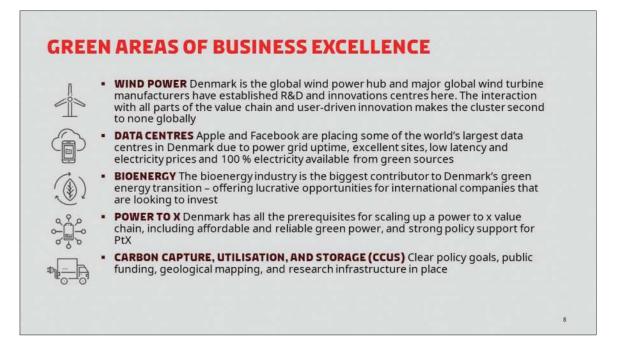
- · Buildings (May 2020)
- · Energy and industry 100% RE by 2028 and PtX (June 2020)
- Waste management and Circular Economy (June 2020)
- Road transport (December 2020)
- Agriculture (2021)
- Taxation (2020/2022)
- Global Climate Action Strategy
- 13 climate partnerships w private sector incl. institutional investors

MINISTRY OF FOREIGN AFFAIRS OF DENMARK



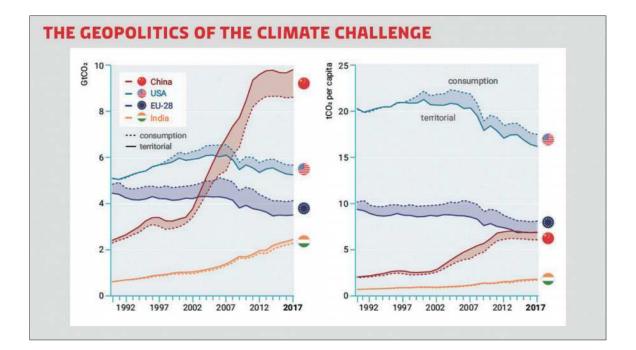
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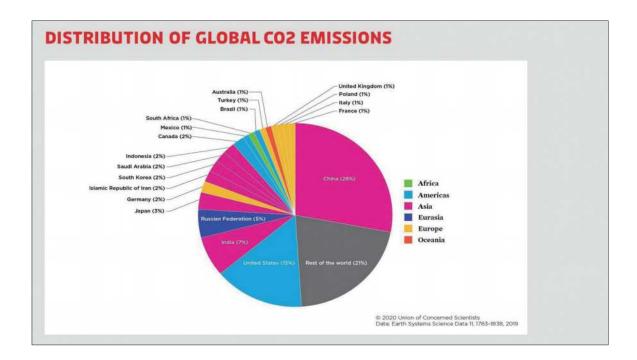


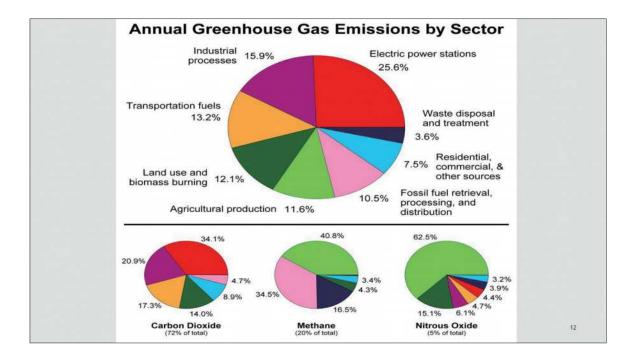


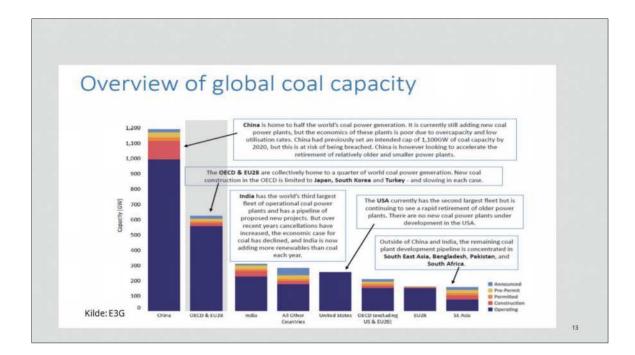
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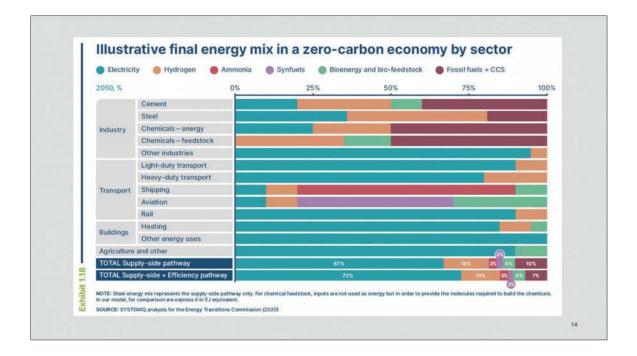














SESSION 1

Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

COUNTRY EXPERIENCE 2

Intervention with insights on sustainable development, climate policies and recovery plans from Germany



Marc-Oliver Pahl

Secretary General, German Council for Sustainable Development



Career History

Dr Marc-Oliver Pahl is head of the office of the German Council for Sustainable Development since March 2020. From 2011 to 2020 he was Head of the Sustainable Development and Environmental Trends department of the Ministry for Environment, Agriculture, Conservation and Consumer Protection of the State of North Rhine-Westphalia (MULNV) in Düsseldorf and in this capacity responsible for devising, implementing and further developing the federal state's sustainable development strategy. Prior to this he worked in the Europe/International Affairs department of the MULNV, in the office of the Committee on Budgets of the European Parliament in Brussels and Strasbourg as well as for the Minister of Federal and European Affairs in North Rhine-Westphalia's state chancellery office. He completed diplomatic training at the German Federal Foreign Office in Bonn and Bamako (Mali). Following law studies in Bayreuth and Münster as well as clerkships in Frankfurt/Oder, Berlin and Brussels, he wrote a dissertation on European constitutional law at the Humboldt-Universität zu Berlin.

Abstract

The German Council for Sustainable Development (RNE) is a multi-stakeholder body that provides recommendations to the German government along the German Sustainable Development Strategy. In doing so, it engages in recommendations and coherence for the national climate plan and pathway towards climate neutrality as well as sustainable development policymaking. Due to a recent decision of the German Constitutional Court, climate action, intergenerational justice and sustainable development must play a major role in policy making, unleashing an enormous dynamic and competition for pathways for socially just climate neutrality before 2050. Building better forward is one element among several that needs to serve this new and ambitious climate and sustainability goals in Germany.

KEYNOTE



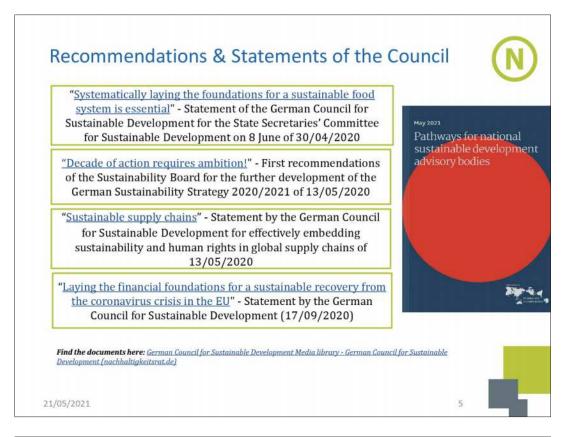
- 2. The German Council for Sustainable Development (RNE)
- 3. The Sustainable Development Strategy and climate protection
- 4. RNE engagement for climate neutrality in, by and with Germany

2

21/05/2021







Sustainable Development Strategy (2021) and the role of climate protection

Energy Transition and Climate Protection is a **transformation area** in the German **Sustainable Development Strategy**:

- Focus on "off track indicators", incl. final energy productivity, primary energy consumption, GHG emission reduction
- Range of activities and key measures for delivery, incl. Climate Law, Climate Action Programme, Renewable Energy Act, coal phaseout, national carbon pricing scheme for non-ETS sectors, international climate finance, sustainable finance strategy
- Many additional measures expected in coming months in the context of the European Green Deal and ruling of the Constitutional Court

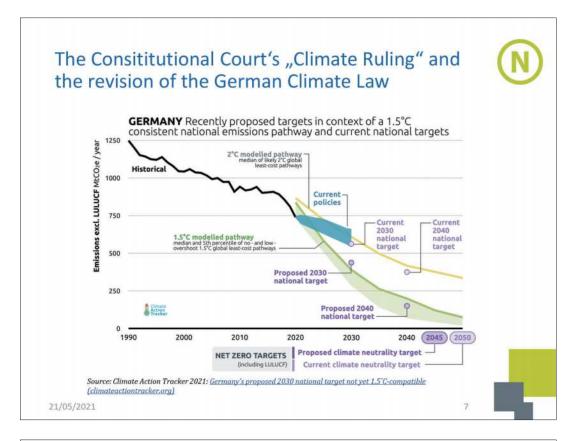
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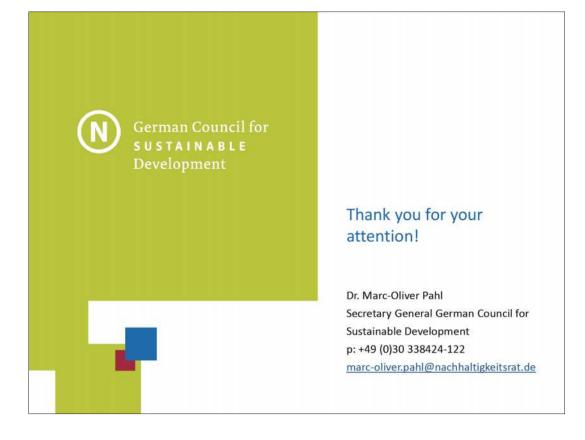
Source: Climate Action (bundesregierung.de)





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KEYNOTE



MEMO

SESSION 1

Synergies in Joint Implementation of Climate Action and the SDGs for Recovery

COUNTRY EXPERIENCE 3

Korean Green New Deal and K-SDGs



Eunhae Jeong

Director of Green Transition, Ministry of Environment of the Republic of Korea



Career History

Ms Eunhae Jeong is currently a director of green transition policy at the Ministry of Environment, Government of Republic of Korea. She recently coordinated the establishment of Korea's Sustainable Development Plan and is keen on making policies to make synergies between the SDGs and Climate Action.

