

# PROGRAMME

# 3GGF

**Global Green Growth Forum**  
11-12 October 2011, Copenhagen

**Challenging conventional  
thinking - Finding green  
avenues to growth**



## OFFICIAL CORPORATE PARTNERS



## 3GF PARTNERS

### Governments



### Corporations



### Institutional



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Copenhagen 11-12 October 2011

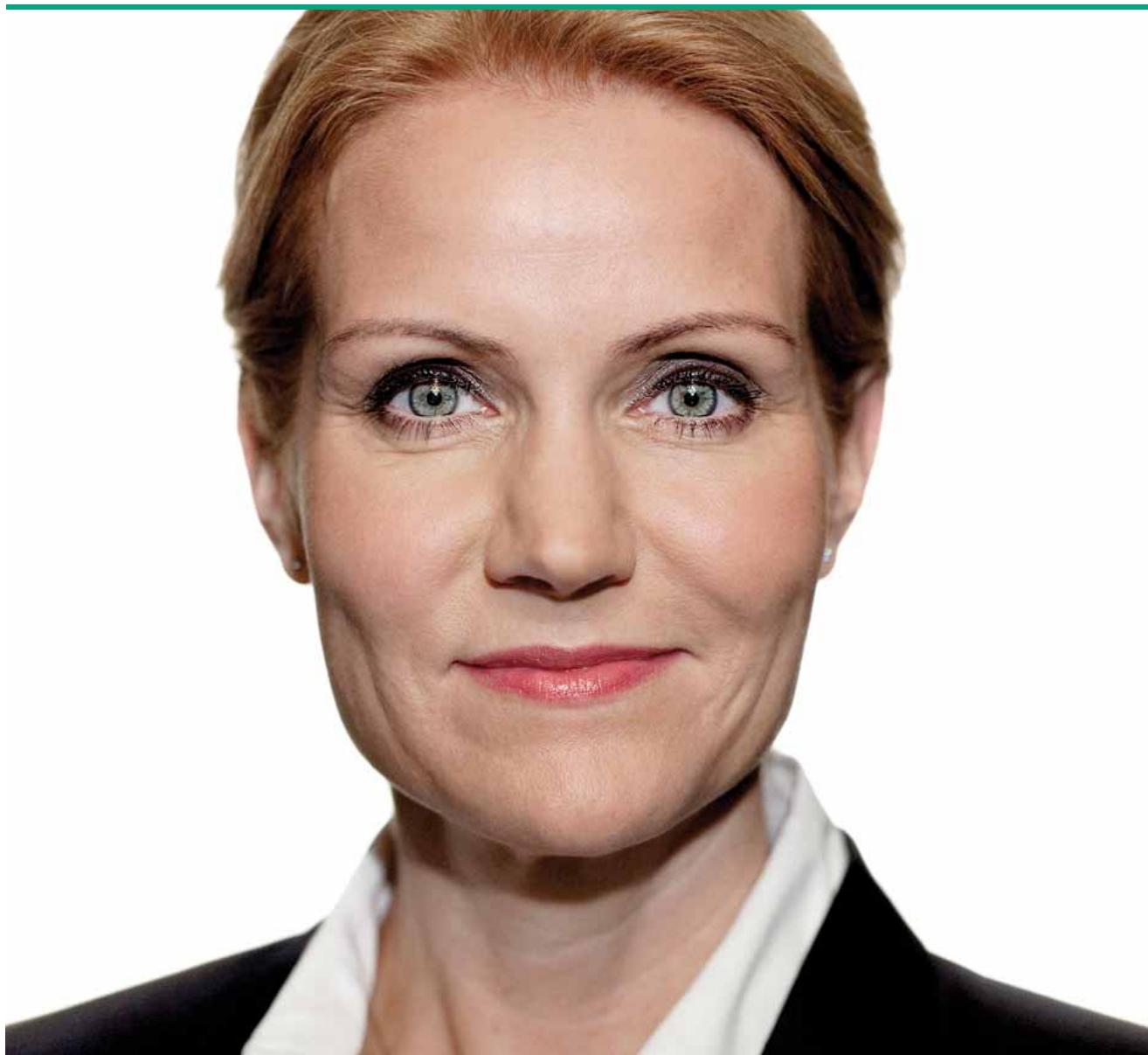
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## 3GF ORGANIZERS



### Event Partner





# Seizing the opportunity for global cooperation on green growth

At a time when the economic crisis is at the top of the international agenda, your decision to attend 3GF underlines the potentials of pursuing global green growth.

Greening the economy offers major growth opportunities as well as environmental and social benefits, including the creation of new green jobs, and is vital to solving common global challenges such as combating climate change and promoting sustainable development.

We will not succeed in this endeavour unless we work together across nations and across public and private sectors. In that sense, global green growth is like a windmill - it will only be efficient and powerful when all its components are in place and when the right wind conditions are there to keep the blades rotating. While the private sector must continue their innovative work and scale up green production, governments must create the framework conditions for a green transition. To speed up this global windmill, 3GF offers an action-oriented platform for global public-private interaction that can stimulate green growth.

3GF brings together globally leading businesses, governments and experts to collectively identify substantial green growth opportunities. The Forum is not only a framework for sharing experiences and lessons learned. It is a platform for looking ahead and taking the first steps towards new global initiatives that will enhance the green agenda in and across all sectors. It is a platform for frank and confidential dialogue between business leaders, investors and decision-makers on the underlying imperatives of green growth.

I hope that you will actively use 3GF and all the possibilities that it offers. Let us seize the opportunity to renew and accelerate global cooperation on green growth to the benefit of all. That is our common responsibility.

The Danish Prime Minister / **Helle Thorning-Schmidt**

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# Purpose, programme format and desirable outcomes

## PURPOSE

The purpose of the Global Green Growth Forum (3GF) is to spur green growth by exploring, demonstrating and stimulating better public-private collaboration. 3GF provides participants with a unique platform for interaction across governments, the private sector and key institutions to collectively realise the potential for growth during the transition to a green economy.

Participants, on an invitation-only basis, are provided with the opportunity to engage in concrete and in-depth discussions around best practice initiatives and policy issues that can help accelerate green growth. In addition, The Forum will act as an interactive platform to develop ideas and opportunities for joint action and enable strategic and practical learning across sectors, countries and projects at a national and international level. The aim is to deliver a series of actionable insights and initiatives that will inform and progress policy.

The Forum consists of three interacting levels: parallel strategy sessions, parallel panels and plenaries. Strategy sessions will facilitate in-depth discussions and learning in smaller groups with a focus on actionable outcomes. Key practical insights from the parallel strategy sessions will feed into the broader strategic discussions during the panels and plenaries to ensure that overarching policy debates are informed by hands-on knowledge and experience with regard to the barriers, opportunities and solutions for advancing green growth initiatives.

## PROGRAMME FORMAT

**Parallel strategy sessions** - A selected set of concrete or emerging public-private initiatives lie at the heart of the 3GF programme. The strategy sessions on 11 October 2011 will focus on a wide range of energy, transport and finance projects that dominate today's green growth agenda. On 12 October 2011, thematically cross-cutting initiatives on public procurement and water will be featured in two parallel sessions. Some of these initiatives have existed for years; others are just emerging. Either way, the aim is to accelerate green growth by addressing the issues of scale and pace, and collectively identifying the potential barriers and opportunities.

**Parallel panels** - Four parallel panels on energy, transport, finance and trade / international markets will link the specific initiatives discussed during strategy sessions to more general debates and strategizing around policy, finance and regulation.

**Plenary sessions** - Four plenary sessions will cast a broader view and offer insights from both the panel sessions and the strategy sessions during the Forum. The four sessions will address: 1. Building an Enabling Environment to Catalyze Green Growth; 2. National Action on Green Growth; 3. International Action on Green Growth; and 4. Catalyzing Ambitious Green Growth: An Agenda for Collaborative Action.

## OUTCOME

The Chairman's summary will conclude the Forum, and serve as a basis along with more specific recommendations from individual strategy sessions in subsequent high-level political processes and forums. Denmark and its governmental 3GF partners will feed key outcomes and conclusions into high-level intergovernmental processes, negotiations and forums. As upcoming EU president, Denmark will take recommendations from 3GF to Rio+20 and to the EU's green growth agenda. In addition, Korea and Mexico, as strategic partners, will help link outcomes to the G20. The Forum will present and promote key recommendations at the UNFCCC COP17 in Durban, late in 2011, and at adjoining events, such as the World Climate Summit 2011.



3GF is coordinating with the Clean Energy Ministerial (CEM) and the World Economic Forum to strengthen public-private collaboration on clean energy as an important component of green growth. Selected outcomes and recommendations from the 3GF sessions will flow into the third meeting of the CEM in London in April 2012, as well as its related initiatives, which will in turn help to inform the strategic focus of 3GF 2012. See message from US Secretary of Energy, Dr. Steven Chu.

Key recommendations and outcomes from 3GF, along with a profile of featured public-private partnerships, will be communicated in a post 3GF 2011 Report.

**Media policy:** Unless otherwise stated, all discussions take place under the Chatham House rule. Facilities for press meetings are available upon request. After the Forum, a press conference will sum up key points.

