

Third Annual Conference of the
Green Growth Knowledge Platform

Fiscal Policies and the Green Economy Transition: Generating Knowledge – Creating Impact

Venice, 29-30 January 2015



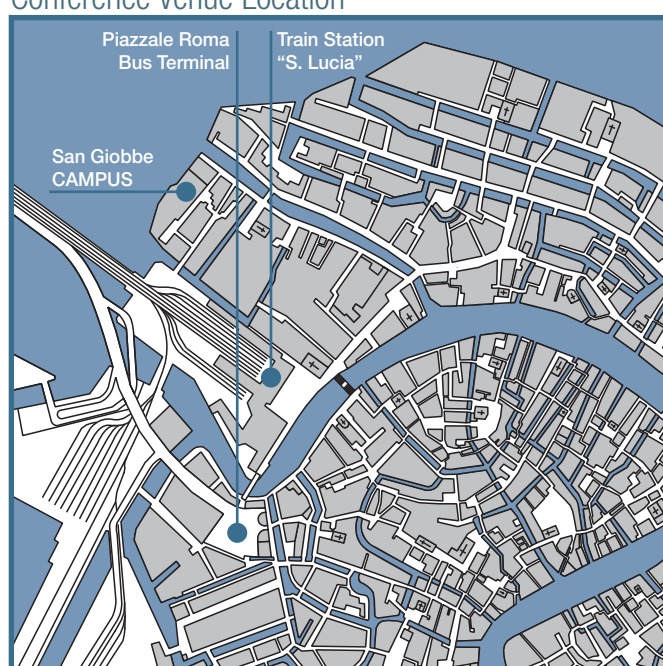
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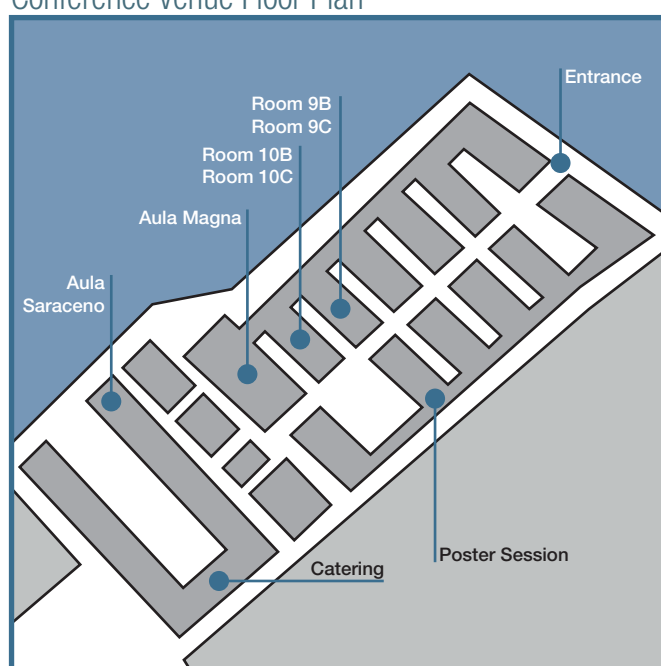
Conference Venue, Floor Plan and Onsite Registration

The conference venue is the Ca' Foscari University of Venice's San Giobbe campus which houses the School of Economics and Business. In the 19th century, the historic buildings on campus hosted the municipal slaughterhouse. There were plans to demolish the complex to build a hospital designed by Le Corbusier but the site was preserved by the project of architects Romeo Ballardini and Vittorio Spigai. They proposed to renew the entire area and industrial buildings with a general plan for the new campus of the faculty of economics. This project entailed the complete preservation of the 19th century slaughterhouse of San Giobbe, with a sequence of building interventions to reintegrate the area with its old buildings and ancient streets, traces and layouts, all of which have important historic value. The structure of the 19th century warehouse was safeguarded and the new parts inside the buildings were designed to have a light metallic structure, different from the compact walls of the ancient buildings; therefore, they are distinct from the older ones and clearly identifiable as new modern internal structures.

Conference Venue Location



Conference Venue Floor Plan



Onsite Registration

Upon arrival at the conference venue, participants should report to the registration desk to receive their materials. Dates and times for onsite registration are listed below.