She worked for the Korean government over two decades in the various posts in the Ministry of Environment, Office of the President and the Presidential Committee on Sustainable Development.

She actively engaged in international discourse in the field of Sustainable Development, Climate Change and Biodiversity. She worked for the United Nations Office for Sustainable Development of UN Department of Economic and Social Affairs (UNDESA) for four years as Senior Development Management Expert. During her time at the UNOSD, she led various capacity development activities to assist countries' implementation of internationally agreed Sustainable Development Goals in applying integrated approaches for envisioning, planning, implementing and monitoring national development plans and strategies.

She served as a Council member of Global Environment Facility from 2011 to 2012.

Ms Jeong holds a Masters of Science from School of Environment, Yale University, and a Bachelor's degrees in Biology and Education from Seoul National University.

Abstract

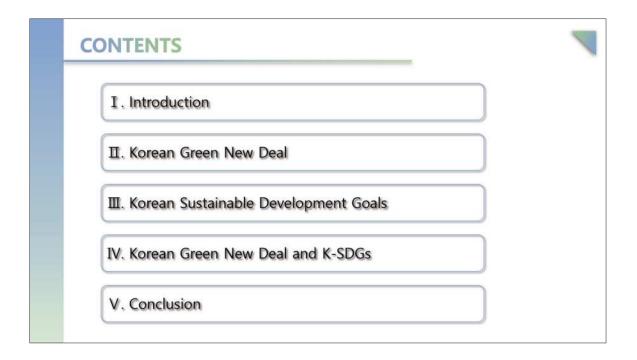
This year is the first year of implementation of the Paris Agreement, which was adopted at COP21 in 2015, and it made 'climate action' gain more international attention. One of the main goals of the Korean New Deal, which was initiated to overcome the economic and social crisis caused by COVID-19, is the transition to a low-carbon society. In particular, the Green New Deal, which is led by the Ministry of Environment, aims to shift to an eco-friendly, low-carbon, and green economy. The Paris Agreement, the Sustainable Development Goals, and Korean Green New Deal all aim for a sustainable future. The Sustainable Development Goals cover all sectors of economy, society and environment, and 'climate action' is one of its 17 goals. This presentation intends to discuss the relationship between the projects under the Korean Green New Deal and the Korean Sustainable Development Goals.

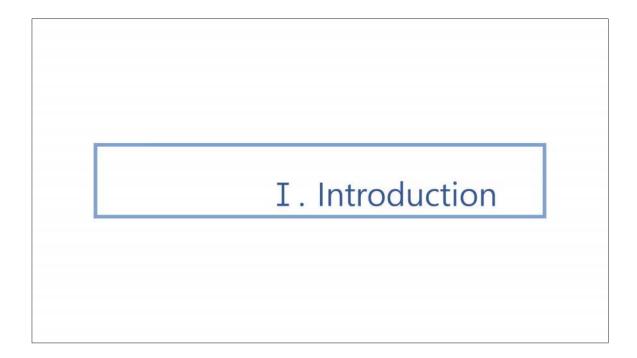
Korean Sustainable Development Goals (K-SDGs) were established in 2018 to localize the UN Sustainable Development Goals by incorporating Korea's specific national circumstances. Many of the Green New Deal projects are directly related to eight of the K-SDGs: 6. Healthy and Safe Water Management, 7. Eco-friendly Production and Consumption of Energy, 9. Industrial Growth and Innovation, 11. Sustainable City and Housing, 12. Sustainable Production and 13. Climate Change Response, etc.

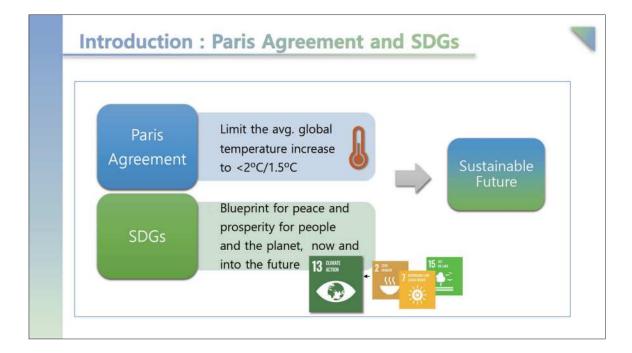
It appears that social goals such as gender equality, inequality, and inclusiveness are relatively under addressed in the Green New Deal. However, since another axis of the Korean New Deal, "Stronger Safety Net," focuses on protecting the vulnerable, it complements the implementation of the goals related to equality and social inclusion.

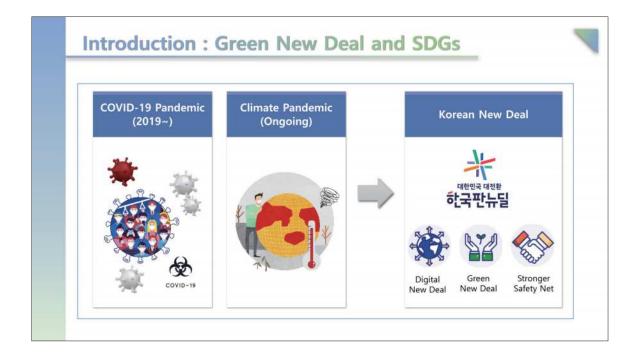
The government intends to prepare scenarios for greenhouse gas reduction and materialize the results of the Korean Green New Deal. In particular, institutional and policy measures will come into place to ensure a just transition in the process towards carbon neutrality. Enhancing the implementation of relevant sustainable development goals through carbon neutrality while securing social equity through just transition is the key to achieving carbon neutrality and sustainable development goals at the same time.