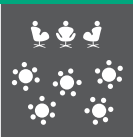
PROGRAMME 11 October 2011

Master of Ceremony: **Aimée Christensen** / Partner / World Climate Ltd / CEO / Christensen Global Strategies

08:00	<b>REGISTRATION, COFFEE</b> <i>(Moltkes Palæ)</i>	
09:00	<b>Opening Plenary Session</b> - open to the press  <b>H.R.H. The Crown Prince of Denmark</b> Opening statement by <b>Ms. Helle Thorning-Schmidt</b> / Prime Minister / Denmark Opening remarks by <b>Ms. Young Sook Yoo</b> / Minister of Environment / Republic of Korea Opening remarks by <b>Mr. Juan Rafael Elvira Quesada</b> / Minister of Environment / Mexico  Venue: The Plenary Hall	
09:30	<b>Plenary debate I: Building an Enabling Environment to Catalyze Green Growth</b> - open to the press  Green growth is increasingly featuring on the policy agenda and in corporate board rooms. How central is green growth to countries' and businesses' economic prospects, what are the barriers to realising the opportunities, and how can business work best with governments in overcoming these barriers?  Moderator: <b>Ms. Rachel Kyte</b> Vice President / World Bank  Venue: The Plenary Hall	  Panelists: <b>Mr. Raila Odinga</b> / Prime Minister / Kenya <b>Mr. Angel Gurría</b> / Secretary-General / OECD <b>Ms. Connie Hedegaard</b> / Commissioner / European Commission <b>Mr. Niels B. Christiansen</b> / CEO / Danfoss
10:45	<b>Keynote address:</b> <b>Can growth be green? The role of the UN in the green economy</b> - Open to the press  <b>Mr. Ban Ki-moon</b> / Secretary-General / United Nations  Venue: The Plenary Hall	
11:05	<b>COFFEE BREAK</b>	
11:30	<b>Parallel strategy sessions I:</b>  (Six parallel sessions) Each of the 6 strategy sessions takes as its point of departure one or more concrete initiatives, offering participants the opportunity to share their knowledge and experience and gain from insights of others. Moderators will ensure a firm focus on bridging identified barriers with workable solutions, and devote particular attention to the questions of scale and pace in the transition to the green economy.	
	<b>Energy &amp; Finance</b>  <b>Energy Efficiency</b> Facilitator: <b>Mr. Jeremy Oppenheim</b> / Director / McKinsey & Company  Venue: The Venezia Chambers  <b>Renewable Energy</b> Facilitator: <b>Mr. Bo Diczfalusy</b> / Director / International Energy Agency  Venue: The Dronninggaard Chambers  <b>Financing Green Growth</b> Facilitator: <b>Jonathan Maxwell</b> / Co-Founder / Sustainable Development Capital LLP.  Venue: The Green Chambers	<b>Transport</b>  <b>EV Test Markets</b> Facilitator: <b>Mr. Lew Fulton</b> / Senior Transport Energy Specialist / IEA & <b>Thomas Færgeman</b> / Director, Concito  Venue: The Gyldenløve Chambers  <b>Bridging the Fuel Gap in the Transport Sector</b> Facilitator: <b>Mr. Nader Mousavizadeh</b> / CEO / Oxford Analytica  Venue: The Abildgaard Chambers  <b>Sustainable Biofuels for Aviation</b> Facilitator: <b>Mr. Jim Lane</b> / Chairman / American Biofuels Council  Venue: Moltke's Chambers
13:00	<b>WORKING LUNCH</b> <i>(in strategy sessions)</i>	
13:00	<b>Parallel strategy sessions</b> <i>(continued)</i>	

14:30

BREAK



14:45

Parallel panel sessions I:

Energy

What will it take to make a cost effective green shift in the energy sector? How can policymakers help drive and support a rapid transition to sustainable energy sources?

Moderator:  
**Mr. Jeremy Oppenheim** / Director / McKinsey & Company

Panelists:  
**Mr. Bo Diczfalussy** / Director for Sustainable Energy Policy and Technology / International Energy Agency  
**Mr. Eelco van Heel** / CEO / Rockwool  
**Ms. Joan MacNaughton** / Senior Vice President / Power and Environment Policies / Alstom  
**Dr. Urban Keussen** / Senior Vice President / E.ON  
**Mr. Nicholas Archer** / Vice President / Suzlon Energy

Venue: The Green Chambers

Sustainable Transport

How and how quickly can we get from A to B in transport, that is: from habits and huge vested interests in the current fossil fuel based transport system to a sustainable transport system?

Moderator:  
**Mr. Nader Mousavizadeh** / CEO / Oxford Analytica

Panelists:  
**Mr. Shai Agassai** / Founder and CEO / Better Place  
**Mr. Robert T. Do** / CEO / Solena  
**Mr. Zhongyi Deng** / Vice President & CTO / Shenzhen BAK Battery Co., Ltd.  
**Mr. Charles Wang** / CEO / Green Tech Automotives

Venue: Moltke's Chambers

16:00

COFFEE BREAK



16:30

Plenary debate II:  
National Action on Green Growth – open to the press

National interests, policies and economies will be key to advancing global green growth in practice. What is leading national practice in advancing long term green growth planning, the right enabling environment, and the effective interactions between public and private players?

Moderator:  
**Mr. Kandeh Yumkella** / Director-General / UNIDO

Panelists:  
**Mr. Meles Zenawi** / Prime Minister / Ethiopia  
**Mr. Mehmet Simsek** / Minister of Finance / Turkey  
**Mr. Ole Sohn** / Minister for Business and Growth / Denmark  
**Mr. Jae-do Moon** / Deputy Minister of Knowledge Economy / Republic of Korea  
**Mr. Luciano Coutinho** / President / Brazilian Development Bank (BNDES)

Venue: The Plenary Hall

18:00 Bus transfer to dinner venue: National Gallery of Denmark (Statens Museum for Kunst, Sølvgade 48-50, DK-1307 Copenhagen K)

18:30

DINNER AT THE NATIONAL GALLERY OF DENMARK *(Statens Museum for Kunst)*

Host: **Ms. Helle Thorning-Schmidt** / Prime Minister / Denmark  
Dinner speaker: **Mr. Jeremy Rifkin** / President / The Foundation on Economic Trends



08:00	<div><div>Side event: The Resource Revolution - Meeting the Needs of the Next 3 Billion Middle Class Consumers - Open to the press</div><div><div>This session will share new analysis from McKinsey on the priorities to enhance economic growth, improve resource productivity and address climate change over the next 20 years.</div><div>Speaker: <b>Mr. Jeremy Oppenheim</b> / Director / McKinsey &amp; Co</div><div>Venue: The Green Chambers</div></div></div>		
08:45	<div>COFFEE</div>		
09:00	<div><div>Plenary debate III: International Action on Green Growth - Open to the press</div><div><div>International rules of the game, from trade and investment agreements to carbon markets and sector or product-level initiatives and standards, will shape the pace and scale of the global transition to green growth. How can inter-governmental efforts, including specific forums and processes, be complemented by private actions and public-private collaboration to best deliver the right international enabling environment?</div><div><div>Moderator: <b>Richard Samans</b> / Executive Director / Global Green Growth Institute</div><div><div>Panelists: <b>Mr. Villy Søvndal</b> / Minister of Foreign Affairs / Denmark <b>Ms. Christiana Figueres</b> / Executive Secretary / UNFCCC <b>Mr. Jim Leape</b> / Director General / WWF International <b>Mr. Ditlev Engel</b> / CEO / Vestas</div></div><div>Venue: The Plenary Hall</div></div></div></div>		
10:30	<div>COFFEE BREAK</div>		
11:00	<div><div><div>Parallel panel session II: Financing Green Growth</div><div><div>What new policy interventions, risk sharing models or types of public-private cooperation are needed to mobilize private capital for green growth? What steps can financiers and policymakers take to ensure that investment in green growth increases in scale and speed?</div><div><div>Moderator: <b>Michael Liebreich</b> / Chief Executive / Bloomberg New Energy Finance</div><div><div>Panelists: <b>Mr. Simon Brooks</b> / Vice President / European Investment Bank <b>Mr. Torben Möger Pedersen</b> / CEO / PensionDanmark <b>Ms. Sylvia Kreibiehl</b> / Vice President / Deutsche Bank <b>Mr. James Wardlaw</b> / Managing Director / Goldman Sachs</div></div><div>Venue: The Green Chambers</div></div></div></div></div>	<div><div><div>Parallel panel session II: Trade/ International Markets</div><div><div>How can more open markets be created while at the same time favor more sustainable trade? A contradiction in terms or a needed green new deal?</div><div><div>Moderator: <b>Ricardo Melendez-Ortiz</b> / Chief Executive / International Centre for Trade and Sustainable Development</div><div><div>Panelists: <b>Ms. Pia Olsen Dyhr</b> / Minister for Trade and investment / Denmark / <b>Ms. Thandi Tobias-Pokolo</b> / Vice Minister for Trade and Industry / South Africa, TBC <b>Mr. Simon Upton</b> / Director / Environment Directorate / OECD <b>Mr. Gary Clyde Hufbauer</b> / Reginald Jones Senior Fellow / Peterson Institute for International Economics <b>Mr. Jukka Pertola</b> / CEO / Siemens / Denmark</div></div><div>Venue: Moltke's Chambers</div></div></div></div></div>	<div><div><div>Parallel strategy sessions II:</div><div><div>Crosscutting Issues</div><div><div><b>Water Resource Group</b></div><div><div>Facilitator: <b>Mr. Dominic Waughray</b> / Senior Director / World Economic Forum</div><div>Venue: The Abildgaard Chambers</div></div><div><div><b>Green Public Procurement</b></div><div><div>Facilitator: <b>Mr. Claude Martin</b> / Board Member / IISD</div><div>Venue: The Dronninggaard Chambers</div></div></div></div></div></div></div>



14:00

Plenary debate IV: Catalyzing Ambitious Green Growth:  
An Agenda for Collaborative Action – open to the press



Scale and speed are underlying imperatives for the global transition to a green growth pathway. Based on discussions over the two days, what are the most promising transformational opportunities, and how can policy-makers and business leaders effectively collaborate together in making them happen?