Date

Wednesday, January 28
Thursday, January 29

Time

14:30-16:00
08:00-09:00

Location

Registration Desk near Aula Magna
Registration Desk near Aula Magna

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About the GGKP

The Green Growth Knowledge Platform (GGKP) was established in 2012 with the belief that knowledge leads to lasting impact and that investing in its generation and dissemination produces concrete results. Founded by the Global Green Growth Institute (GGGI), the Organisation for Economic Co-operation and Development (OECD), the United Nations Environment Programme (UNEP) and the World Bank, the GGKP has since expanded to a global partnership of over 35 international organisations, research institutes and think tanks. Drawing together these partners, the GGKP identifies and addresses major knowledge gaps in green growth theory and practice that directly contribute to policy change.

GGKP Knowledge Partners – A Global Partnership



Welcome



It is our great pleasure to welcome you to the Green Growth Knowledge Platform (GGKP) Third Annual Conference. The Conference is hosted in partnership by our three organisations—Ca' Foscari University of Venice, The Energy and Resources Institute (TERI) and the United Nations Environment Programme (UNEP), on the theme of “Fiscal Policies and the Green Economy Transition: Generating Knowledge – Creating Impact”.

The GGKP was established three years ago, ahead of the Rio+20 Conference, by the Global Green Growth Institute (GGGI), the Organisation for Economic Co-operation and Development (OECD), UNEP and the World Bank. It has since then expanded to include over 35 leading international organisations and research institutes, making it the largest global partnership on green growth and green economy knowledge generation and sharing.



The GGKP Third Annual Conference represents a new kind of international gathering. A hybrid between a policy forum and an academic conference, it draws together top researchers on fiscal policy with leading green growth policymakers and experts to debate and discuss cutting-edge policy options for driving a green economy forward. The key to the success of the conference will be its ability to stimulate interaction and debate across disciplines, reality testing of academic theories and cutting-edge policy proposals with hard-nosed and time-tested policy experience.

To promote the development of new ideas on the conference theme, the GGKP commissioned several research papers to directly contribute to the discussions. In addition, the GGKP received over 200 submissions in response to its call for research abstracts, and selected the top 25% for further elaboration and discussion. These papers form the basis of the Conference parallel sessions.



The Conference's three plenaries frame the broad issue of fiscal policy for green growth through high-level debate on: (1) the unexploited potential of existing tax systems and other structural policies to foster green growth; (2) the fiscal measures and other policy tools available to governments in achieving feasible low-carbon trajectories; and (3) options for catalysing a global research agenda on fiscal policy in support of a green economy transition.

We encourage you to actively engage in this innovative academic-policymaker dialogue by contributing your ideas throughout the conference sessions. We hope you will engage beyond the Conference and join the GGKP's efforts to promote and share knowledge on green growth.

Enjoy the Conference!

Michele Bugliesi
Rector, Ca' Foscari University
of Venice

Rajendra Pachauri
Director General, The Energy
and Resources Institute

Achim Steiner
Executive Director, United
Nations Environment
Programme

Foreword



The idea of green growth emphasizes environmentally sustainable economic progress to promote low carbon, socially inclusive, development. Fiscal policies can play a key role in promoting green growth by improving resource efficiency and reducing environmental risks. However, governments have not exploited this potential as much as they could. Several examples from countries around the world show that fiscal reform is not only desirable, but feasible to achieve greener and more inclusive economic growth. Fiscal measures in the form of taxes, charges, subsidies, incentives and budget allocations can help generate revenue for environmental and social purposes, shift behaviour towards low-carbon activities and stimulate green investments. Fiscal measures can help create incentives for water efficiency and stimulate investments in water supply infrastructure. Fiscal reforms in the form of phasing out support to diesel and petroleum products can save precious resources for pro-poor spending and help reduce air pollution from the transport sector. Fiscal measures can help catalyse resources for investments in new, low-carbon, energy infrastructures and to protect vulnerable countries from climate change impacts.