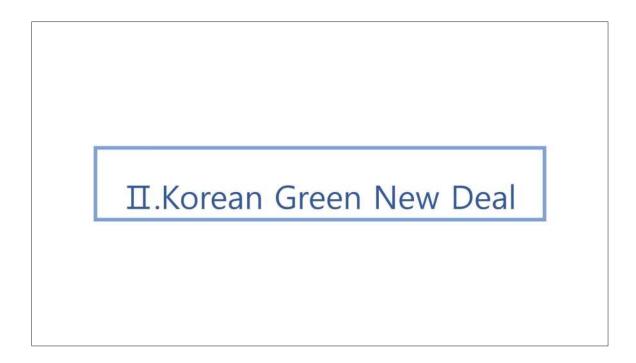


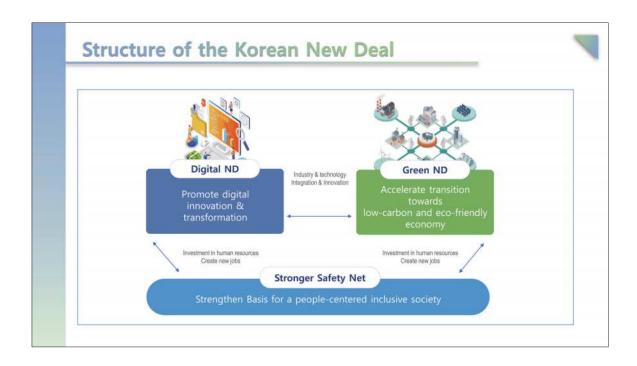






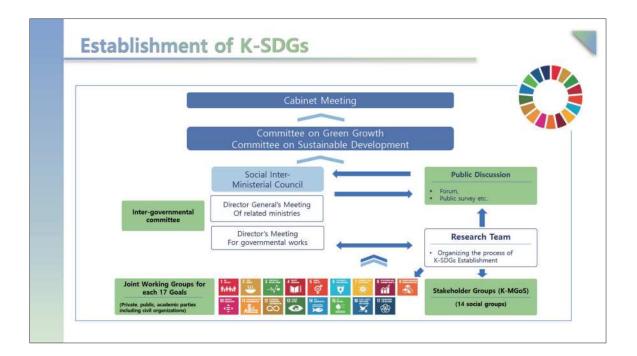


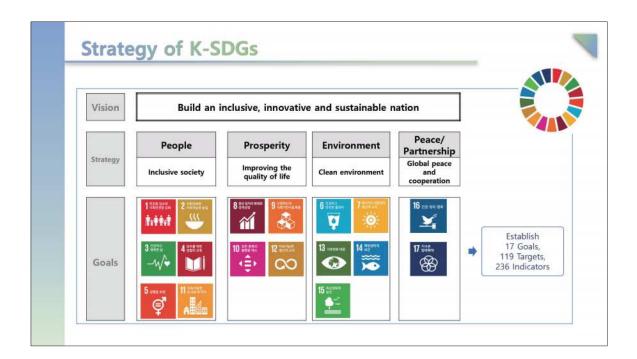




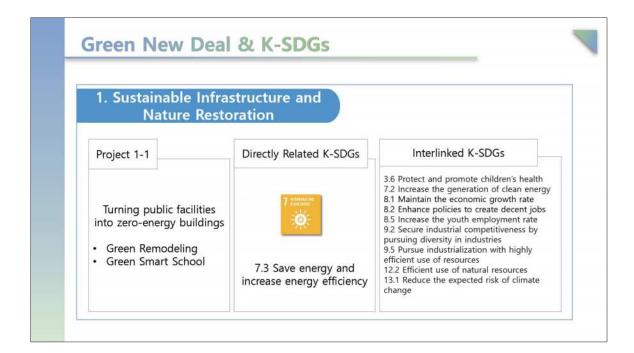






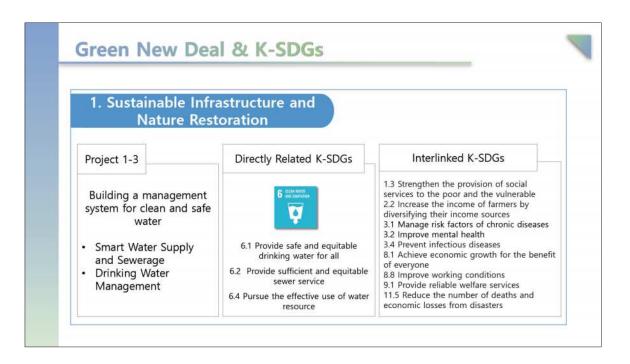




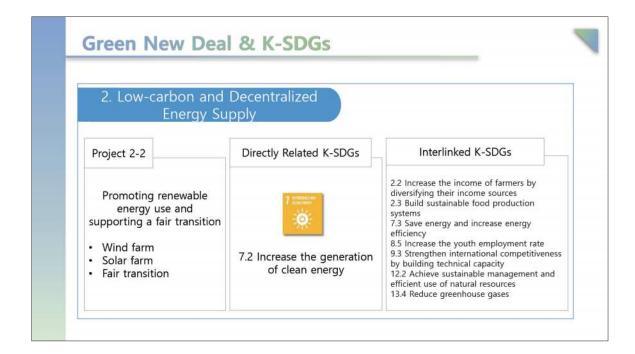










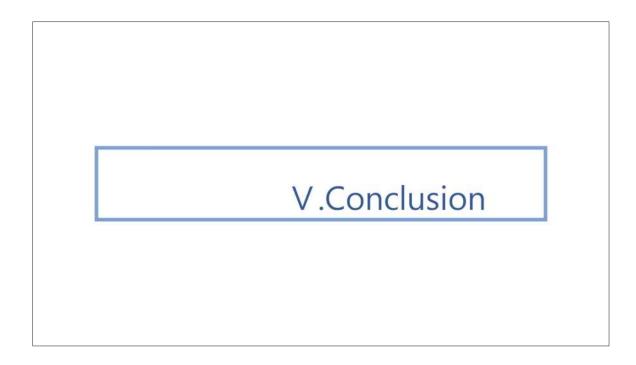


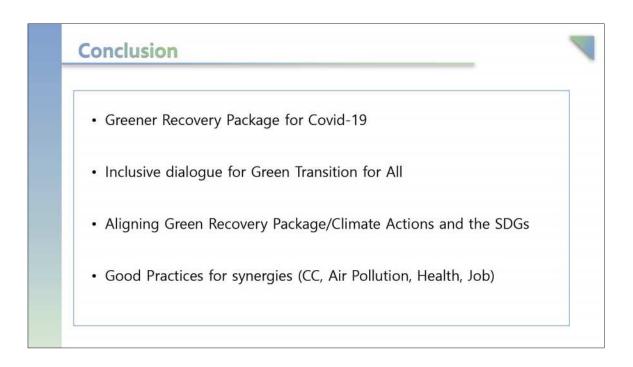


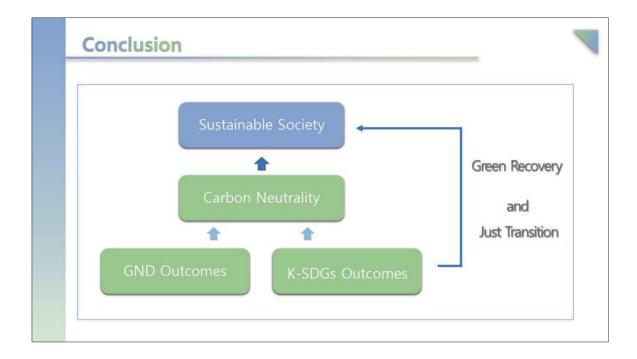
















SESSION 2

Preparing for Carbon Neutrality by 2050

The role of international markets in reaching net zero Stefano De Clara International Policy Director, International Emissions Trading Association (IETA)

UK Net Zero Goals and Strategy for 2050

Alistair Ritchie Director of Asia-Pacific Sustainability, Asia Society Policy Institute (ASPI)

<u>Carbon Neutrality Reinforce Green Low Carbon Transition in China</u> Min Li China Representative, International Emissions Trading Association (IETA)

Carbon Neutrality by 2050 in Korea

Seung Jick Yoo Professor, Sookmyung Women's University

DISCUSSION SESSION

Moderator

William Acworth Head of Secretariat, International Carbon Action Partnership (ICAP)

Panelist

Yeo Ra Chae Director General, Integrated Assessment of Climate and Air Pollution, Korea Environment Institute (KEI)

Panelist

Ji Hye Jo Director/Senior Research Fellow, Circular Economy Policy, Korea Environment Institute (KEI)



SESSION 2

Preparing for Carbon Neutrality by 2050

GLOBAL TRENDS

The role of international markets in reaching net zero



Stefano De Clara

International Policy Director, International Emissions Trading Association (IETA)



Career History

Stefano De Clara is International Policy Director at the International Emissions Trading Association (IETA). Stefano joined IETA in 2014, initially focusing on the EU ETS and UNFCCC negotiations. He currently heads IETA's international work, covering the implementation of the Paris Agreement, Article 6, and international carbon markets. Leading IETA's Business Partnership for Market Readiness (B-PMR) initiative, he also focuses on emerging carbon markets, particularly in Asia. Prior to joining IETA he focused on emissions trading in the Academia and for consulting companies. He holds a M.Sc. in Sustainable Development from the Utrecht University and a B.Sc. in Environmental Science from the University of Trieste.

Abstract

Article 6 of the Paris Agreement aims at establishing a framework for countries to cooperate on NDC achievement, including through market-based approaches. Article 6 has therefore the potential to create a unique driver for the use of international carbon markets as well as domestic carbon pricing policies. Research has also shown that Article 6 has the potential to significantly lower the cost of meeting NDC targets, therefore unlocking more ambition at lower costs. Article 6 also provides a unique entry point for private sector engagement in climate action.

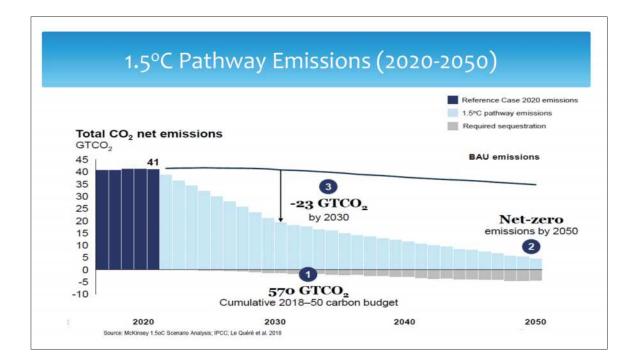
Implementing rules for Article 6 are still being negotiated and they are one of the few unresolved issues in UNFCCC negotiations. Attempts at finding agreement on a common ruleset for Article 6 proved unsuccessful both at COP24 in Katowice, when the Paris Rule Book was adopted, and at COP25 in Madrid. The adoption of implementing rules for Article 6 is now on the agenda for COP26, which will take place in November 2021 in the UK.

At COP26, negotiations on Article 6 will likely face the same challenges as in previous years. At the same time, outside the negotiation process, Article 6 pilots and real world implementations of Article 6 approaches are going ahead, and will provide valuable lessons learnt for the UNFCCC process.

This presentation will provide context on the key components of Article 6, its functioning and its economic and mitigation potential. The presentation will also cover the state of play in the Article 6 discussion, outlining the main roadblocks in the negotiations. It will analyse the implications of the COP25 outcome and will reflect on the way forward for the Article 6 negotiations.