Moderator:  
**Mr. Simon Zadek** / Senior Fellow / Global Green Growth Institute

Panelists:  
**Mr. Martin Lidegaard** / Minister for Climate, Energy and Buildings / Denmark  
**Mr. Francisco Barnés Reguriro** / President / National Institute of Ecology / Mexico  
**Dr. Soogil Young** / Chairman of the Presidential Committee of Green Growth / Republic of Korea  
**Mr. Peter Brabeck-Letmathe** / Chairman of the Board / Nestlé

15:30 -  
16:00

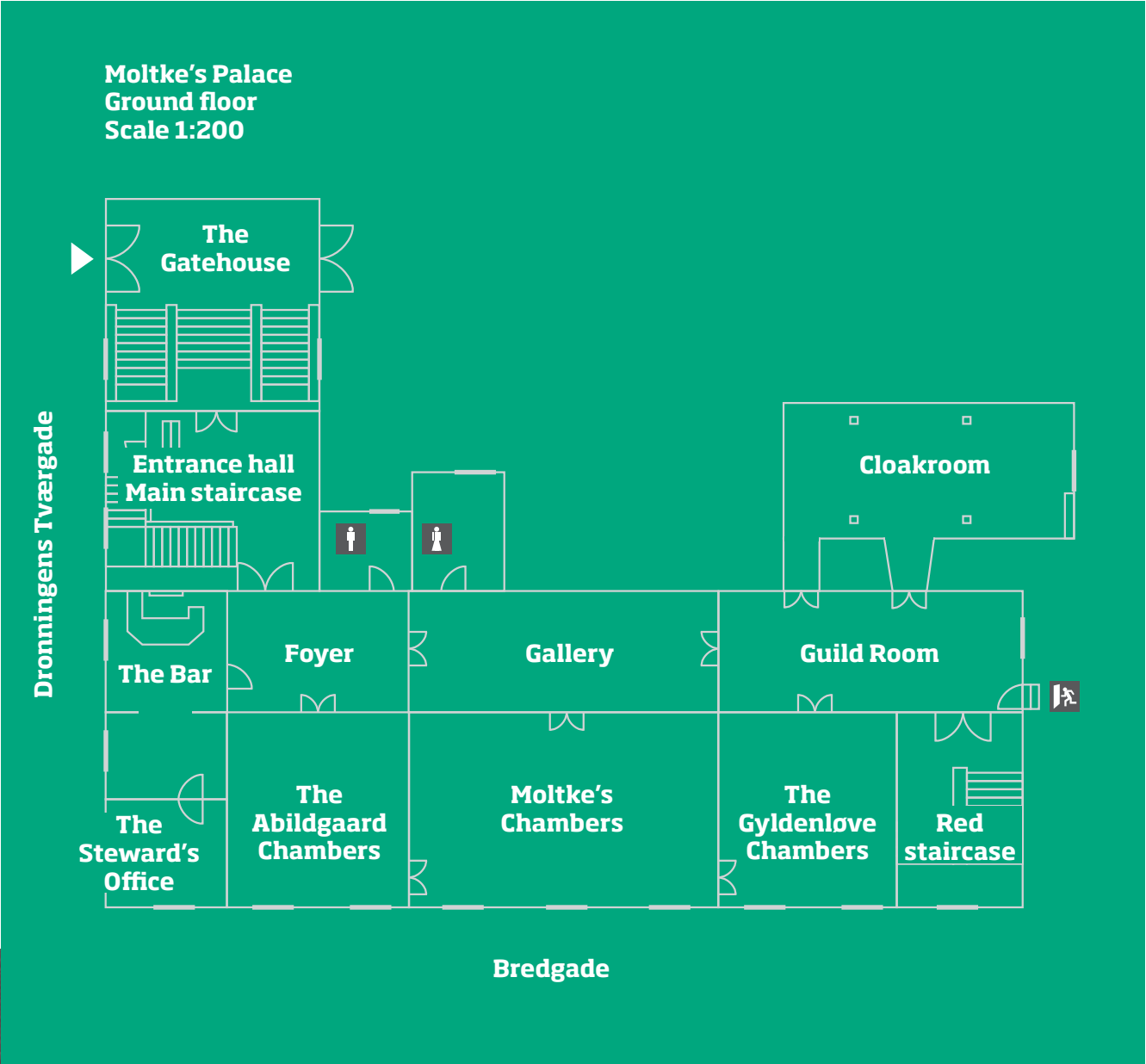
Closing Remarks – open to the press

**Mr. Villy Søvndal** / Minister for Foreign Affairs / Denmark / Denmark  
**Dr. Young Soogil** / Presidential Committee on Green Growth / Republic of South Korea  
**Mr. Juan Rafael Elvira Quesada** / Minister of Environment / Mexico

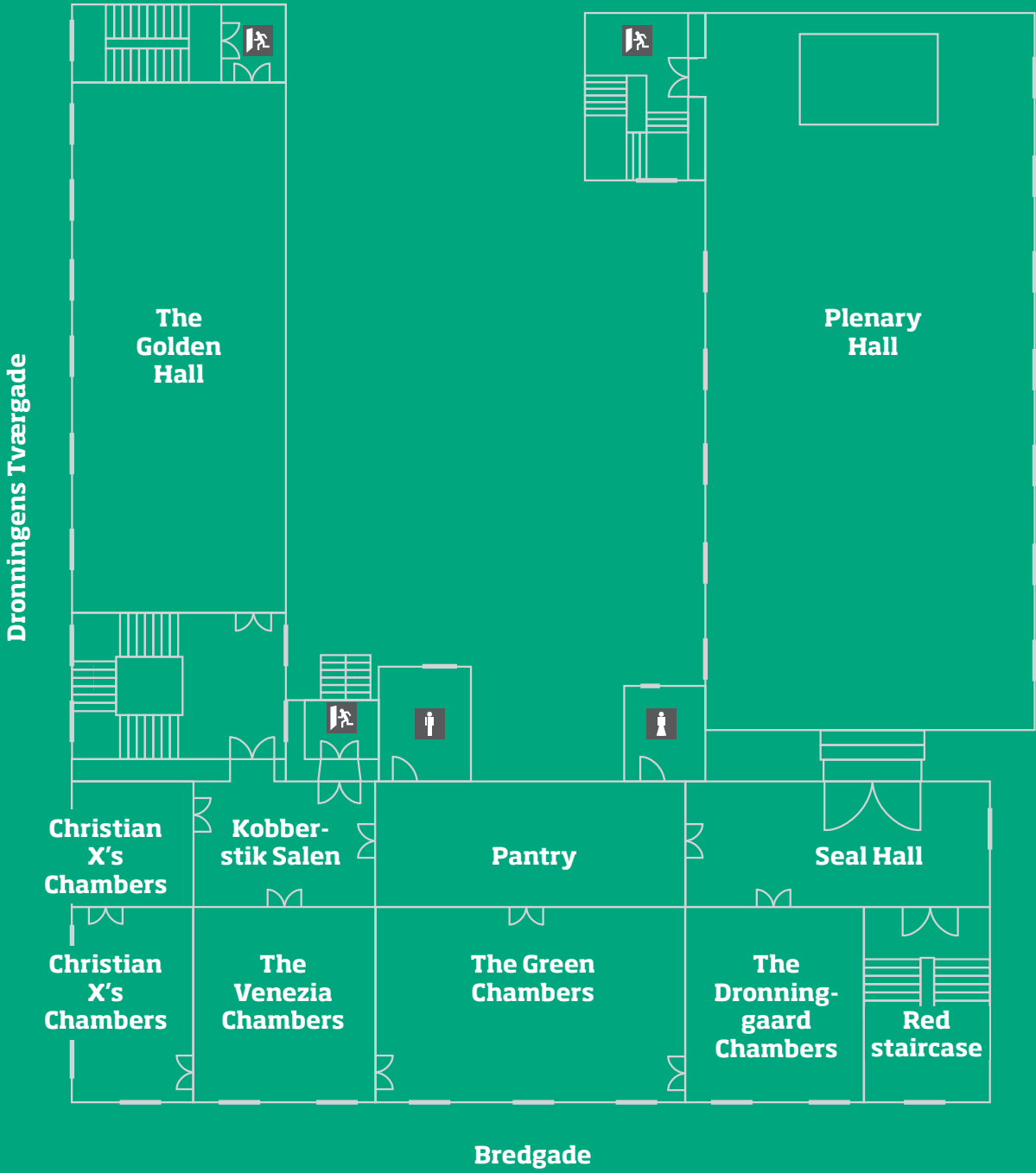
16:15 3GF Press conference



FLOOR PLAN



Moltke's Palace  
First floor  
Scale 1:200



# The Role of Public-Private Cooperation in Enabling Green Growth



by Richard Samans, Executive Director, GGGI

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Economists understand economic growth to be a function of changes in the supply of labor and capital, the efficiency by which these and other factor inputs such as natural resources are utilized and technological change. Since an economy's workforce and capital stock tend to be relatively stable or predictable over time, its long-term growth potential (as opposed to short-term growth prospects, which can be significantly influenced by fluctuations in investment, savings, net exports, etc.), is thought to be particularly dependent on gains in factor efficiency and innovation, or what economists call total factor productivity or TFP.

Green growth is a relatively new concept that has been characterized by the OECD as "fostering economic growth and development, while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies." It is closely related to the concept of a green economy, which UNEP defines as one in which "growth in income and employment should be driven by public and private investments that reduce carbon emissions and pollution, enhance energy and resource efficiency, and prevent the loss of biodiversity and ecosystem services." *Toward a New Paradigm of Economic Growth*

In any discussion of economic growth, an important caveat is in order: growth is not an end in itself. The fundamental objective of economic policy is not growth but rather broad-based progress in living standards. After all, growth in GDP per capita is a measure of mean, not median, progress. Moreover, it is only a partial measure insofar as it captures the production of most but not all goods and services, omitting or undervaluing some of those that improve a society's health, security, environment, etc. GDP growth is an imperfect proxy for the pace and breadth of progress in living standards. But while it may not be sufficient for economic success, it certainly is necessary. In all but very wealthy societies, major socioeconomic progress is simply not possible without rising employment, incomes and wealth. Thus, both the quantity and quality (or composition) of growth matter. The ultimate objective of economic policy must be to generate what might be called BIG growth --- i.e., strong GDP growth that is also Balanced in the sense of being resilient and stable rather than prone to disruptive booms and busts; Inclusive in the sense of generating broad-based social gains rather than exacerbating inequality and social exclusion; and Green in the sense described by the OECD, UNEP and others.

Green growth is therefore best understood as one part of a three-part quest to enlarge the very conception of economic growth --- to create a new economic model that produces faster but also wider, more resilient and more environmentally sustainable economic progress.

Construction of this new paradigm begins with recognition that the quantitative and qualitative aspects of growth require equal and integrated attention by policymakers. This may sound obvious and uncontroversial in the aftermath of a systemic international financial crisis and during a period of rising income inequality and widespread ecological degradation. However, the challenge such parallelism

poses to economists and policymakers should not be underestimated, as it represents a departure from the way the Economics has been taught and economic policy has been practiced for over a generation. While important, measures that promote the allocative efficiency of markets and quantitative side of growth, (e.g., deregulation, privatization, trade liberalization and fiscal balance) have been systematically overemphasized relative to the three more qualitative parameters of BIG growth, sometimes to catastrophic effect, as illustrated by the recent sharp rise in unemployment, poverty and social upheaval in some countries and deterioration of fisheries and fresh water supplies in still others. Rhetorical recognition of the need for a new growth model may now be widespread, as evidenced by G20 leader communiqués and similar pronouncements by heads of the major international economic institutions. But actual change in policy and pedagogy has only just begun. What is needed next is a more specific investigation of how and when the promotion of financial stability, social inclusion and environmental sustainability can complement and even accelerate allocative efficiency and top-line GDP growth. What specific policies and initiatives promote win-win,

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BIG growth outcomes, and how can governments and other stakeholders most effectively pursue them? Such an investigation in respect of green growth is the very purpose of the Global Green Growth Institute and its partner, the Global GreenGrowth Forum.