A green economy is not the outcome of fiscal policy alone. Market imperfections, short sightedness of business and policy leaders, the diffusion of prisoners' dilemma situations, and the cultural gaps on managing national and global commons, all require several kinds of additional policy interventions and enhanced ethical behaviours. Nonetheless, fiscal measures can incentivize our socio-economic systems towards a greener growth by correcting externalities, providing adequate financial resources when under-provided by the private sector, creating the stimuli to converge to an optimal allocation of goods and natural resources. And they can do this in a cost-effective manner. To accomplish its tasks and achieve its objectives, fiscal policy and reforms must be adequately designed. Countries can learn from both sound economic analysis and best practices around the world. This learning and implementation process can be highly facilitated by this Conference. The papers presented in the various contributed sessions and the debates at the invited plenary sessions may improve the way in which governments manage green growth and trigger ideas for new policy interventions.

As Co-Chairs of the Conference Review Committee, it was difficult to select the accepted papers for the conference among the more than 200 submissions received. The very low acceptance rate by the Committee is both a signal of great interest in the topic and the scientific quality of the research. The format of the Conference is also novel. The attempt is not to merely illustrate new research and findings, but rather to stimulate the transformation of these findings and research into useful policy recommendations and blueprints for policy implementation. We are grateful to all members of the Conference Review Committee and all reviewers for their excellent work. We hope the knowledge accumulated through this Conference will help enhance our platform for green growth.

Carlo Carraro
Co-Chair, Advisory Committee,
Green Growth Knowledge Platform;
Department of Economics, University
of Venice



Eshita Gupta
Department of Policy Studies,
TERI University



Agenda Overview

29 January 2015 – First Day of GGKP Annual Conference

8:00-9:00	Registration	
9:00-9:30	Welcome	
9:30-11:00	High-level panel	Fiscal instruments for green growth - going beyond environmental taxation
11:00-11:30	Coffee break	
11:30-13:00	Parallel session	A1: Designing effective green tax reforms
	Parallel session	A2: Creating incentives for investment in clean energy
	Parallel session	A3: Enabling sustainable water management through fiscal measures
13:00-14:30	Lunch	
14:30-16:00	Parallel session	B1: Overcoming obstacles to green fiscal reform
	Parallel session	B2: Fiscal policy reform for an inclusive green economy
	Parallel session	B3: Innovating clean technology for green growth
	Parallel session	B4: Promoting green transportation systems
16:00-16:30	Coffee break	
16:30-18:00	Parallel session	C1: Fiscal measures for climate change action
	Parallel session	C2: Water pricing for sustainable water management
	Parallel session	C3: Effectiveness of fiscal policy in eliciting behavioural change
	Parallel session	C4: Fiscal measures for biodiversity protection and adaptation
18:10-19:00	Shuttle to Hotel Monaco and Grand Canal	
19:00-20:30	Cocktail reception at Hotel Monaco and Grand Canal	

Agenda Overview

30 January 2015 – Second Day of GGKP Annual Conference

9:00-10:30	High-level panel	Complementary structural policies for effective fiscal reform
10:30-11:00	Coffee break	
11:00-12:30	Parallel session	D1: Reforming environmentally harmful subsidies
	Parallel session	D2: Measuring the effectiveness of fiscal reform
	Parallel session	D3: Climate change and fiscal policy
12:30-13:30	Lunch	
13:30-14:15	Poster session	
14:15-15:45	Parallel session	E1: Addressing the implementation of environmental taxes in developing countries
	Parallel session	E2: Complementary policy for promoting clean technology innovation and adoption
	Parallel session	E3: Climate change and the green economy transition
	Parallel session	E4: Effective fiscal policy design for green growth
15:45-16:45	High-level panel	Catalysing a global research agenda on fiscal policy for green growth
16:45-17:00	Closing and awards	