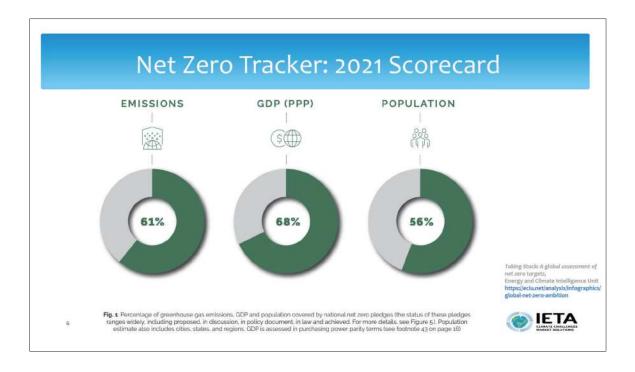


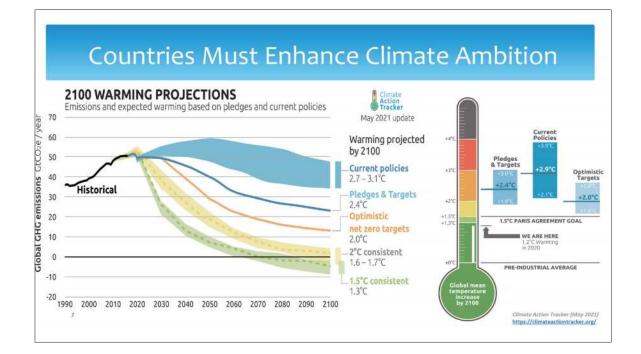


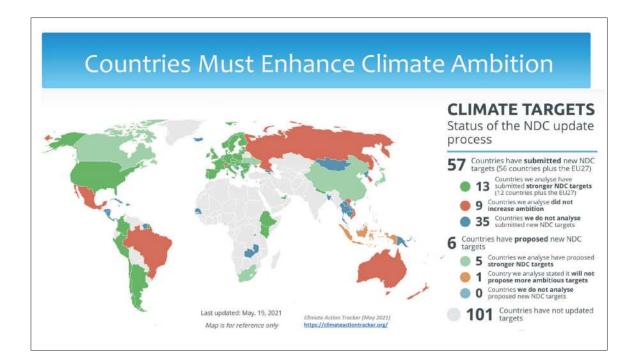


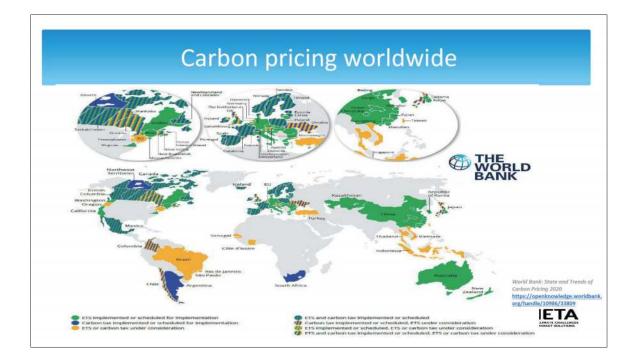


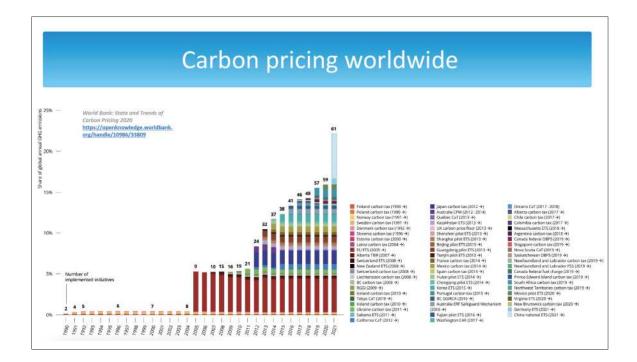


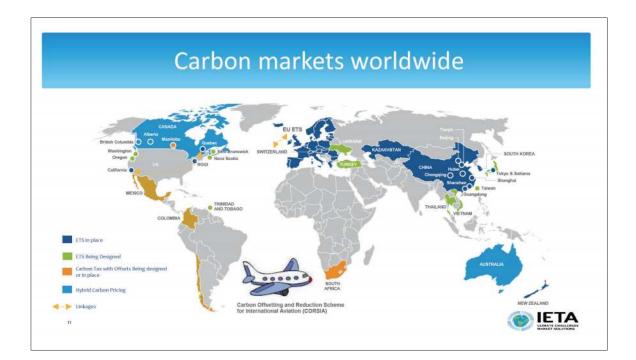


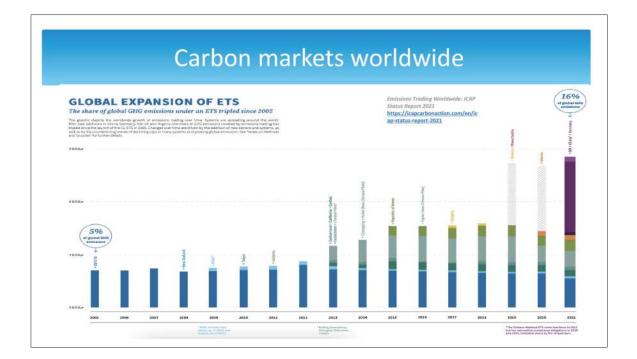


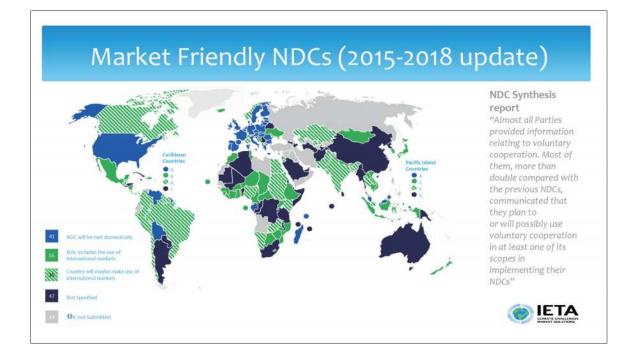




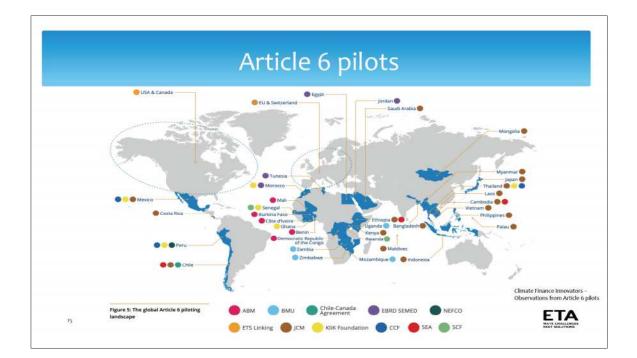


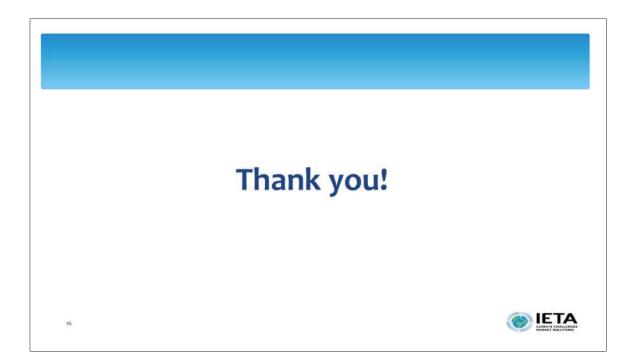






How valuable	IS Artici	e 6:	
 The economic potential available through Article 6 from extension to include land use change is significant. 	2030 Potential Article 6 Reduction in Cost (Billions 2015 USD/year)		
 * Utilizing the economic efficiency gains to enhance ambition offers additional potential benefits * All countries show GDP gains * Realizing this potential is a major real- world challenge. 		Reduction in Cost	Increased Ambition
	Fossil Fuels Only	~\$250 billion	5 GtCO ₂ per year
	Land Use Only	~\$70 billion	4 GtCO ₂ per year
	Combined	~\$320 billion	9 GtCO ₂ per year





SESSION 2

Preparing for Carbon Neutrality by 2050

COUNTRY EXPERIENCE 1

UK Net Zero Goals and Strategy for 2050



Alistair Ritchie

Director of Asia-Pacific Sustainability, Asia Society Policy Institute (ASPI)



Career History

Alistair Ritchie leads and oversees activities on Asian carbon market development and net zero GHG emission goals. Alistair is an international expert in greenhouse gas emissions trading systems (ETSs), and a known leader in their development. He is currently leading a major project to contribute to resolving design challenges of China's national ETS and building regional connections across Asia to support ETS development. He is also leading a project to share international experience and best practice in developing strategies to achieve net zero GHG emission goals with climate and energy policy specialists from Korea. Previously, he was leader of the European Commission project to support the Korean government's implementation and upgrade of the K-ETS. He was also the technical lead for the European Commission project to support the development of China's national ETS and led studies to support ETS development in Chinese Taipei. In Europe, Alistair played a key role in improving the EU ETS through managing and directing several projects to support Phase 3 and 4 policy design and implementation. Alistair holds a degree in Chemical Engineering from Nottingham University in UK and an MBA from the Open University.

Abstract

Since the UK put net zero GHG emission goals by 2050 into legislation in 2019 there have been some further significant developments. In April 2021 it was announced that the UK will reduce emissions by 78% by 2035 compared to 1990 levels in its sixth carbon budget, which would take the UK more than three-quarters of the way to reaching net zero by 2050. This was in line with the recommendation from the independent Climate Change Committee that has described the path to net zero as part of a blueprint for a fully decarbonized UK which meets the Paris Agreement stipulation of 'highest possible ambition'. The pathway is challenging but also hugely advantageous, creating new industrial opportunities and ensuring wider gains for the nation's health and for nature. However, there is concern about whether there are sufficient policies to meet these targets and sufficient action and investment on the ground.

This presentation will explore the UK's net zero GHG emission goals and milestone reduction targets, the associated governance system, the expected costs of achieving the targets, the transition pathway and the required policies and investments in key emitting sectors. The key issues and challenges facing the UK in achieving these targets will be summarized and lessons for other jurisdictions will be highlighted.