### Strategies to Enable Green Growth: Historical Precedents

Green growth's connection to GDP growth is comparatively straightforward, since it is fundamentally concerned with increasing the efficiency by which economies utilize one of their most important factor inputs --- natural resources --- through the application of existing and innovation of new resourceefficient technologies and practices. As a resource productivity agenda, green growth is intrinsically a total factor productivity agenda - i.e., a pure allocative efficiency play that also promotes social well being by reducing the environmental externalities that often accompany the exploitation of natural resources in the form of pollution, biodiversity loss, etc.

What strategies are available to government and other actors to more fully exploit green growth's winwin, quantitative-qualitative growth potential? The answer is: the same techniques market economies have historically employed to promote economic growth more generally. These include:

- Compensating for market failures and providing public goods
- Enhancing competition by reducing information asymmetries and otherwise leveling the playing field
- Reducing investment uncertainty by creating predictable rules, regulations and macroeconomic conditions
- Reducing barriers to entry such as prohibitive initial costs or insufficient experience or data
- Reducing barriers to economies of scale such as fragmented or inconsistent information or standards

There is a long and geographically diverse history of government policy and public-private cooperation along these lines aimed at improving the enabling environment for private investment in industries deemed to have significant potential to generate large productivity gains for the economy as a whole. Far from picking winners and losers, these interventions seek to build the underlying infrastructure of new markets by removing obstacles that distort market signals or deter the entry of a wider range of competitors and investors. They create the playing field, the rules and sometimes the basic inputs necessary to support a major expansion of investment and competition in areas considered to have a broader potential economic and social payoff. Examples include:

**Compensating for market failures:** Public investment in railroads, highways and ports; laws compelling primary and secondary attendance and prohibiting child labor; provision of agricultural extension services and subsidies for land grant universities; public investment in basic health, physics and other R&D; tax preferences for orphan drugs and private pension savings, etc.

**Reducing information asymmetries and leveling the playing field:** public-private cooperation in the development of financial accounting and corporate disclosure standards (IASB, FASB, etc.); publicly-funded independent anti-corruption investigative agencies; nutritional labeling guidelines; vehicle and appliance efficiency standards; etc. Reducing investment uncertainty: establishment of independent central banks; creation of antitrust and intellectual property laws; creation of corporate governance rules and regulations in such areas of limited liability, minority shareholder protections, bankruptcy and securities registration; creation of government-sponsored lending agencies for small businesses and homeowners; etc.

**Reducing barriers to entry:** tariff preferences for imports from least developed countries; subsidized industrial credit to new entrants in capital intensive industries (e.g., Airbus in the 1980s); public procurement rules regarding small and minority-owned businesses; etc.

**Reducing barriers to scale:** national regulation and international coordination of radio and cellphone frequencies; multistakeholder cooperation in the establishment of common internet protocols (ICANN); public procurement programs for fuel-efficient vehicles; etc.

Interventions of this nature have traditionally played an important role in catalyzing the early growth and eventual scaling of young industries that went on to contribute widespread productivity improvements. Some of these strategies were literally transformational. Most required a substantial degree of public-private cooperation to design and implement.

### International Economic Architecture for Green Growth: Creating Synergy between Top-down and Bottom-up Progress through Public-Private Cooperation

The core purpose of GGGF is to stimulate a deliberate international thought process about the kinds of government and public-private approaches of this nature that have the potential to help trigger similar waves of progress in key industries related to green growth, and to catalyze like-minded coalitions of willing and able industry and government actors to take them forward.



# FORUM DISCUSSION PAPER

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The projects and initiatives chosen for discussion at this inaugural Global Green Growth Forum correspond closely to these historical precedents. For example:

- The International Partnership for Energy Efficiency Cooperation's utility-scale energy efficiency and end-user efficiency metrics initiatives that will be discussed in an Energy Strategy Session are aimed at reducing barriers to scale by expanding common information and creating a level playing field.
- The Sustainable Energy Trade Agreement and Green Procurement initiatives that will be discussed in two panel sessions on Day 2 are aimed at reducing barriers to entry and scale by creating positive tariff and regulatory preferences and removing perverse disincentives.
- The Aviation Fuels and Electric Vehicle Test Market initiatives that will be discussed in respective Transport Strategy Sessions on Day 1 are aimed at reducing barriers to entry and scale by pooling research and regulatory efforts, respectively, across a number corporate and governments.
- The Water Resources Group and South African Renewables Initiative to be discussed in the Water and Finance Strategy Sessions are aimed at overcoming market failures and reducing investment risks and uncertainties through the pooling of public and private resources.

These initiatives fall squarely within the tradition of the governmental and public-private strategies that catalyzed growth in the railroad, television, internet, accounting, securities, airline and countless other industries that revolutionized productivity in their day. They and other initiatives like them represent the building blocks of a public-private enabling architecture for green growth that would help to accelerate the transition of manufacturing, construction, energy, water and agricultural systems to a much more resource-efficient mode of production.

In recent years, international environmental governance in general and the UN climate change negotiations in particular have focused on building top-down political architecture, i.e., national environmental commitments and international environmental goals. The purpose of GGGF and the public-private cooperation activities of GGGI is to encourage the international community to construct a complementary economic architecture --- a bottom-up set of results-oriented mechanisms and institutions that create the underlying market infrastructure which can drive faster progress toward green growth by removing some of the risks, uncertainties and market imperfections that impede the engagement of additional private resources and actors into a wider competition for resource-related efficiency gains.

Because it is focused on enhancing productivity growth, this public-private, green growth agenda has an inherent economic justification. Of course, it also has a compelling environmental justification, but this is a co-benefit rather than the main, let alone unique, rationale. By advancing progress on the ground, it could also have the political co-benefit of improving the chemistry of international negotiations, demonstrating that the United Nations' objective of "a green economy in the context of sustainable development" is indeed possible and improving the readiness of countries to implement whatever climate, biodiversity, fisheries, water and other treaties diplomats agree to whenever they agree to them.

2012 is shaping up to be a crucial year for both international economic and environmental cooperation, with crises and corresponding opportunities looming on both fronts. In addition, we do not have the luxury of time to engineer a greener growth model. Investments in power, industrial and construction systems over the next ten years will lock in environmental consequences for the next forty. As governments prepare for the United Nations Rio+20 conference and expiration of the Kyoto Protocol's first commitment period next year, they would do well to recognize the potential benefit of working with the private sector and other stakeholders to build this bottom-up, enabling economic architecture, viewing it as a natural complement to the traditional focus of international environmental governance on top-down legal frameworks and institutions. However, this will require non-state actors to be treated as genuine partners rather than stakeholders requiring mere consultation in a few conference side events.

## **Conclusion: Key Questions for Discussion at the Global Green Growth Forum**

Judging from the history of industries as diverse as accounting, information technology, aviation, electricity and asset management - all of which have had a far-reaching impact on economic productivity - public-private cooperation has a vital role to play in enabling the acceleration and scaling of industries related to green growth. Accordingly, we encourage participants in the Global Green Growth Forum to share perspectives on such questions as:

- What kinds of investment uncertainties, fragmentation of information and markets, barriers to entry or scale or market imperfections they believe stand in the way of more rapid expansion of green products and services?
- How could these obstacles be remedied through governmental, public-private or intra- or crossindustry cooperation?
- How might you or your organization consider contributing in a concrete fashion to the success of one or more of the ten initiatives highlighted in this year's Forum?
- How should these and other bottom-up frameworks and initiatives be integrated into the broader political agenda for and governance of international economic and environmental cooperation?





## Parallel strategy sessions I:

### Energy Efficiency

Tuesday 11 October 11:30 – 14:30

Venue: The Venezia Chambers

#### Session Description

Improving energy efficiency, like increasing resource or factor productivity more generally, contributes to economic growth by freeing up scarce consumer and company resources for other productive uses. Developed in cooperation with the International Partnership for Energy Efficiency Cooperation (IPEEC) and the Clean Energy Ministerial Secretariat, this strategy session will engage public and private stakeholders in a discussion about how to maximize the impact of the large-scale efficiency efforts led by both utilities and end-users.

#### Topic 1: Utility-led Efficiency Initiatives

This part of the strategy session will focus on how energy utilities can deliver energy efficiency goods and services, and how regulators can mobilize utilities to do so - questions that were the subject of the new intergovernmental initiative, the Global Cooperation on Utility Delivery of Energy Efficiency (GCUDEE), launched through the International Partnership for Energy Efficiency Cooperation (IPEEC).

#### Topic 2: End-User Harmonized Efficiency Standards and Metrics

This part of the session will explore how IPEEC's IPEEI initiative (Improving Policies through Energy Efficiency Indicators) could be augmented by adding a rolling process of public-private cooperation aimed at developing and promulgating a growing number of voluntary international metrics and standards for key industrial and consumer equipment and products.

Facilitator

**Jeremy Oppenheim** / Director / McKinsey & Co.

Discussion Leaders / Presenters

Topic 1: Utility-led Efficiency Initiatives

**Rick Duke** / Deputy Assistant Secretary for Climate Policy / US Department of Energy

**Dr. Urban Keussen** / Senior Vice President Technology and Innovation / E.ON

**Grayson Heffner** / Energy Efficiency Advisor / International Energy Agency

Topic 2: End-User Harmonized Efficiency Standards and Metrics

**Amit Bando** / Executive Director / IPEEC

**Niels B. Christiansen** / CEO / Danfoss

**Kim KeungHwan** / EVP and CTO / Samsung C&T

**Jens Laustsen** / Adviser / Rockwool

**Ray Pinto** / European Environment Sustainability Lead / Microsoft EMEA



## Parallel strategy sessions I:

### Renewable Energy - Incorporating Variable Renewable Energy without Compromising Reliability

Tuesday 11 October 11:30 – 14:30

Venue: The Dronninggaard Chambers

#### Session Description

Developed in cooperation with the Clean Energy Ministerial (CEM) process, this session will discuss the complementary roles of government, quasi-government entities, private institutions and regulators in enabling the integration of increasing amounts of variable renewable energy technologies (VREs) in power systems. Beyond the technical considerations, the integration of variable renewable energy can be complicated in many geographies by power systems' multi-layered governance and operational, and financial structures.