Detailed Agenda

29 January 2015 – First day of conference

8:00-9:00	Registration	
9:00-9:30	Welcome	Room: Aula Magna
Chair:	Carlo Carraro , Co-Chair, Advisory Committee, Green Growth Knowledge Platform	
Speakers:	Michele Bugliesi , Rector, Ca' Foscari University of Venice Ligia Noronha , Director, Division of Technology, Industry and Economics, United Nations Environment Programme Leena Srivastava , Vice Chancellor, TERI University and Executive Director (Honorary), The Energy and Resources Institute	
9:30-11:00	High-level panel Fiscal instruments for green growth - going beyond environmental taxation <i>This high-level panel discussion sets the scene and provides an overall context for the GGKP Annual Conference by triggering debate on some of the unexploited potential of existing tax systems and other structural policies to foster green growth.</i>	Room: Aula Magna
Chair:	Carlo Carraro , Co-Chair, Advisory Committee, Green Growth Knowledge Platform	
Panellists:	Robert Ford , Deputy Director, Country Studies Branch, Economics Department, Organisation for Economic Co-operation and Development Alice Akinyi Kaudia , Environment Secretary, Ministry of Environment and Mineral Resources, Kenya; Co-Chair, Advisory Committee, Green Growth Knowledge Platform Francesco La Camera , Director-General for Sustainable Development, Climate and Energy, Ministry of Environment, Land and Sea, Italy Edward B. Barbier , John S. Bugas Professor of Economics, University of Wyoming	
11:00-11:30	Coffee break	

A1: Designing effective green tax reforms

Room: Aula Magna

This session focuses on how countries can design effective green tax reforms to reduce tax burdens, address social concerns and have a positive environmental impact, with case studies on environmental fiscal reform, carbon taxes and recycling schemes.

Moderator: **David O'Connor**, Chief, Policy and Analysis Branch, Division of Sustainable Development, United Nations Department of Economic and Social Affairs

Panellists: **Kai Schlegelmilch**, Amani Joas: *Fiscal considerations in the design of green tax reforms* (GGKP commissioned paper)
Max Franks, Ottmar Edenhofer, Kai Lessmann: *Why finance ministers might favor carbon taxes, even if they do not take climate change into account*
Jules Schers, Franck Lecocq, Frédéric Ghersi: *Green jobs potential in a skill-constrained economy: analysis of different carbon tax recycling schemes for South Africa*

Discussants: **Jan Olsson**, Environment Ambassador, Ministry of the Environment and Energy, Sweden
Moustapha Kamal Gueye, Policy Specialist - Green Jobs, International Labour Organization

A2: Creating incentives for investment in clean energy

Room: 9B

This session highlights opportunities for increasing investment in renewable energy and energy efficiency, including the appropriate choice and design of instruments to address market barriers, strategic subsidies and household behaviour.

Moderator: **Nikolaus Schultze**, Assistant Director-General, Global Green Growth Institute

Panellists: **Rita Pandey**, Meeta Keswani Mehra: *Role of fiscal instruments in promoting low-carbon technology innovation* (GGKP Commissioned Paper)
Carolyn Fischer, Mads Greager, Knut-Einar Rosendahl: *Strategic subsidies for renewable energy*
Nadia Ameli, Nicola Brandt: *Determinants of households' investment in energy efficiency and renewables – evidence from the OECD survey on household environmental behaviour and attitudes*

Discussants: **Alfonso Roggiero**, Advisor to the Deputy Minister of Environment, Ecuador
Tilman Altenburg, Head of Department, Sustainable Economic and Social Development, German Development Institute / Deutsches Institut für Entwicklungspolitik (DIE)

A3: Enabling sustainable water management through fiscal measures

Room: 10B

This session explores how green growth policies in the water sector can address issues of both quantity and quality by encouraging water-related innovation and investment in green infrastructure, with a specific focus on institutional entrepreneurship, water tariffs and environmental surcharges.

Moderator: **Steven Stone**, Chief, Economics and Trade Branch, United Nations Environment Programme

Panellists: **Pasquale L. Scandizzo**, Ernesto Sanchez Triana: *Rent seeking and institutional entrepreneurship at Colombia's Cauca Valley Corporation*
Derek Eaton: *Paying for clean water and wastewater treatment: an analysis of urban water charging and its contribution to green growth*
Nabil Haque, Sungida Rashid: *Environmental surcharge for heavy polluters in Bangladesh - what are the options for regulated entities under this newly introduced fee?*

Discussants: **Mauricio Mira Pontón**, Head of Office, Green and Sustainable Business Office, Ministry of Environment, Colombia
Bernard Brès, Technopark Director, International Institute for Water and Environmental Engineering

13:00-14:30 Lunch

Detailed Agenda

29 January 2015 – First day of conference

14:30-16:00 Parallel Sessions B

B1: Overcoming obstacles to green fiscal reform

Room: 9B

This session examines how to overcome obstacles to green fiscal reform focusing on the use of mitigation measures for vulnerable firms and low-income households, complementary measures for carbon taxes and political implications.