UK Net Zero target and strategy for 2050

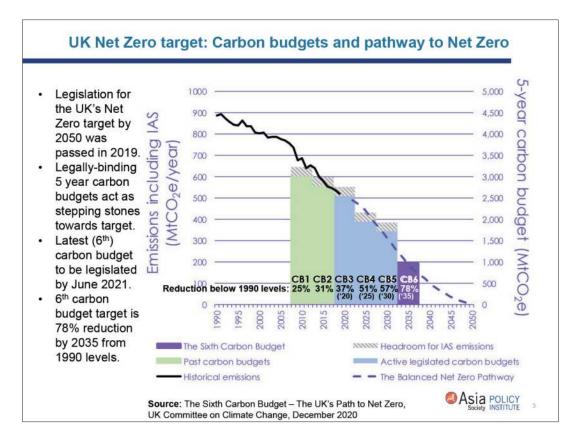
Low Emission Development to Achieve Carbon Neutrality and SDGs: 12th International Greenhouse Gas Conference

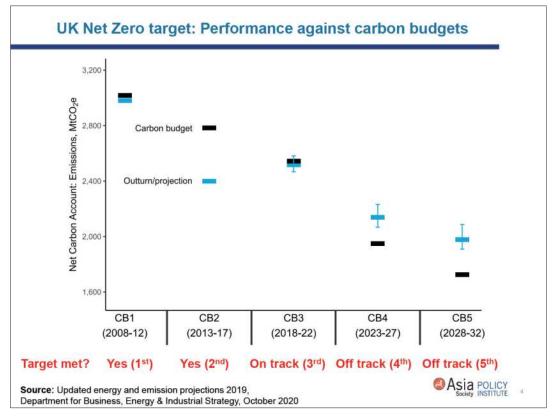
> May 28th 2021 Alistair Ritchie

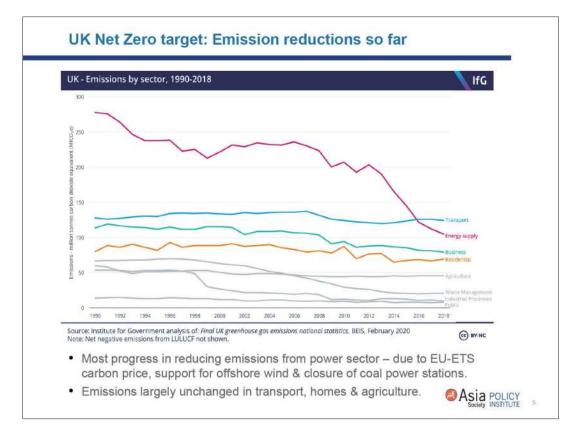
> > Asia POLICY

Agenda

- UK Net Zero target
 - Carbon budgets and pathway to Net Zero
 - Performance against carbon budgets
 - Emissions reductions so far
- · Strategy for Net Zero
 - Key elements of approach
 - Required pace of emissions reductions
 - Types of abatement needed
 - Capital costs and operating cost savings
 - Overall sequence
 - Priorities for key sectors
- Conclusions

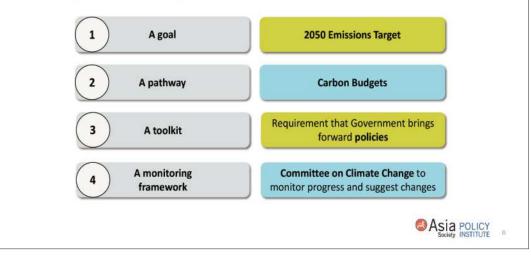


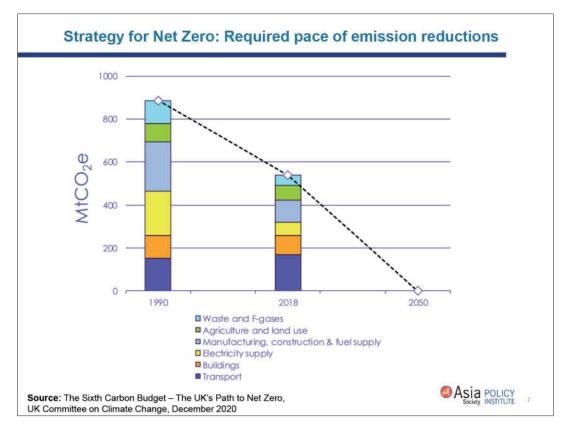


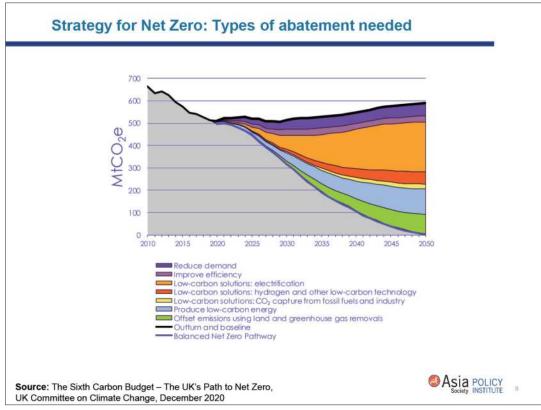


Strategy for Net Zero: Key elements of the approach

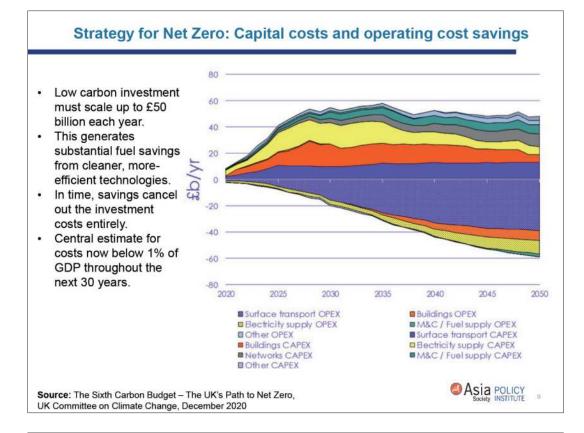
- The Climate Change Act provides the legal framework for Net Zero targets.
- It assigns duties and responsibilities for action based around independent expert advice and monitoring.
- The basic framework of the Act ensures that goals are evidence-based and translated into near-term action.
- · Key elements of the approach are summarized below.







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Strategy for Net Zero: Overall sequence Legislate 6th Carbon Budget Update NDC Legislation · Comprehensive Net Zero strategy · Finalisation of multiple strategies and decisions: energy, heat & buildings, carbon pricing, & strategies transport, industrial, hydrogen, etc Business models for hydrogen, CCS & industrial decarbonisation Progress · Goals and policies for aviation & shipping aligned with Paris Agreement · Large scale trials for HGVs across all · Future homes standard legislated By 2024 areas · By 2024: No more coal-fired power generation · By 2030: 40 GW offshore wind Scale up · By 2030: 25 TWh low-carbon hydrogen By 2030: 25 TWh of manufacturing energy use to electricity or hydrogen · Heat pumps at scale, CCS at industrial clusters, widespread EV charging infrastructure Roll out · By 2032: No new fossil fuel cars & vans (by 2040 almost no new diesel HGVs) · By 2033: No new gas boilers · By 2035: All ore-based steel-making near zero emissions · By 2035: No more unabated gas-fired power generation · Scale up of low-carbon electricity and hydrogen, GHG removals and CCS infrastructure Net zero Asia POLICY 10

Strategy for Net Zero: Priorities for key sectors

- Surface transport
 - Policies to phase out new sales of petrol & diesel cars & vans by 2030.
 - Commitment to phase out sales of diesel heavy goods vehicles no later than 2040.
 - Recharging and refuelling infrastructure to develop to meet the range of emerging needs.
 - Policies to reduce travel demand.
- Industry
 - Comprehensive transition support framework including funding to ensure industries stay internationally competitive while reducing emissions.
 - Development of longer-term policies, such as border carbon tariffs or carbon standards.
 - · Policy must tackle both demand-side and supply-side for low-carbon products.
- Buildings
 - Heat and buildings strategy including phase-out of fossil heating, rebalancing of policy costs between electricity and gas, & commitments to funding and delivery plans.
 - · Timetables for standards to make all buildings energy efficient and ultimately low-carbon.
 - Scale up supply chains for heat pumps & heat networks & develop option of hydrogen for heat.
- · Electricity generation
 - · Auctions of renewable contracts to support scale-up of low-carbon generating capacity.
 - Policy to address barriers to major scale-up required, including connections from offshore windfarms to onshore network and strengthening UK's power grid.
 - Following on from 2024 coal phase-out, gas-fired power without CCS phased out by 2035.
 - Improve flexibility must accelerate to accommodate the increasing shares of variable power.
- Low-carbon hydrogen
 - Hydrogen strategy to be published in 2021. To set out vision for hydrogen's role in meeting Net Zero together with actions, regulations and incentives.

Asia POLICY

Conclusions

- To reach Net Zero target there must be a process, a sequence and a governance system.
- The early years of the UK's pathway focus on scaling up new policy development, ramping up new supply chains for low-carbon goods & addressing sectors that have progressed too slowly: transport, industry, buildings, agriculture.
- Sales of most high carbon goods are phased out in UK altogether by the early 2030s. Emissions fall sharply over the 2030s, before levelling off in the 2040s, as final hurdles are cleared to reach Net Zero.
- Utmost focus is required from UK government over the next ten years to scale up policy across every sector, encourage business to invest and engage people in the challenge.
- The UK has already made significant progress towards Net Zero in the power sector due to carbon pricing and investments in renewables.
- The UK's process & governance system for achieving Net Zero can be a good example, although detailed pathway may not be transferable to other countries as it depends on country-specific emissions profiles and other circumstances.
- Based on the UK's estimates, investment costs to achieve Net Zero are below 1% of GDP per year, with savings due to more efficient technologies outweighing these costs in later years.