Integration of renewables and the advent of smart grids in particular present unique opportunities for enhancing green growth through the creation of new markets and reduction of environmental externalities. This dialogue aims to engage a diverse group of key stakeholders from across the power sector to elicit creative solutions to the grid integration challenge. It will focus on policy and regulatory strategies for governments, operational strategies for system operators and utilities, and the long-term innovation agenda.

#### Participants will explore the following questions:

- What lessons can be learned from existing efforts to integrate significant amounts of VREs?
- What additional types of case studies are needed on power system integration of significant amounts of VREs?
- What data, tools and analysis are needed to support planning, implementation and operations of systems with significant amounts of VREs?
- What is needed to get from innovation to implementation of international smart grid solutions?

Facilitator

**Bo Diczfalussy** / Director / Directorate of Sustainable Energy Policy and Technology / International Energy Agency

Key note address

**Martin Lidegaard** / Minister of Climate, Energy and Buildings / Denmark

Discussion Leaders / Presenters

**Hans Enocson** / National Executive for the Nordic countries / General Electric

**Joan MacNaughton** / Senior Vice President / Power and Environmental Policies Alstom

**Bernard J. Bulkin** / Chair of the Office of Renewable Energy Deployment / DECC / UK

**Nena Stoilkovic** / VP / Business Advisory Services / IFC



## Parallel strategy session I:

### Financing Green Growth

Tuesday 11 October 11:30 - 14:30

Venue: The Green Chambers

#### Session Description

Governments, international organisations and private actors are joining forces to mobilise and apply public and private finance to accelerate the scaling up of renewables and other green infrastructure developments. This strategy session will consider emerging partnership in this field. In particular, the UK Government has launched an international initiative, the Capital Markets Climate Initiative (CMCI) for this purpose, and at the national level, South Africa is poised to launch its own international partnership, the South African Renewables Initiative (SARI), aiming to mobilise international support to finance the incremental costs of a scaled up approach to renewables development, thereby achieving the critical mass needed to deliver green growth benefits.

The strategy session will examine the following questions through broad discussion and through the analysis of the South Africa experience:

1. How can private finance for green growth be most effectively leveraged through the optimal blend of policy, institutional innovation and public finance.
2. How can ambitious national green growth leadership be effectively supported through international co-operation.

By bringing together major policymakers and key private actors, the strategy session will examine the above questions with a few to achieving the following:

1. How can national initiatives, such as the South African Renewables Initiative, be enhanced and multiplied to drive green growth more effectively forward.
2. How can international public private initiatives, such as the CMCI, aiming to catalyze collaborative financing for green growth, most effectively support ambitious national initiatives.

#### Facilitator

**Jonathan Maxwell** / Chief Executive / Sustainable Development Capital

#### Discussion Leaders / Presenters

**Tamsyn Barton** / Director General of Operations outside the EU and Candidate Countries / European Investment Bank

**Alex Cameron** / Head of ICF / Department of Energy and Climate Change / UK Government

**Gerhard Fourie** / Director / Green Industries / DTI / Government of Republic of South Africa

**Hella Cheikhrouhou** / Director / Energy / Environment and Climate Change / African Development Bank Group

**Saliem Fakir** / WWF South Africa

**Rachel Kyte** / Vice President for Sustainable Development / The World Bank

**Michael Liebreich** / CEO, Bloomberg New Energy Finance

**Sharmala Naidoo** / Project Manager / South African Renewables Initiative

**Torben Möger Pedersen** / CEO / Pension Danmark

**Thandi Tobias-Pokolo** / Deputy Minister of Trade and Industry / Government of Republic of South Africa

**James Wardlaw** / Managing Director / Goldman Sachs

**Silas Zuma** / CEO South Africa / Suzlon





## Parallel strategy session I:

### EV Test Markets

Tuesday 11 October 11:30 – 14:30

Venue: The Gyldenløve Chambers

#### Session Description

With the backdrop of global warming and the high energy commodity prices there is widespread consensus that EVs (electric vehicles) will have a dominant market position in the future. However, it is still an open question when EVs significantly can and will penetrate the market. Consequently, the strategy session will focus on initiatives that can enhance the leading EV test markets and transform them into real, full-scale markets. The session will address the following questions:

1. How are the efforts to define a common global standard most effectively advanced, and which intermediate strategies should in the meanwhile be considered, e.g. to ensure easy consumer access to all standards?
2. Should the planning and financing of infrastructure be made by the public sector or the private sector - or a combination of both? What relevant distinctions should be made between public, private and semi-private infrastructure?
3. How can public-private partnerships and new business models such as leasing advance EVs market penetration and what other policy initiatives might be considered?

The strategy session is developed in coordination with the Clean Energy Ministerial (CEM)\* and the World Economic Forum. Participants in the session will be car manufacturers and energy system authorities from the following potentially leading markets: China, Denmark, France, Germany, USA, and the Republic of Korea. Also representatives from the EU Commission and the major energy companies will be invited. Prior to the session itself, a short overview of the present policy initiatives in the participating test markets will be outlined and a short teleconference will be conducted before the session in order to establish common ground and prioritize among the various themes.

#### Facilitators

**Mr. Lew Fulton** / Electric Vehicle Initiative / part of the CEM (Clean Energy Ministerial)

**Mr. Thomas Færgeman** / Director / Concito

#### Discussion leaders / Presenters

**Mr. Thomas Orsini** / Renault EV Business Development Director / part of World Economic Forum Sustainable Transport Ecosystem initiative

#### Core participants

**Mr. Charles Wang** / CEO / Green Tech Automotives

**Dr. Lim Tae Won** / Director / Fuel Cell Vehicle Group / Hyundai Motors

**Mr. Johan Peeters** / VP Global Sales and Marketing / ABB

**Mr. Deng Zhongyi** / Vice President & CTO / Shenzhen BAK Battery Co

**Ms. Lærke Flader** / Managing Director / Danish EV Alliance

**Mr. Knud Pedersen** / Vice President / DONG Energy

**Mr. Niels-Anders Nielsen** / Head of Centre for Green Transport / Danish Transport Authority



## Parallel strategy session I:

### Bridging the fuel gap in the transport sector

Tuesday 11 October 11:30 – 14:30

Venue: The Abildgaard Chambers

#### Session Description

Providing sustainable, affordable and efficient fuels for transport is imperative to bridge the projected increase in demand for fuel by 2030 and the as of yet insufficient supplies of both fossil and non-fossil fuels, as well as to tackle climate change, ensure energy security, and promote sustainable mobility at a global scale. The IEA predicts that “the introduction and widespread adoption of new vehicle technologies and fuels, along with some shifting in passenger and freight transport to more efficient modes, can result in a 40% reduction in CO<sub>2</sub> emissions below 2005 levels” (Transport, Energy and CO<sub>2</sub>: Moving toward Sustainability, 2009).

This strategy session will focus on the question of how to bridge the future fuel gap in transport through a combined approach of fuel efficiency improvements, the use of sustainable fuels, and modal shifts. It aims to facilitate the dissemination of knowledge and insights between stakeholders representing different transport modes about the improvements that can be made when both the sustainability of the fuel is improved, and the fuel is subsequently used efficiently.

#### Part 1

The first part of the session will examine fuel efficiency improvements in the global fleet of light duty vehicles (LDVs) through the deployment of existing fuel efficiency technologies in the internal combustion engine as a key component to addressing the expected future growth in transport emissions. The Global Fuel Economy Initiative (GFEI) will be showcased as a successful example of a private-public partnership engaged in such an approach.

#### Part 2

While fuel efficiency is an essential part of the short-term answer to bridging the fuel gap, alternative, sustainable fuels and modal shifts will play a vital role in a long-term sustainable transport scenario. The second part of the session will therefore also discuss the complementary role played by sustainable fuels and modal shifts. The session will split into three breakout discussion groups, which will examine the general principles and issues pertaining to sustainable fuels, fuel efficiency and modal shifts. Moderators of the discussion groups will be able to share their expertise and experience through a short introductory presentation, which will then be followed by discussion on questions related to major, cross-modal issues, such as technology, user practices and commercial pathways to market. Relevant questions include:

- What is the role of the public-private partnerships, and how do we get the right mix of international institutions, private sector and government representatives involved and active?
- What policy and market conditions are necessary to ensure success in bridging the future fuel gap, and what are the major obstacles that need to be overcome?
- How can fuel efficiency, sustainable fuels and modal shifts simultaneously lead to and be part of a growth scenario, globally and on a country level?
- How can we ensure maximum transfer of clean vehicle and sustainable fuel technology to emerging markets?

#### Facilitator

**Nader Mousavizadeh** / CEO / Oxford Analytica

#### Discussion leaders / Presenters

**Duleep Gopalakrishnan** / Managing Director / EEA-ICF

**Sheila Watson** / Director of Environment / FIA Foundation and Executive Secretary / GFEI

**Mark Radka** / Chief of the Energy Branch / Division of Technology / Industry and Economics / United Nations Environment Programme

**Mads Madsen** / Head of Corporate Positioning / Novozymes



## Parallel strategy session I:

### Sustainable Biofuels for Aviation

Tuesday October 11, 11:30 – 14:30

Venue: Molkte's Chambers

#### Session Description

Since the inception of the aviation industry in the early 20th century, airlines have had one choice of energy supply for their flights – Jet A-1, or kerosene, made from fossil fuels. In the last couple of years, this situation has changed dramatically in view of environmental issues as well as security of supply. Therefore, rigorous testing and evaluation is being performed on biofuels for aviation. In 2011, the first passenger flights took off using a mix of biofuel and traditional jet fuel. Many of the technical hurdles have been overcome and with approval of specifications for use in aviation, the new fuel is safe to use in this highly-cautious industry. The main challenge that now remains is the commercialisation of this new energy source for aviation.

The global air transport sector accounts for around 2% of the world's carbon dioxide. In 2008, leaders in the industry joined forces to support a strategy for reducing those emissions based on four pillars – new technology, operational efficiencies, improvements in infrastructure and global economic measures. Biofuels have the potential to reduce emissions by up to 80% compared to the use of normal jet fuel. With air transport providing vital tourism and trade and social connections in many parts of the world, the cost of current fossil fuels being highly volatile and with no viable alternative to liquid fuel for aircraft in the near future, the aviation sector is understandably interested in the possibility of using sustainable biofuels.

Kick-starting this critical cleantech sector has the capacity to create new jobs and reduce dependence on imported oil. It represents a very important element by which the aviation sector can achieve a sustainable future.