Moderator: **Ernst Ulrich von Weizsäcker**, Co-President, The Club of Rome (GGKP Advisory Committee Member)

Panellists: **Sirini Withana**: *Overcoming obstacles to green fiscal reform* (GGKP commissioned paper)
Miguel Buñuel: *Implementing a carbon tax in Spain: how to overcome the fear of inflation?*
Stefan Speck: *Environmental fiscal reform and transition to a green economy - a political economy analysis*

Discussants: **Malgorzata Kicia**, Socio-Economic Analyst, DG Environment, European Commission
Nils-Axel Braathen, Principal Administrator, Environment Directorate, Organisation for Economic Co-operation and Development

B2: Fiscal policy reform for an inclusive green economy

Room: 10B

This session shows how effective green policy reform can succeed where other economic models have not and should be considered an integral part of the drive towards eradicating poverty; specific research focuses on carbon pricing, the distributional effects of energy policy and fiscal policy in Indonesia.

Moderator: **Joe Grice**, Executive Director & Chief Economist, Office for National Statistics, United Kingdom (GGKP Advisory Committee Member)

Panellists: **David Klenert**, Gregor Schwerhoff, Ottmar Edenhofer: *The distributional incidence of carbon taxation: the double dividend of redistribution*
Harry Granqvist, David Grover: *Who should pay for clean energy? Distributive justice perspectives*

Discussants: **Anthony Dzadzra**, Head of Tax Policy, Ministry of Finance, Ghana
Eshita Gupta, Assistant Professor, Department of Policy Studies, TERI University

B3: Innovating clean technology for green growth

Room: 10C

This session explores how new technologies and the widespread deployment of existing green technologies can contribute to sustainable development; specific examples focus on optimal energy transition pathways and the impact of uncertainty on innovation.

Moderator: **Raouf Dabbas**, Senior Advisor, Ministry of Environment, Jordan (GGKP Advisory Committee Member)

Panellists: **Prudence Dato**: *Energy transition under irreversibility: a two-sector approach*
Elena Verdolini, Pierre Jockers, Valentina Bosetti: *The impact of policy and uncertainty on innovation in the wind industry: evidence from European countries*

Discussants: **Harald Lossack**, Head of Competence Center, Biodiversity, Forests, Natural Resources, Division Environment and Climate Change, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Joëlle Noailly, Research Associate, Program "Innovation, Sustainable Growth and Technological Change", Graduate Institute

B4: Promoting green transportation systems

Room: 9C

This session highlights the potential for fiscal instruments to reduce environmental impacts from the transport sector, including congestion, air pollution and waste; specific examples focus on taxes, feebates and effective car scrapping schemes.

Moderator: **Kurt Lonsway**, Manager, Environment and Climate Change, African Development Bank

Panellists: **Gunnar Eskeland**, Haakon Lindstad: *Using environmental taxes in the transport sector* (GGKP commissioned paper)
Theodoros Zachariadis, Sofronis Clerides: *Feebates as a fiscal measure for green transportation*
Giovanni Marin, Roberto Zoboli: *The role of non-waste 'product innovation' for waste production through reduced lifetime of goods*

Discussants: **Gallow Sow**, Technical Advisor, Ministry of Environment and Sustainable Development, Senegal
James Seong-Cheol Kang, Senior Program Manager, Global Green Growth Institute

16:00-16:30 Coffee break

Detailed Agenda

29 January 2015 – First day of conference

16:30-18:00 Parallel Sessions C

C1: Fiscal measures for climate change action

Room: 9B

This session highlights a range of fiscal measures that can be used to address climate change, with a specific focus on reform of the EU Emissions Trading System, macroeconomic effects and examples from green fiscal reform in the Netherlands.

Moderator: **Ian Parry**, Principal Environmental Fiscal Policy Expert, Fiscal Affairs Department, International Monetary Fund

Panellists: **Edwin Van der Werf**, Corjan Brink, Herman Vollebergh, Martijn Verdonk: *Quantifying the effects of reforming the EU Emissions Trading System. A computable general equilibrium analysis*
Jan Siegmeier, Linus Mattauch, Ottmar Edenhofer: *Climate policy enhances efficiency: a macroeconomic portfolio effect*
Herman Vollebergh: *About dykes and windmills: learning from Dutch green fiscal reform*

Discussants: **Malik Amin Aslam Khan**, Global Vice President, IUCN/Chair Green Growth Initiative
Hilen Meirovich, Climate Change Lead Specialist, Inter-American Development Bank

C2: Water pricing for sustainable water management

Room: 10B

This session explores the options for water pricing and how they can contribute more substantively to the sustainable financing of water resource management functions; specific examples focus on water pricing and security in urban and rural areas.