Asia POLICY



MEMO

SESSION 2

Preparing for Carbon Neutrality by 2050

COUNTRY EXPERIENCE 2

Carbon Neutrality Reinforce Green Low Carbon Transition in China



Ll Min

China Representative, International Emissions Trading Association (IETA)



Career History

Li Min has long engagement in climate change and sustainable development activites in China since 2004 through numbers of international/multilateral capacity training programs, as CDM, MDG, etc. in the central governmental body and later on GmbH German Technology Cooperation (GTZ, now renamed GIZ) as the programme officier and Country Coordinator of German BMU CDM Programme to set up a sizeable CDM portfolio with the support of programme advisor and China CDM experts. The programme also developed regular bilingual briefings and policy papers on the regulatory and commercial developments of Chinese carbon market. From 2010-2016, she worked for Blue World Carbon Capital Ltd. (one of the top carbon credit buyers in China) as China Representative and took charge of the Beijing Rep Office, including the office daily operation, human resource & financial management, projects origination and aquisation. At present, she is leading IETA's overall tasks and activities in China as its China Representative and in coordination with IETA secretariat and key memers in regular updates on policy and market briefings, reports and global events.

Abstract

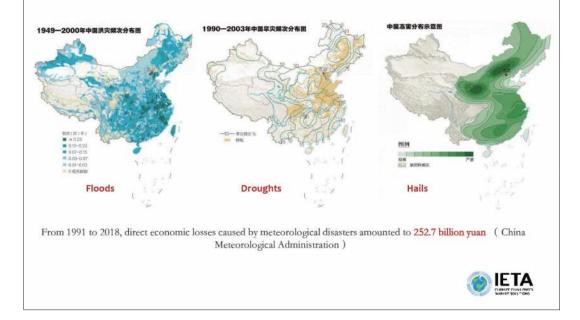
On September 22, 2020, President Xi Jinping has made a solemn declaration to the world that "China will strive to reach the peak of carbon dioxide emissions before 2030 and achieve carbon neutrality before 2060", these goals have been repeatedly emphasized later on at seven major international conferences. Carbon peaking and carbon neutrality have become national strategies relevant content has been written into the CPC Central Committee's Proposal on Formulating the Fourteenth Five-Year Plan for National Economic and Social Development and the Long-Term Outlook for the year 2035. Listed as one of the eight key tasks of the Central Economic Work Conference in December. Reinterated at the ninth meeting of the Financial and Economic Commission of the CPC Central Committee held in March 2021.

Carbon peak and carbon neutral goals are the inherent requirements of China's sustainable development, to take the international responsibility for addressing climate change and promoting the building of a community with a shared future for mankind. It concerns China's future national development strategy and will have a fundamental impact on China's economic structure and social development orientation, triggering a profound change in governance, energy, technology, consumption and so on. Carbon peak and carbon neutrality goals will lead and restructure the current mindmap and pattern of China's efforts to deal with climate change and low-carbon development set new directions and requirements for work in the next stage, including economic and social development, climate change, and ecological and environmental protection.

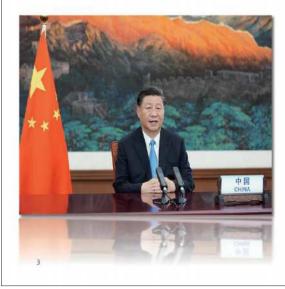
The presentation will focus on: The proposal, policy background and significance of carbon peak and carbon neutral target in China. The work task force structure for achieving carbon peak and carbon neutrality, as well as the actions of relevant ministries and commissions, provinces and cities, and enterprises in key industries. Raise a few personal suggestions and development prospects for China's next strategic pathway to achieve carbon peak and carbon neutrality, coping strategies for enterprises, highlights of the Chinese National ETS.



Natural Disaster caused by climate change



Peak Co2 Emission & Carbon Neutrality Goals



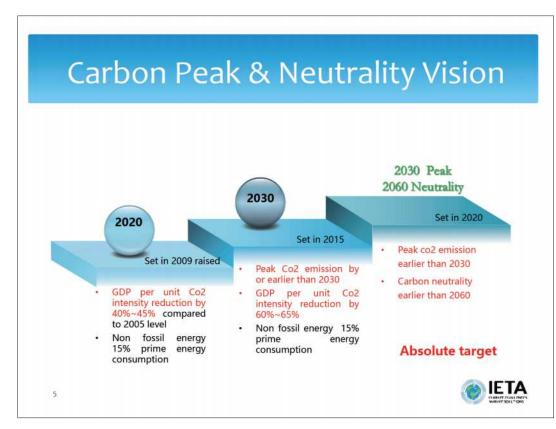
- Peak Co2 Emission earlier than 2030;
- Reach Carbon Neutrality earlier than 2060;
- Green recovery

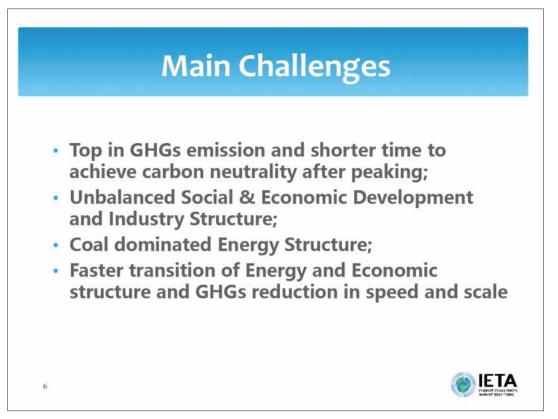


Highlight in 14th FYP & 2035 Outlook

- 第十四个五年規划建议: "…推动能源清洁低碳安 全高效利用。发展绿色建筑。开展绿色生活创建活动。 降低碳排放强度,支持有条件的地方率先达到碳排放 峰值,制定二〇三〇年前碳排放达峰行动方案。…"
- 14th FYP support certain region with advantages to peak co2 emission in earler stage, formulate action plan to peak co2 emission earlier than 2030
- Total & intensity of energy consumption
- Trading of carbon, pollutant permit, energy certificant, water, etc.
- 二〇三五年社会主义现代化远景目标: "…广泛形成绿色生产生活方式,碳排放达峰后稳中有降,生态 环境根本好转,美丽中国建设目标基本实现;…"
- 2035 Outlook: Green production and life style, carbon emission is steady with decline after peaking







Major Changes Needed

1. Natioanl Target

- Included into general national economic and social development plan
- Intensified reduction target set in 14th & 15th FYP

2. Indudrty Optimizing & Restructuring

Convential: upgrade, smart, green

New impetus in emerging, service, digital economy

3. Transformation in Energy systems

Change the domination of coal Increase renewabls wind, solar, hydro **20%** by 2020, **25% by** 2030 **1.2 billion kw by end of 15th FYP 2030**



5. Direct fund to low carbon

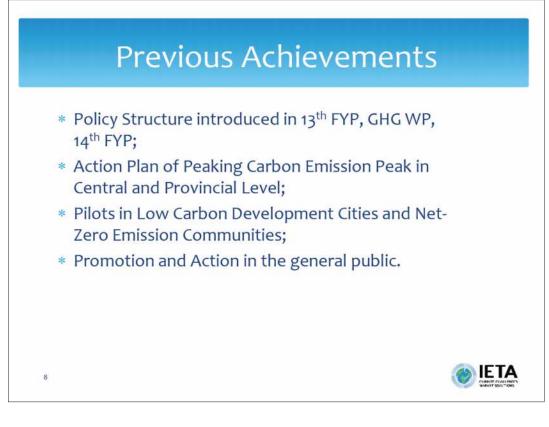
2020-2050, **100 trillion Yuan** needed for energy system restructuring; 30 **trillion Yuan** for energy supply to industries, constrution, transportaiton, etc.

4. Technology Innovation

Tecology in decarbonlizaiotn in energy, industry, transportaiton, etc.

Digitalizaiton, smarterlization

IE TA

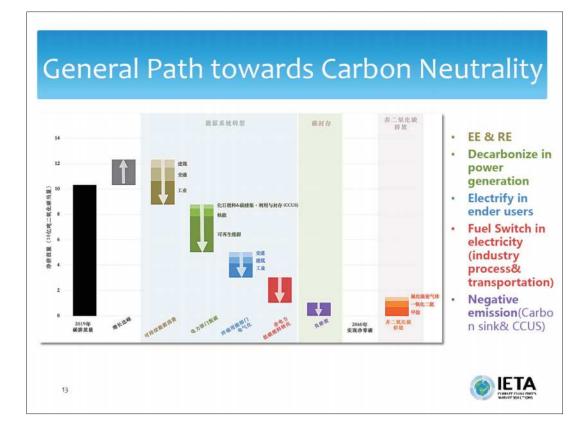


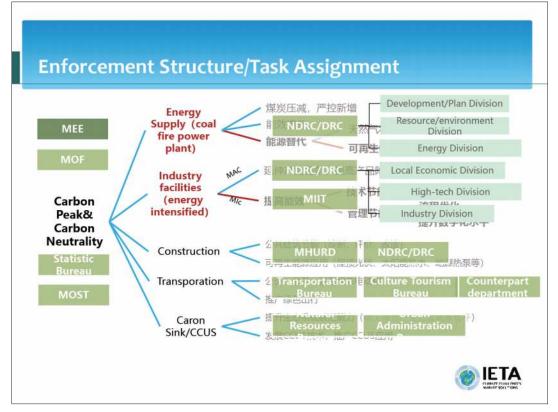


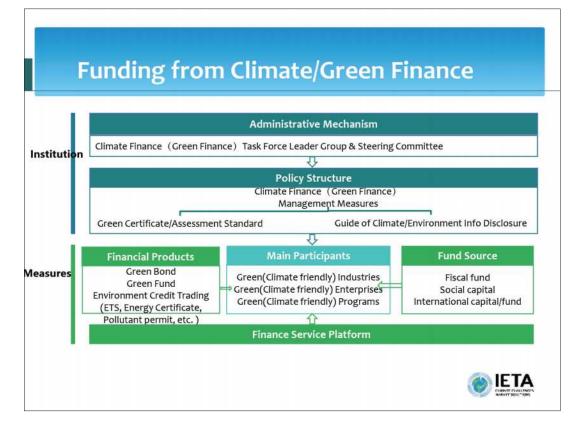














SESSION 2

Preparing for Carbon Neutrality by 2050

COUNTRY EXPERIENCE 3

Carbon Neutrality by 2050 in Korea



Seung Jick Yoo

Professor, Sookmyung Women's University



Career History

Prof. Seung Jick Yoo has played the principal roles in setting the national mid-term GHGs reduction goal up to 2030 as well as the GHGs reduction goal up to 2020 of Republic of Korea. The national greenhouse gas reduction plan up to 2020 was approved by presidential cabinet meeting and announced by former President Lee, Myong-bak in the held in Copenhagen, Denmark in 2009. He has also been deeply involved in the development of national green growth strategies and implementation plan in Korea.