Facilitator

**Jim Lane** / Editor & Publisher / Biofuels Digest / Chairman / American Biofuels Council

Discussion leaders / Presenters

**Paul Steele** / Executive Director / Air Transport Action Group (ATAG)

**Craig Binetti** / Nutrition & Health President / DuPont

**Robert T. Do** / CEO / Solena

**Laurel Harmon** / Vice President / Government Relations / LanzaTech



## Parallel strategy session II:

### Water Resources Group Securing Green Growth by unravelling the water-food-energy nexus

Wednesday 12 October 11:00 - 12:30

Venue: The Abildgaard Chambers

#### Session Description

The world's food, water and energy resources are already experiencing significant stress or shortfalls - and yet in the next 20 years, demand for these resources is projected to increase significantly as populations, economies and consumption rates grow. The world appears ill equipped for the changes, investments and trade-offs that will be required to meet that demand. Meeting our future food, water and energy needs therefore presents a very real growth conundrum.

The highly interlinked nature of these issues is particularly challenging, as it requires integrated solutions, coordinated among diverse stakeholders who often lack the incentives or institutional structures required for effective action. A common thread running through this nexus is water.

The Water Resources Group (WRG) is an innovative and neutral public-private platform for collaboration on water. It mobilizes stakeholders from the public and private sector, civil society, centres of academic expertise, bilateral development agencies and multilateral development banks. Working at the invitation of governments, the WRG engages in fact-based, analytical approaches and establishes in-country capacity to help governments catalyse sustainable and comprehensive water sector transformation to support their economic growth aspirations. In this high-level session, various stakeholders from businesses and governments involved in WRG will explore cases of innovative public-private-expert partnerships that contributed to transform in-country water sectors. Further opportunities for practical solutions to improve in-country water management through multistakeholder platforms will be explored during the session. The following questions will be discussed:

1. Why is water a critical enabler to growth?
2. How can multistakeholder platforms catalyze water transformation at the country- or regional-levels?
3. What innovation opportunities exist to catalyze water transformation around the world and foster good practices?

Facilitator:

**Dominic Waughray** / Senior Director / Head of Environmental Initiatives / World Economic Forum

Key note address

**Mohammed Al Najjar** / Minister of Water and Irrigation of the Hashemite Kingdom of Jordan

**Christian Friis Bach** / Minister for Development Cooperation / Denmark (tbc)

Discussion Leaders / Presenters

**D. Satya Murty** / Principal Secretary to Government / Water Resources Department / Government of Karnataka / India

**Usha Rao-Monari** / Global Head of Water / Global Infrastructure and Natural Resources Department / International Finance Corporation (IFC)

**Peter Brabeck-Letmathe** / Chairman of the Board / Nestlé; Chairman of the Water Resources Group



## Parallel strategy sessions II:

### Green Public Procurement

Wednesday 12 October 11:00 – 12:30

Venue: The Dronninggaard Chambers

#### Session Description

This strategy session will establish the catalytic role of Green Public Procurement (GPP) in scaling up green growth and explore the case for an international initiative on green public procurement coordinated by IISD.

For a government to fulfil its mandate to society, it must undertake large spending to simultaneously supply its own administration, while also providing infrastructure and services for the community at large. The case for green public procurement – when governments buy goods and commission works and services that are low carbon, life-cycle efficient and socially cohesive – is that it creates large scale and long term demand. The sheer scale of public procurement is what makes it an important catalyst for green growth. Governments spend almost half their budgets on procurement – from stationary, furniture and computers to the commissioning of roads, railways, power plants, schools and hospitals. All this equates to substantial investment that can account for 13% to 20% of GDP in industrialised countries, and more elsewhere – 35% in South Africa, 43% in India, 46% in Costa Rica, 47% in Brazil, 49% in Mauritius and 52% in Ghana. There is also growing evidence, from Denmark, South Korea, USA, Canada, the EU, and Brazil to show that green public procurement strategies can catalyse green growth.

This strategy session will explore the following questions:

1. What are the salient features of prevailing GPP policies and programmes that have resulted in green growth? How have they achieved critical mass in terms of crowding in both large and small businesses? How can an international initiative work to replicate best practice?
2. How do procurers determine ‘what is green’? How valuable are eco labels and standards (product, technical and management standards) in this regard?
3. GPP is about achieving ‘value of money’ across the whole life cycle of goods, services, works and utilities. Issues can arise if greener goods and services cost more to purchase than their less sustainable substitutes. How did prevailing GPP programmes overcome this issue?
4. Cash strapped governments are increasingly turning to hybrid public-private finance initiatives (also referred to as public private partnerships or P3s) to crowd in private capital and expertise to deliver essential public services such as healthcare, utilities, housing and education. Environmental and social safeguards are yet to be systemically embedded in these initiatives. Can an international initiative address this policy gap?

Session facilitator and discussion leaders

Facilitator

**Dr Claude Martin** / Board member of IISD and former Director General of WWF International

Discussion Leaders / Presenters

**Mr Sachin Joshi** / Director / Confederation of Indian Industry /  
Centre for Excellence on Sustainable Development /

**Ms Sussanna Zammataro** / Deputy Director and Head of Environment / International Road Federation

**Mr Daniel Wiener** / CEO / Global Energy Basel / CEO / Echos / Board Member /  
Basel Agency for Sustainable Energy (BASE) /

**Sarah O’Brien** / Communications Director / Electronic Product Environmental Assessment Tool (EPEAT)

**Rogério Menezes De Mello** / Secretary of State / State Secretariat for Water / Sao Paulo / Brazil



SIDE EVENT:

**The Resource Revolution;  
Meeting the Needs of the Next 3 Billion Middle Class Consumers**

Wednesday 12 October 08:00-08:45  
Speaker: **Mr. Jeremy Oppenheim** / Director / McKinsey & Co  
Venue: The Green Chambers

Over the next 20 years, 3 billion new middle class consumers will enter the economy (mainly in China). This economic transformation is happening at a historically unprecedented rate - the pace of growth in India and China is 10 times as fast as when Britain went through its industrial revolution, and at a scale more than 100 times larger. A "resource revolution" is needed if the world is to tackle the challenges/opportunities of meeting the needs of these new consumers and lifting the next 2-3 billion people out of poverty, and to do so in a way that reduces the risk of irreversible loss of natural capital and addresses climate change.

New analysis by the McKinsey Global Institute finds that to meet future demand, a step change is needed both in supply and in productivity of resources: we will need additional investment in new supply as well as greater capture of identified productivity opportunities across the value chain in land, water, energy and materials. The research looks at the complex interaction effects between resources and has found that there are about 10-15 resource productivity measures that move the needle against the challenges mentioned above. Unlocking this potential will be hugely challenging. Because the opportunity is so highly fragmented, decision makers in the public and private sectors need to prioritize where to put their limited capital, and where to focus political will and institutional leadership.



## MESSAGE FROM DR. STEVEN CHU / US SECRETARY OF ENERGY

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**The Secretary of Energy**  
Washington, DC 20585  
October 2011

Dear Governments, Sponsors, and Attendees of 3GF 2011:

I wish to applaud and encourage your efforts to spur green growth through public-private dialog. I believe that such cooperation is critical if we are to realize the potential of clean technologies and provide the full range of services our growing global economy needs while minimizing environmental impacts.

Global green growth encompasses vibrant and inclusive economic development that promotes healthy environments and improves human well-being. The way we produce and consume energy plays a central role in the global economy and our environmental future. Recognizing the need to promote smart policies that channel private capital into clean energy, last year I hosted the first Clean Energy Ministerial (CEM). More than 20 major economies, representing more than 90 percent of global clean energy investment, participated. The CEM aims to accelerate the transition to an efficient and clean energy economy through high-level policy dialogue; cooperation to drive technical progress across a variety of clean energy fields; and engagement with the private-sector.

The goals of 3GF and the CEM are in many ways complementary. I am pleased to note that we, along with our partner, the World Economic Forum (WEF), are cooperating to strengthen public-private engagement as a key element of both our agenda. CEM Secretariat staff from the U.S. Department of Energy have worked with the Danish government, the Global Green Growth Institute, WEF, and others to help shape some of the sessions and will note the key themes that emerge. These themes will flow into, and help inform, the third meeting of the CEM in London in April 2012. We also hope that our collective efforts contribute to a positive outcome at the Rio+20 conference next year and an action-oriented agenda for decades to come.

Thank you for your work to advance clean energy and green growth. I look forward to continued collaboration between the CEM and 3GF, and its sponsors and partners, in the lead-up to the next Clean Energy Ministerial and beyond.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Chu", is positioned below the word "Sincerely,".

Steven Chu

# SPEAKERS

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## Ms. Helle Thorning-Schmidt / Prime Minister / Denmark



H.E. Helle Thorning-Schmidt was recently elected Prime Minister of the Kingdom of Denmark – the first woman to ever hold this position. Since 2005, she has been the leader of the Danish Social Democrats and prior to assuming the office of prime minister she was the leader of the opposition in the Danish Parliament. The Prime Minister has been a staunch proponent of the environmental agenda and her policies have placed particular emphasis on greening the Danish economy in order to ensure sustainable growth and foster an industry prepared for the demands of the future. Her government has set some of the highest targets known to the world on issues such as CO2 emission cuts, renewable energy and energy efficiency.

The Prime Minister started her political career on the international scene. In 1999 she was elected to the European Parliament, where she – among other things – worked to ensure health and safety conditions for workers. The Prime Minister holds degrees in political science from University of Copenhagen and the College of Europe in Bruges.

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## Ms. Young Sook Yoo / Minister of Environment / Republic of Korea



H.E. Yoo, Young Sook (Ms.) has been serving as the Minister of Environment of the Republic of Korea since May 2011. As a supporter of mobilizing global action for environmental protection and one of the key figures in the field of science, Minister Yoo spearheads the effort to help the global community share their environmental policies and experiences.

Minister Yoo has become an accomplished female scientist working for the Korea Institute of Science and Technology (KIST) since 1990. Admired for the leading role in creative researches during her tenure, she held the title of the first female vice president of KIST in 2009. Minister Yoo assumed the position of President of the Women's Bioscience Forum in Korea. Also, she was a member of the Presidential Advisory Council on Education, Science & Technology. Since 2005, she has been a member of the Editorial Board of 'Electrophoresis,' a journal published by Willy-VCH, Germany. She was awarded Ph.D in Biochemistry at Oregon State University and later conducted postdoctoral researches at Stanford University, USA.