Moderator: **Rene van Berkel**, Chief, Cleaner and Sustainable Production Unit, United Nations Industrial Development Organization

Panellists: **Mike Young**: *Fiscal instruments and water scarcity* (GGKP commissioned paper)
Dionisio Pérez-Blanco: *Water charging and water saving in agriculture. Insights from a revealed preference model in a Mediterranean basin*

Discussants: **Hussein Abaza**, Senior Advisor to the Minister of Environment, Egypt
Yimeng Liu, Assistant Professor, Beijing Normal University, School of Economics and Resource Management

C3: Effectiveness of fiscal policy in eliciting behavioural change

Room: 10C

This session illustrates how behavioural, social and technological changes are crucial components of any green growth strategy; specific research focuses on the acceptance of environmental policy and the adoption of technology.

Moderator: **Elke Weber**, Jerome A. Chazen Professor of International Business, Columbia Business School (GGKP Advisory Committee Member)

Panellists: **P.K. Viswanathan**, Chandra S. Bahinipati: *Determinants of adopting and accessing benefits of micro-irrigation: a case study from North Gujarat, India*
Estefania Santacreu Vasut, J. Vives-Rego: *Beliefs in technology and support for environmental taxes: an empirical investigation*
Iva Zverinová, Eva Kyselá, Milan Ščasný: *What makes climate change mitigation policies acceptable by public? A review of influential factors*

Discussants: **Mark Overman**, Senior Policy Officer, Ministry of Infrastructure and Environment, Netherlands
Achim Halpaap, Senior Manager, Environment and Green Development, United Nations Institute for Training and Research

C4: Fiscal measures for biodiversity protection and adaptation

Room: 9C

This session examines how economic incentives can shift consumption and production patterns regarding biodiversity-based goods and services; specific examples focus on ecological fiscal transfers in Brazil, adaptation expenditures and applications to the Convention on Biological Diversity.

Moderator: **Pushpam Kumar**, Chief, Ecosystem Services Economics Unit, Division of Environmental Policy Implementation, United Nations Environment Programme

Panellists: **Nils Droste**, Guilherme Lima, Peter May: *Ecological fiscal transfers in Brazil - incentivizing or refinancing conservation?*
Elisa Delpiazso, Gabriele Standardi, Ramiro Parrado: *Fiscal implications of climate change impacts and adaptation policies in EU Mediterranean countries: an application to sea level rise*
Markus Lehmann: *The Convention on Biological Diversity and environmental fiscal measures*

Discussants: **David Huberman**, Policy Advisor, Economics and Environment, Swiss Federal Department of Foreign Affairs
Martina Bozzola, Environmental Economist, Trade and Environment, International Trade Centre

18:10-19:00 Shuttle to Hotel Monaco and Grand Canal

19:00-20:30 Cocktail reception at Hotel Monaco and Grand Canal

Detailed Agenda

30 January 2015 – Second day of conference

9:00-10:30	High-level panel Complementary structural policies for effective fiscal reform <i>This high-level panel explores the broader framework in which green fiscal measures are deployed. More specifically, panellists will discuss the tools and fiscal instruments available to governments to identify, implement and fund efficient and feasible low-carbon trajectories.</i>	Room: Aula Magna
Moderator:	Cletus Springer , Director, Department of Sustainable Development, Organization of American States	
Panellists:	Simon Upton , Director, Environment Directorate, Organisation for Economic Co-operation and Development Marianne Fay , Chief Economist, Climate Change Group, World Bank	
Discussants:	Nick Robins , Co-Director, Inquiry into the Design Options for a Sustainable Financial System, United Nations Environment Programme Jan Olsson , Environment Ambassador, Ministry of the Environment and Energy, Sweden	
10:30-11:00	Coffee break	

Detailed Agenda

30 January 2015 – Second day of conference

11:00-12:30 Parallel Sessions D

D1: Reforming environmentally harmful subsidies

Room: Aula magna

This session focuses on how subsidy reform can be crucial for moving towards a more sustainable development path; specific research focuses on the impact of subsidies on carbon emissions and investment as well as the distributional impact of energy subsidy reform.