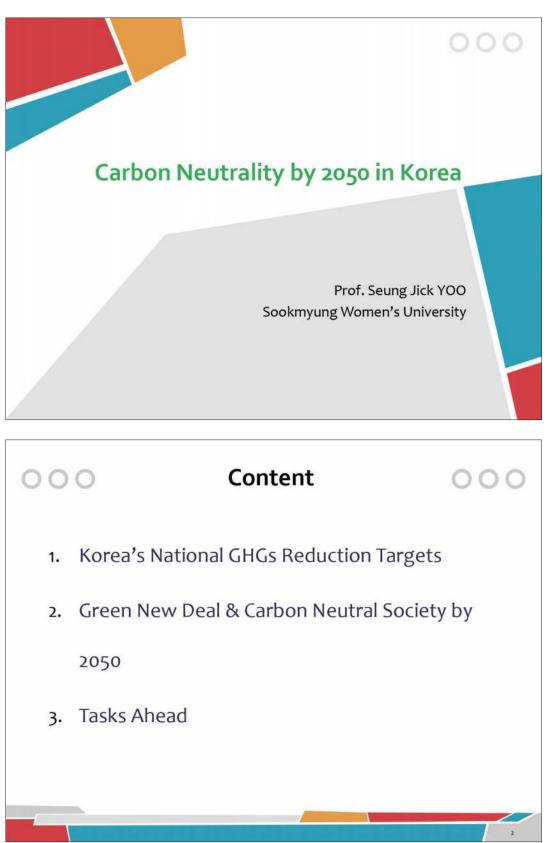
Since he was nominated as the President of Greenhouse Gas Inventory & Research Center of Korea, the principal national agency in management of national and entity level GHG inventories and setting national, sectoral and entity-level greenhouse gas inventory reduction targets, he has been in charge of publication of annual national inventory, national communications and management of entity-level greenhouse gas emission. He designed and implemented the National Emission Permit Trading System (Korean ETS) and developed national permit allocation plan and allocated the permits to the entities in 2014. He, as the President of GIR, developed the national GHGs emission reduction target up to 2030, which was approved the presidential cabinet meeting under Former President Park, Geun-Hye in 2015. After moving to Sookmyung Women's University 20 January 2016, he is teaching the climate change modeling, environmental and energy policies. Prof. Yoo also deeply involved in the national climate change policy setting and implementation as a key member for the Prime minister's committee on Green Growth and the Minister of Environment's advisory committee.

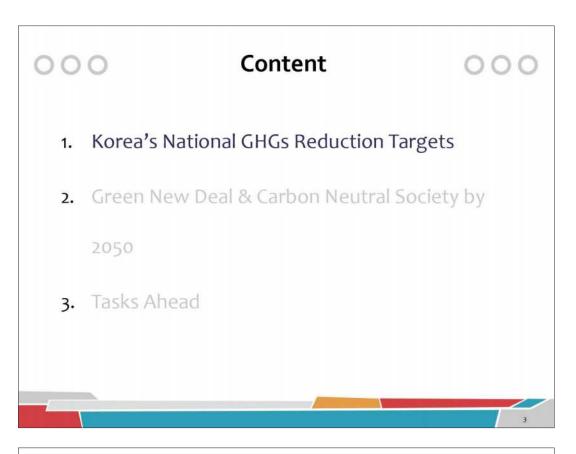
Abstract

Korean government submitted its long term low carbon development strategy, "2050 Carbon Neutrality Strategy of the Republic of Korea" in December 2020 to UNFCCC secretariat. This presentation reviews the key components of the 2050 Carbon Neutrality Strategy and investigates the challenges ahead. Facing significant economic slow-down of Korean economy due to COVID19, the Green New Deal and the Digital New Deal are the two pillars to make the Korean economy into the carbon neutral by 2050. Massive development and deployment of innovative green technology is the engine of transition of Korean economy. For example, electric power, generated from renewable sources, will be the main energy type used in the economy. The self-driving vehicles will use electricity or hydrogen fuels in the transport sector.

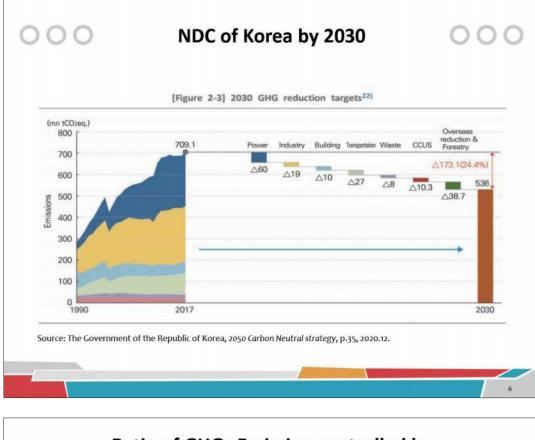
However, transition to carbon neutral economy by 2050 faces a lot of challenges in Korea because it requires very rapid negative growth rate in GHG emissions from now. It needs very well organized strategies and detailed plans for the successful and harmonious outcomes. The transition is not a simple solution to address an environmental issue alone, but is to build a comprehensive and innovative pathway to carbon neutral economy by addressing changes in industrial structure, job security and retraining of the workforces for net zero economy.

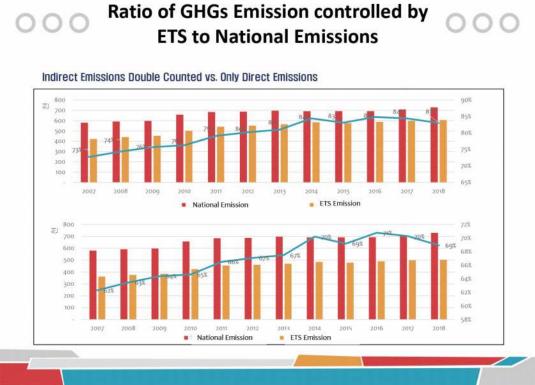
It concludes that a well-designed plan needs to be announced to the public as soon as possible in order to have the consumers and the producers prepared the dramatic changes in their lifestyles, production process as well as the products produced. In addition, carbon prices will be the principal driver to give incentives to the development and deployment of innovative green technology as well as the change in the consumption behaviors.