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## Mr. Juan Rafael Elvira Quesada / Minister of Environment / Mexico



Juan Rafael Elvira Quesada has been the Mexican Secretary for Environment and Natural Resources since 2006.

He has held numerous positions in the federal government, including: Director General for the Primary and Natural Renewable Resources Sector (SEMARNAT) from September 2003 to June 2004; Undersecretary for Development and Environmental Standardization of SEMARNAT from June 2004 to June 2005; and, starting in July 2005, he served as assistant attorney for industrial inspection for the Federal Attorney for Environmental Protection (PROFEPA).

As Secretary of Environment and Natural Resources, its management has been characterized by its commitment to make stronger the National System of Natural Protected Areas; he has promoted also a scheme of management, conservation and sustainable use of forestry, including the reinforce of an integrated support program for foresters and forest owners and forest: ProÁrbol. Elvira's administration has also been characterized by significant support to the attention of the phenomenon of climate change.

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## Mr. Ban Ki-moon / Secretary-General / United Nations



Ban Ki-moon is the eighth Secretary-General of the United Nations. His priorities have been to mobilize world leaders around a set of new global challenges, from climate change and economic upheaval to pandemics and increasing pressures involving food, energy and water. He has sought to be a bridge-builder, to give voice to the world's poorest and most vulnerable people, and to strengthen the Organization itself.

One of the Secretary-General's first major initiatives was the 2007 Climate Change Summit, followed by extensive diplomatic efforts that have helped put the issue at the forefront of the global agenda. Subsequent efforts to focus on the world's main anti-poverty targets, the Millennium Development Goals, have generated more than \$60 billion in pledges, with a special emphasis on Africa and the new Global Strategy on Women's and Children's Health. At the height of the food, energy and economic crises in 2008, the Secretary-General successfully appealed to the G20 for a \$1 trillion financing package for developing countries and took other steps to guide the international response and protect the vulnerable and poor.

Ms. Aimée Christensen / World Climate Ltd / Christensen Global Strategies



Aimée Christensen is Partner of World Climate Ltd and CEO of Christensen Global Strategies, advising clients including the Clinton Global Initiative, Duke Energy, Ogilvy, Rockefeller Brothers Fund, Swiss Re, The Elders, U.N. Development Program, U.S. Department of Energy, Virgin Unite, and Wolfensohn + Co. Aimée serves as Strategic Adviser (USA) to Cambridge University's Programme for Sustainability Leadership and the Prince of Wales's Business & Sustainability Programme, and is the Program Chair of the World Climate Summit, which brings together business leaders to collaboration building the global green economy. She has two decades' experience in policy, law, advocacy, and philanthropy including with Google.org, the World Bank, Baker & McKenzie, and the U.S. Department of Energy where she drafted the first bilateral and regional climate change accords. Aimée serves on the Board of the American Council on Renewable Energy and addressed energy issues at the 2008 Democratic National Convention. She is the 2011 Hillary Institute for International Leadership Laureate for exceptional leadership on Climate Change Solutions and a 2010 Aspen Institute Catto Fellow.

MODERATORS / FACILITATORS

Mr. Bo Diczfalusy / International Energy Agency



Bo Diczfalusy was appointed Director of the Directorate of Sustainable Energy Policy and Technology at the International Energy Agency (IEA) on 1 December 2009. Prior to joining the IEA, Mr. Diczfalusy - a Swedish national - spent much of his career in the Swedish government working on energy and climate change policy issues. Mr. Diczfalusy was the Programme Director of the Energy Programme at the Federation of Swedish Industries from 1997 until 2003. Most recently, he served as Director-General for Energy and Head of the Energy Division of the Swedish Ministry of Enterprise, Energy and Communications, and was the Swedish representative to the IEA Governing Board from 2003 to 2009. In 2009, Mr. Diczfalusy played a prominent role during the Swedish Presidency of the European Union. Mr. Diczfalusy graduated from the Stockholm School of Economics with a degree in International Economics.  
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Mr. Lew Fulton / International Energy Agency



Lewis Fulton has worked internationally in the field of transport/energy/environment analysis and policy development for over 20 years. He is a senior transport energy specialist with the International Energy Agency, Paris, where he returned in 2007 after working there originally from 1999-2005. During 2006-2007 he worked in Kenya with the UN Environment Program, on developing and implementing sustainable transport projects around the world. His IEA reports include Transport, Energy and CO2: Moving Toward Sustainability (2009), Saving Oil in a Hurry (2005), Biofuels for Transport: An International Perspective (2004), and Bus Systems for the Future (2002). He received his Ph.D. in Energy Management and Environmental Policy from the University of Pennsylvania in the United States in 1994.

Mr. Thomas Færgeman / Concito



Thomas Færgeman, M Sc, is Managing Director of CONCITO. Before joining CONCITO, he was deputy director in the largest Danish environmental NGO and he has served as an environmental consultant in Deloitte as well as environmental officer in Novo Nordisk. CONCITO is a Danish green think tank, independent of political and commercial interests. The purpose of CONCITO is to contribute to minimizing greenhouse gas emissions and reduce the harmful effects of global warming, as outlined in its statutes.

CONCITO provides analyses, based on research and practice at home and abroad which can be translated into direct action in politics, business and by Danish citizens. CONCITO works to make climate issues and their solutions known in the wider public through determined outreach and has concrete action and the reduction of greenhouse gas emissions as a goal. CONCITO is organized as a society with an equal distribution of members from the corporate sector, the universities and from civil society. CONCITO has 100 members.



# MODERATORS / FACILITATORS

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## Ms. Rachel Kyte / World Bank



Rachel Kyte is IFC's Vice President for Business Advisory Services, leading more than 1,000 staff across 66 countries. IFC is a member of the World Bank Group. Ms. Kyte has been Vice President since 2008. She has recently focused IFC's Advisory Services to deliver more measurable impact for the world's poorest people and in the most challenging environments, including countries affected by conflict. She is also leading IFC's efforts to support inclusive business models, including women's businesses. IFC's Advisory Services work with private sector clients to increase access to finance, improve standards, and transform markets with sustainable practices. Working with governments, they improve the investment climate and facilitate partnerships with the private sector to provide services such as infrastructure.

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## Mr. Jim Lane / American Biofuels Council



Jim Lane is Editor & Publisher of Biofuels Digest, the world's most widely-read biofuels daily, which he founded in 2007. He also publishes Geothermal Digest, Renewable Chemicals Digest and other publications, reaching 14,000+ organizations each day with renewable news and analysis.

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## Mr. Michael Liebreich / Bloomberg



Michael is Chief Executive of Bloomberg New Energy Finance, having founded the company in 2004. Michael serves as a Member of the World Economic Forum's Global Agenda Council on Sustainable Energy and is on the Selection Committee for the Zayed Future Energy Prize. Prior to founding New Energy Finance Michael was an entrepreneur, venture capitalist (with Groupe Arnault), and executive, helping to build around 25 successful companies. In the 1990s he acted as Deputy Managing Director of Associated Press Television, Founding Director of Sports News Television and non-executive director of Interactive Investor. He also spent five years in the London office of McKinsey & Company. He is a two-time finalist in the Ernst & Young Entrepreneur of the Year Awards. Michael has an MA in Engineering from the University of Cambridge and an MBA from Harvard, where he was a Harkness Fellow and Baker Scholar.

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## Dr. Claude Martin / International Institute for Sustainable Development



Honorary Advisor of WWF-International and past Director General, 1993-2005. Claude Martins WWF career started in the early 1970s, when he lived in Central India studying the ecology of the threatened barasingha deer. From 1975 to 1978 he served as director of national parks in Ghana, before becoming director of WWF-Switzerland in 1980. In 1990, he joined WWF International as Deputy Director General (Program). Three years later, he was appointed Director General of WWF International. In this position he initiated several new approaches in conservation, as well as international partnerships, for example with the World Bank and business/industry groups. From 1995-2006 Claude Martin has been a member of the China Council for International Cooperation on Environment and Development (CCICED) - a high level advisory body to the Chinese Government. Claude Martin holds a MSc. in zoology from the University of Zurich where he graduated with a PhD thesis in wildlife biology in 1975.

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## Mr. Jonathan Maxwell / Sustainable Development Capital LLP



Jonathan Maxwell co-founded Sustainable Development Capital LLP in 2007. Jonathan has completed over 40 investment vehicle transactions over the last 15 years involving investment in real estate, infrastructure, private equity and listed securities. During this time he gained exposure to the capital markets in Europe, the Middle East, Asia and the Americas. Jonathan is a member of the Advisory Council to the United Nations Environment Programme (UNEP) Green Economy Initiative. He also serves on the Advisory Council for the Clinton Climate Initiative Climate Positive Development Programme. Over the past three years, Jonathan has worked on the design and financing of a number of innovative investment vehicles in the environmental infrastructure private equity markets, including a special focus on energy efficiency. He has also advised on sustainable development projects such as Dongtan eco-city in Shanghai and the London Thames Gateway Institute for Sustainability.



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### Mr. Ricardo Meléndez-Ortiz / ICTSD



Co-founder of the International Centre for Trade and Sustainable Development and has been its Chief Executive Officer since 1996. Previously, he co-founded and was Director General of Fundación Latinoamericana. He has represented Colombia as a negotiator in several multilateral fora, including as permanent delegate of Colombia in Geneva and as a negotiator in GATT's Uruguay Round, the Rio '92 Conference Process, UNCTAD VIII, the Climate Change Convention, the Intergovernmental Panel on Climate Change (IPCC) and the Montreal Protocol. He acted as spokesperson for the G77 in several fora and served as Chair of the UN Standing Committees on Commodities and on Trade Preferences. Earlier, he served as Principal Adviser to the Colombian Minister of Economic Development and as Chief of Administration of the Office of the President of Colombia.

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### Mr. Nader Mousavizadeh / Oxford Analytica



Nader Mousavizadeh joined Oxford Analytica as Chief Executive Officer on 7 September, 2010. Mr. Mousavizadeh was previously founder and managing director of Archipelago Partners, a geostrategic advisory firm. Prior to establishing Archipelago Partners, Mr. Mousavizadeh was an investment banker at Goldman Sachs, working in the Financial Industries M&A group in New York, and latterly based in Europe with a number of global client relationships. Before entering the private sector, he served at the United Nations, where he was Special Assistant to UN Secretary-General Kofi Annan and a UN Political Officer in Bosnia-Herzegovina. A magna cum laude graduate of Harvard College and a Rhodes Scholar at the University of Oxford where he received his M.Phil. in International Relations from Christ Church College, Mr. Mousavizadeh received his MBA as a Sloan Fellow at the Sloan School of Management at MIT. He was elected a 2001 Global Leader for Tomorrow by the World Economic Forum.