Moderator: **Karsten Steinfatt**, Counsellor, Trade and Environment Division, World Trade Organization

Panellists: **Debashis Chakraborty**, Sacchidananda Mukherjee: *Does fiscal policy influence per capita CO₂ emission? A cross-country empirical analysis*
Shelagh Whitley: *At cross purposes: subsidies and climate compatible investment*
Sebastian Renner, Jann Lay, Michael Schleicher, Nunung Nuryartono: *Poverty and distributional impacts of energy subsidy reform in Indonesia*

Discussants: **Hendra Setiawan**, Senior Assistant to the Minister for Economics and Sustainable Development, Ministry of Environment, Indonesia
Ronald Steenblik, Senior Trade Policy, Organisation for Economic Co-operation and Development

D2: Measuring the effectiveness of fiscal reform

Room: 9B

This session discusses the strengths and weaknesses of green fiscal reform including a proposed framework for assessing effectiveness, research on the net effect of fuel taxes on global emissions and fiscal instruments being used in Asia.

Moderator: **Ann Harrison**, Professor of Multinational Management, The Wharton School, University of Pennsylvania (GGKP Advisory Committee Member)

Panellists: **Gilbert Metcalf**: *A conceptual framework for measuring the effectiveness of green fiscal reforms* (GGKP commissioned paper)
Hari Bansha Dulal, Rajendra Dulal, Pramod Kumar Yadav: *Delivering green economy in Asia: the role of fiscal instruments*
Thomas Sterner, Carolyn Fischer, Jared Carbone: *The net emissions effects of fuel taxes*

Discussants: **Aldo Ravazzi Douvan**, Senior Adviser for Green Growth, Sustainable Development and Environmental Fiscal Reform, DG Sustainable Development, Climate and Energy, Ministry of Environment, Land and Sea, Italy
Miguel G. Breceda Lapeyre, Coordinator General for Green Growth, Instituto Nacional de Ecología y Cambio Climático, México

D3: Climate change and fiscal policy

Room: 10B

This session explores the use of fiscal instruments to mitigate and adapt to climate change; specific examples focus on carbon permit trading between the EU and China, and linkages between climate policy, pensions and public finance.

Moderator: **Mohan Munasinghe**, Founder Chairman of the Munasinghe Institute of Development (GGKP Advisory Committee Member)

Panellists: **Claire Gavard**, Niven Winchester, Sergey Paltsev: *Limited sectoral trading between the EU Emissions Trading Scheme and China*
Emmanuel Combet, Jean Charles Hourcade: *Carbon tax, pensions and public deficits: the hidden cost of the compartmentalization of expertise*
Linus Mattauch, Jan Siegmeier, Max Franks, David Klenert, Anselm Schultes, Ottmar Edenhofer: *A public finance perspective on climate policy: six interactions that may enhance welfare*

Discussants: **Hoseok Kim**, Senior Research Fellow, Korea Environment Institute
Ingrid Jegou, Manager, Global Platform on Climate Change, Trade and Sustainable Energy, International Centre for Trade and Sustainable Development

12:30-13:30 Lunch

13:30-14:15 Poster session

E1: Addressing the implementation of environmental taxes in developing countries**Room: 9B**

This session explores how environmental taxation can be an efficient and effective way to promote green growth in developing countries, with specific case studies on green tax schemes from South America, Namibia and Vietnam.

Moderator: **Gunnar Köhlin**, Director, Environment for Development

Panellists: **Camila Gramkow**: *Fiscal policy towards green growth in emerging economies: the case of Brazil*
Carlos Chávez, Hugo Salgado: *Using taxes to deter illegal fishing in ITQ systems*
Minh Nguyen Anh: *Implication of Vietnam's environmental tax law in the green economy transition process*

Discussants: **Jay Ram Adhikari**, Under Secretary (Technical) and Bureau Member, Intergovernmental Platform on Biodiversity and Ecosystem Services, Ministry of Science, Technology and Environment, Nepal
Zhan Feng Dong, Associate Professor, Chinese Academy for Environmental Planning

E2: Complementary policy for promoting clean technology innovation and adoption**Room: 10B**

This session discusses the need for complementary policy options to drive innovation and investment in clean technology; specific examples focus on renewable energy in OECD countries, wind power in China and the global adoption of fluorescent lamps.