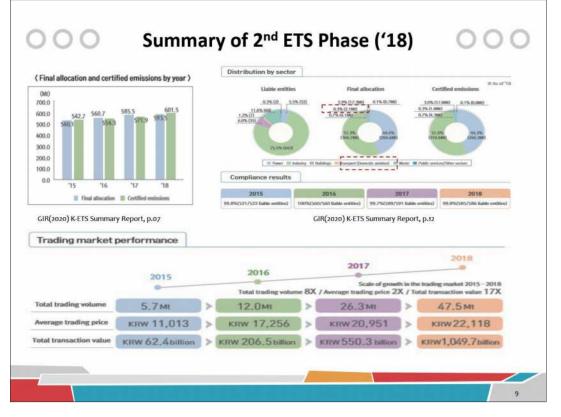


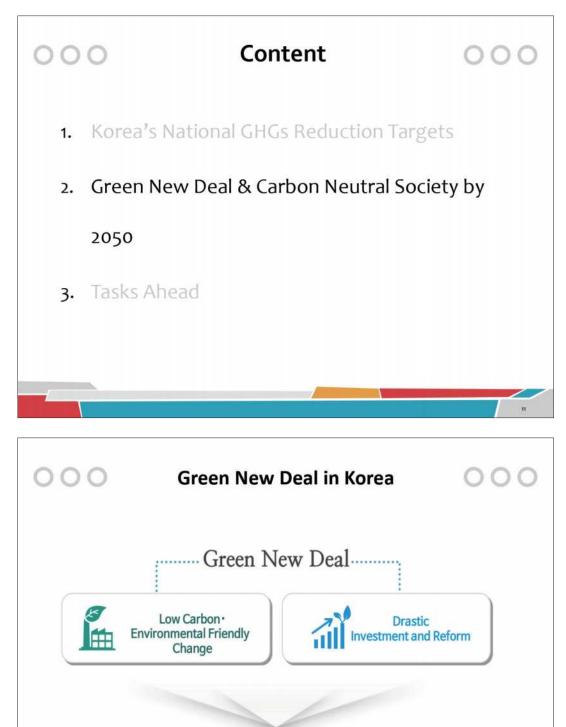












Concurrent Overcome both Climate · Ecological Crisis and Economic Crisis



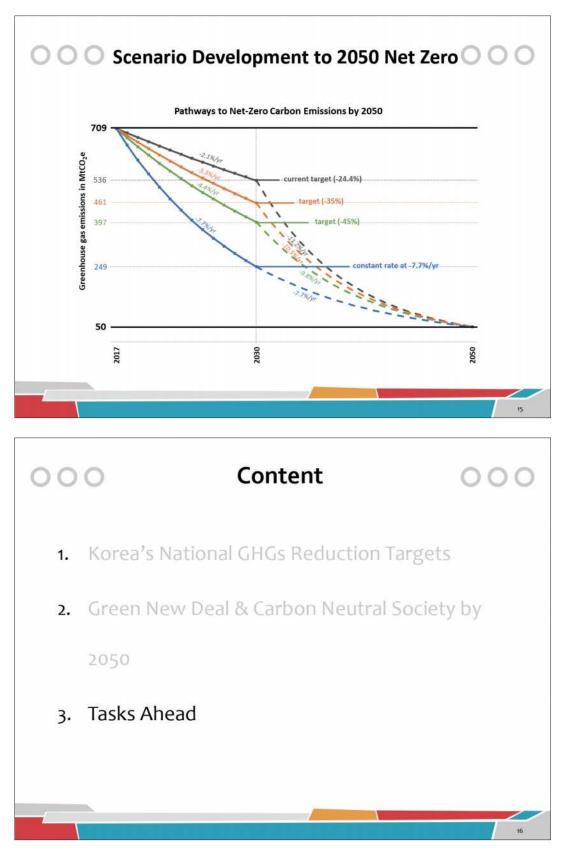
Korea's 2050 Vision

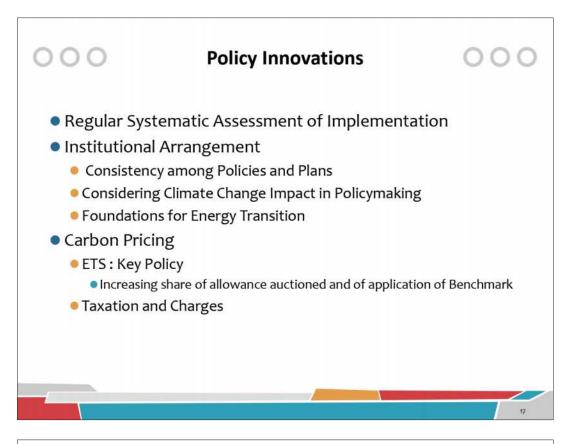
VISION

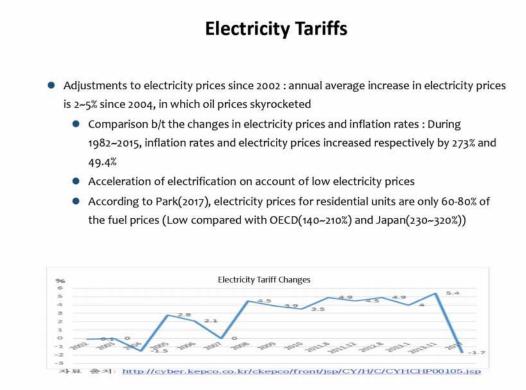
The Republic of Korea moves towards the goal of carbon neutrality by 2050. The Korean New Deal will serve as a stepping stone to reach carbon neutrality by 2050. Korea will harness green innovations and advanced digital technologies to create synergies between the Green New Deal and the Digital New Deal, the two pillars of the Korean New Deal. Korea will also take decisive action especially in supporting and investing in the development of innovative climate technologies to achieve carbon neutrality by 2050. Tackling climate change requires global efforts and collective engagement. Korea will lead by example to help the international community jointly make efforts to reach carbon neutrality by 2050.

KEY ELEMENTS

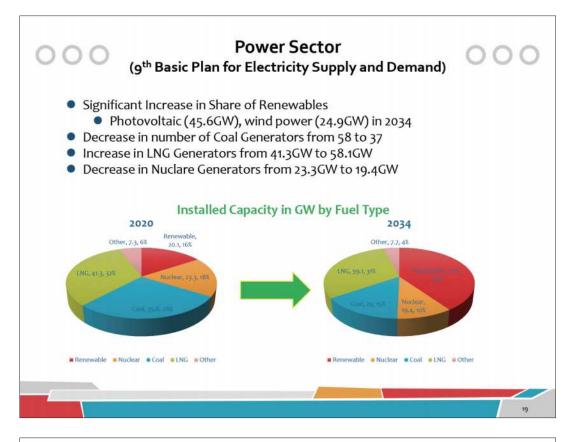
- Key element 1: Expanding the use of clean power and hydrogen across all sectors
- <u>Key element 2</u>: Improving energy efficiency to a significant level
- Key element 3: Commercial deployment of carbon removal and other future technologies
- <u>Key element 4</u>: Scaling up the circular economy to improve industrial sustainability
- Key element 5: Enhancing carbon sinks

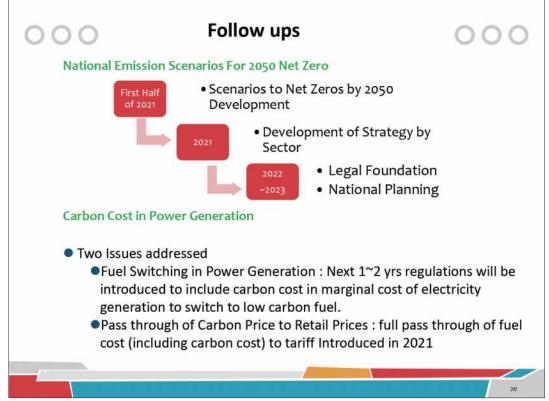


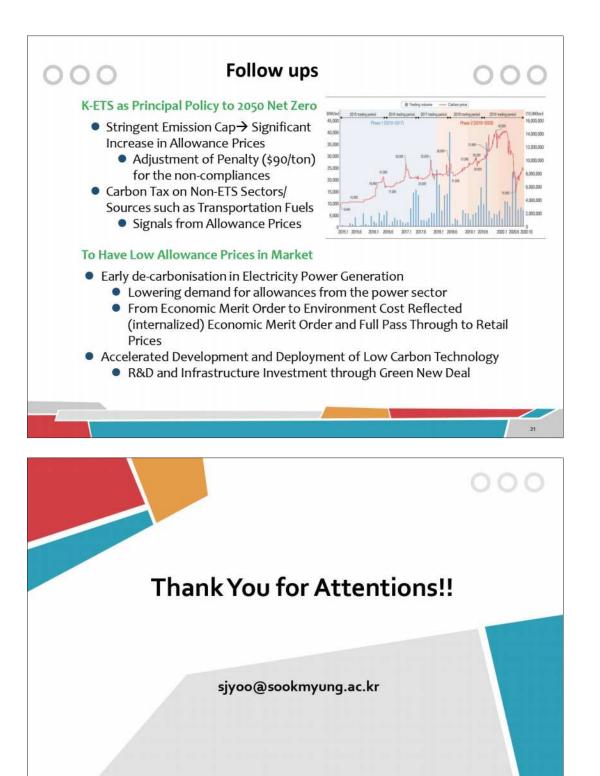




KEYNOTE







DISCUSSION SESSION

Preparing for Carbon Neutrality by 2050

MODERATOR



William Acworth

Head of Secretariat, International Carbon Action Partnership (ICAP)



Career History

William Acworth co-leads the Carbon Markets and Pricing team at adelphi. In his role as Head of the Secretariat of the International Carbon Action Partnership (ICAP), he works together with more than thirty governments around the world to advance carbon pricing as a key tool on the path to decarbonizing our economies. Over the past half decade, William has led ICAP's work on building capacity for emissions trading as well as key projects within ICAP's technical dialogue. Recently his focus has been on industrial decarbonization as well as carbon pricing implementation in Latin America and East Asia. Prior to joining adelphi, William worked as a research associate in the climate policy team at the German Institute for Economic Research (DIW Berlin) as well as with the Potsdam Institute for Climate Impact Research. He began his career in Australia, where he held positions with ACIL Allen Consulting as well as the Australian Bureau for Agricultural and Resource Economics, where he advised State and Commonwealth governments on climate policy. William holds a first class honours degree in Resource Economics from the University of Sydney, Australia, as well as a Masters of Public Policy from the Hertie School of Governance in Berlin, Germany.

DISCUSSION SESSION

Preparing for Carbon Neutrality by 2050

PANELIST



Yeo Ra Chae

Director General, Integrated Assessment of Climate and Air Pollution, Korea Environment Institute (KEI)



Career History

Dr. Yeora Chae is a director of climate, air and safety division at Korea Environment Institute. Dr. Chae is specialized in integrated assessment of climate change and air pollution. Her recent works include "Analysis of socio-economic impacts of heatwave", "Integrated analysis of climate mitigation and adaptation". She completed MSc in Climate Change with distinction at University of East Anglia, UK. She obtained PhD. in climate change policy analysis with Dr. Chris Hope at University of Cambridge, UK.

DISCUSSION SESSION

Preparing for Carbon Neutrality by 2050

PANELIST



Ji Hye Jo

Director/Senior Research Fellow, Circular Economy Policy, Korea Environment Institute (KEI)



Career History

Dr. Jo works in the Division of Resource Circulation, Korea Environment Institute (KEI). Her field of research is related to Circular Economy (CE) policy. Prior to joining the institute, she worked as a postdoctoral researcher at the National Renewable Energy Laboratory (NREL), USA. She was involved in research related to biological hydrogen production from lignocellulosic biomass.

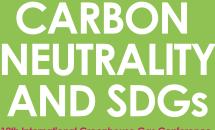








Low Emission Development to Achieve



:12th International Greenhouse Gas Conference