Moderator: **Kevin Urama**, Managing Director/Head of Research, Quantum Global Research Lab AG (GGKP Advisory Committee Member)

Panellists: **Francesco Vona**, Elena Verdolini: *Drivers of investments in cleaner energy*
Yang Liu, Taoyuan Wei: *Epidemic, rank, stock and order effects in renewable energy diffusion: a model and empirical evidence from China's wind power sector*
Suchita Srinivasan: *The light at the end of the tunnel: the impact of policy on the global diffusion of fluorescent lamps*

Discussants: **José Palacín**, Senior Economic Affairs Officer, United Nations Economic Commission for Europe

E3: Climate change and the green economy transition**Room: 10C**

This session focuses on different ways policymakers can stimulate the transition toward a carbon-neutral economy, with specific case studies on climate change public expenditure, the Republic of Korea's Green New Deal and California's Cap-and-Trade program.

Moderator: **Sam Bickersteth**, Chief Executive Officer, Climate and Development Knowledge Network

Panellists: **Erika Jorgensen**: *Climate change public expenditure and institutional reviews: linking fiscal policies to the green economy transition*
Jonas Sonnenschein, Luis Mundaca: *Fiscal expansion as decarbonization policy. South Korea's Green New Deal 2009-2013*
Merritt Hughes: *Designing for structural change: modification to the California Cap-and-Trade Program*

Discussants: **Marcos Eugenio da Silva Sapateiro**, National Focal Point for Sustainable Development, Ministry for Coordination of Environmental Affairs, Mozambique
Massimiliano Riva, Policy Specialist, Innovative Finance, United Nations Development Programme

E4: Effective fiscal policy design for green growth**Room: 9C**

This session examines different instruments that can be used to promote sustainable and more inclusive growth, with specific research that focuses on environmental fiscal reform, trade in green goods and services, and partnerships.

Moderator: **Paul Steele**, Chief Economist, International Institute for Environment and Development

Panellists: **Zaid Asi**: *Environmental fiscal reform*
Jetske Bouma, Ezra Berkhout: *How do partnerships in international cooperation contribute to inclusive green growth*
Jaime De Melo, Mariana Vijil: *The critical mass approach to achieve a deal on green goods and services: What is on the table? How much to expect?*

Discussants: **Mezgebu Amha Terefe**, Director, Macro-economic Management Directorate, Ministry of Finance and Economic Development, Ethiopia
Kurt van Dender, Head of Unit, Senior Tax Economist, Centre for Tax Policy and Administration, Organisation for Economic Co-operation and Development

Detailed Agenda

30 January 2015 – Second day of conference

15:45-16:45 High-level panel **Room: Aula Magna**

Catalysing a global research agenda on fiscal policy for green growth

In this final high-level discussion, panellists will reflect on the key ideas to emerge from the conference, with a focus on how to further a global agenda on fiscal policy in support of a green economy transition. They will also discuss lessons learned, knowledge gaps identified and ways to better promote collaborative and coordinated research.

Moderator: **Elliott Harris**, Director, United Nations Environment Management Group Secretariat

Panellists: **Yvo de Boer**, Director-General, Global Green Growth Institute
Ligia Noronha, Director, Division of Technology, Industry and Economics, United Nations Environment Programme
Thomas Sterner, Professor of Environmental Economics, University of Gothenburg
Ian Parry, Principle Environmental Fiscal Policy Expert, Fiscal Affairs Department, International Monetary Fund

16:45-17:00 Closing and awards **Room: Aula Magna**

Steven Stone, Chief, Economics and Trade Branch, United Nations Environment Programme
Yvo de Boer, Director-General, Global Green Growth Institute
Carlo Carraro, Co-Chair, Advisory Committee, Green Growth Knowledge Platform



GREEN GROWTH

Knowledge Platform

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Website

www.greengrowthknowledge.org

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