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### Mr. Jeremy Oppenheim / McKinsey & Company



Jeremy leads McKinsey's global Sustainability and Resource Productivity Practice (SRP), the Firm's hub on green growth, resource productivity and the wider sustainability agenda. The SRP practice's aspiration is to help public, social and private sector decision makers find the 'sweet spot' between their value-creating agenda, the sustainability imperative and the discontinuities altering resource economics, such as resource supply/demand tensions, technology innovation and regulatory intervention.

Jeremy has a MA in Law and Economics from Cambridge University and a Masters in Public Administration from the Kennedy School of Government

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### Mr. Richard Samans / Global Green Growth Institute



Rick Samans is Executive Director of the Global Green Growth Institute. Until March 2011, he was Managing Director of the World Economic Forum, overseeing the Forum's policy and public-private partnership initiatives. Before joining the Forum in 2001, Rick served as Special Assistant to the President for International Economic Policy in the U.S. White House. As Senior Director of the National Security Council's International Economic Affairs directorate and a senior staff member of the National Economic Council, he assisted President Clinton on a broad range of international trade, development and financial policy matters. From 1996 - 98, he also served as Economic Policy Advisor to U.S. Senate Democratic Leader Tom Daschle (D-SD). He remains Senior Policy Adviser to the World Economic Forum, Non-resident Senior Fellow for International Economic Policy at the Center for American Progress and Chairman of the Climate Disclosure Standards Board.

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### Mr. Dominic Waughray / World Economic Forum



Since 2006, Dominic has been the Head of Environmental Initiatives for the World Economic Forum and Senior Director since 2008. His focus areas are resource scarcity (water-food-energy linkages); water security (water initiative); climate change and green growth (green growth partnerships initiative); sustainable growth (sustainable consumption initiative).

Previously, Dominic was Managing Partner at Environmental Resources Management, a consultancy (1998-2005) and Senior Scientific Officer (Resource Economist) at the Natural Environment Research Council Institute of Hydrology (UK civil service) (1994-1998)

# MODERATORS / FACILITATORS

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## Mr. Kandeh Yumkella / UNIDO



Director-General of the United Nations Industrial Development Organization (UNIDO) since December 2005, and in December 2009 reconfirmed for a second term in office. As a leader in international development cooperation for over 20 years, he has actively promoted important initiatives and international partnerships for the cause of sustainable development. Mr. Yumkella serves as Chairman of UN-Energy since 2007, a United Nations system coordination body of 18 agencies dealing with energy-related issues, and also chaired the UN Secretary-General's Advisory Group on Energy and Climate Change (AGECC), 2008-2010. He was appointed in by the Secretary General in September 2011 as Co-Chair of the new High-level Group on Sustainable Energy for All. This High-level Group - consisting of international leaders from the private sector, Governments and civil society - will aim to develop and facilitate the implementation of a strategy to achieve Sustainable Energy for All by 2030. Dr. Yumkella holds a PhD. from the University of Illinois, Urbana-Champaign, USA.

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## Simon Zadek / Global Green Growth Institute



Simon is a visiting Senior Fellow at the Global Green Growth Institute and the Centre for International Governance Innovation, team leader of the South African Renewables Initiative, and sustainability advisor to the World Economic Forum. Simon founded and was Chief Executive of AccountAbility, founding Chair of the Ethical Trading Initiative and Development Director at the New Economics Foundation. He was non-resident Senior Fellow at Harvard's Centre for Business and Government, and is on the Advisory Board of Generation Investment Management and the Board of the International Centre for Trade and Sustainable Development. Simon book, 'The Civil Corporation', was awarded the Academy of Management's Best Book on Social Issues in Management. His Harvard Business Review article, 'Paths to Corporate Responsibility' is widely used in understanding 'emergent sustainability strategies'. Simon advises global businesses on sustainability issues, including recently AngloGold Ashanti, Codelco, General Electric, and Nike.



# PANELLISTS

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## Mr. Shai Agassi / Better Place



Shai Agassi is the founder and chief executive of Better Place. He is focused on one of this century's biggest challenges, moving the world from oil-based to sustainable transportation. Agassi works with government leaders, auto manufacturers, energy companies and others to make his vision—zero-emission vehicles powered by electricity from renewable sources—a reality in countries around the globe.

Agassi founded Better Place and, in 2007, officially launched the company. In 2008, Israel became the first country—and Renault the first carmaker—to embrace the Better Place model of building open network infrastructure to enable mass adoption of electric vehicles and delivering transportation as a sustainable service. Denmark, Australia, California, Hawaii, and Ontario have followed suit. Today, Agassi and Better Place are in discussions with many countries, car-makers and other potential partners around the globe. Agassi remains an active member of the Forum of Young Global Leaders of the World Economic Forum, where he focuses on climate change, transportation and other key issues.

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## H.E. Mohammad Al-Najjar / Minister for Water and Irrigation / Jordan



Born in 1956, Najjar holds a master's degree in environmental engineering from Newcastle University in the UK, awarded in 1988, and a bachelor's degree in civil engineering, which he earned in 1981 from Krasnodar University in Russia. He started work at the Ministry of Water and Irrigation in 1981 and held several posts, including director of the projects department and the Khirbet Al Samra Project. He also was director of private sector projects at the Water Authority, the Wastewater Projects Directorate, the Environmental Directorate and the planning and administration unit.

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## Mr. Nicholas Archer / Suzlon Energy



Nick Archer was appointed to his current role in October 2009 when he moved to Suzlon's corporate headquarters in Pune, India. Suzlon as a Group (including REpower) is the world's fifth largest wind turbine manufacturer. It has a presence in 32 countries and an installed base of 17,000 MW. Nick reports direct to the Chairman. He was previously Executive Vice President and Head of Crisis Communications at Edelman New York. Nick has managed his own boutique consultancy, Pittacus, and also co-founded and was managing partner of The Company Agency, another London-based boutique agency.

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## Mr. Christian Friis Bach / Minister for Development Cooperation / Denmark



Mr. Christian Friis Bach is the Danish Minister for Development Cooperation. He holds a Master in Agronomics and a PhD in International Economy both from the Royal Danish Agricultural University, and is Associate professor at the University of Copenhagen. Mr. Christian Friis Bach has great experience from the field of development. He is former International Director of DanChurchAid and Chairman of the Danish Association for International Cooperation. Mr. Christian Friis Bach has been member of several committees including: The Danish Africa Commission, the presidium for WWF World Wide Fund for Nature, Board Member of the Environmental Assessment Institute. Furthermore, Mr. Christian Friis Bach has published a large number of books, reports and articles in newspapers and magazines.

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## Mr. Francisco Barnés Reguriro / National Institute of Ecology / Mexico



Francisco Barnés is chemical engineer from the National Autonomous University of Mexico (UNAM). He received his master degree in Chemical Engineer from the University of California at Berkeley in 1997 and his PhD in Environmental and Energy Policy from Imperial College at London University in 2001. He was a partner in McKinsey & Company since 2001 until February 2011. Through his career at McKinsey, he became part of the global leadership in Energy and Sustainability Practices advising governments, NGO's, private companies and public sector institutions. Throughout his consultancy work, he specialized in the creation of low-carbon growth strategies, adaptation to climate change, energy and other topics related to sustainable development like water, environmental pollution and solid wastes. He has published several peer-reviewed articles in leading journals and has participated on a number of international fora related to environmental and energy policy. In March 2011, he was designated by the President of Mexico as the head of the National Institute of Ecology.

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### Mr. Peter Brabeck-Letmathe / Nestlé



Peter Brabeck-Letmathe led the Nestlé Group from 1997 to 2008, first as CEO, till 2005, and then as Chairman and CEO. In April 2008, he handed over the office of CEO and is now Chairman of Nestlé S.A.

Peter Brabeck-Letmathe serves as Vice-Chairman of both L’Oréal and Credit Suisse Group. Institutionally, he is active on the Foundation Board of the World Economic Forum, where he leads a worldwide project on “Water Resources”. He is also a member of the European Round Table of Industrialists (ERT), where he is part of the Steering Committee and chairs the Foreign Economic Relations workgroup.

Furthermore, Peter Brabeck-Letmathe has received several awards, including “La Orden Mexicana del Aguila Azteca”, the Schumpeter Prize for outstanding contribution in Economics.

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### Mr. Simon Brooks / European Investment Bank



Simon Brooks has been a Vice President of the European Investment Bank since July 2006. He is a member of the EIB’s Management Committee which draws up the Bank’s financial and lending policies, and oversees its day-to-day business, and takes collective responsibility for the Bank’s performance.

Mr. Brooks is responsible for EIB business in the UK and the Netherlands, for its Climate Action and other environmental lending policies. Internally, he is responsible at Management Committee level for the bank’s control functions such as audit, internal audit, compliance and related issues, and all matters regarding buildings, facilities and logistics. Simon Brooks is an economist by training, with bachelor’s and master’s degrees from Oxford University. Before joining the Bank, Mr Brooks worked at the UK Treasury, mainly on macroeconomic and European financial matters.

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### Mr. Niels B. Christiansen / Danfoss



Niels B. Christiansen is the CEO & President of global group Danfoss, which produces an extensive range of components and solutions that promote energy efficiency. Niels B. Christiansen has a broad experience of leading large global high-tech companies and understands the challenges they face. He joined the Danfoss in 2004, and before that was Executive Vice President at GN Store Nord and President & CEO of GN Netcom.

He has also held leading positions at McKinsey & Co., and Hilti Corp., Switzerland.

Niels B. Christiansen has an MSc in Engineering from the Technical University of Denmark and holds an MBA from INSEAD in France.

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### Mr. Luciano Coutinho / Brazilian Development Bank



Luciano Coutinho is an expert in industrial and international economics.

Between 1985 and 1988, he was Executive-Secretary for the Ministry of Science and Technology and took part in the structuring of the Ministry. While there, Coutinho was also involved in conceiving policies addressing highly-complex areas, such as biotechnology, information technology, fine chemistry, precision mechanics and new materials. He was partner at LCA Consultores, acting as consulting specialist in competition defense and foreign trade before taking office as President of the BNDES in 2007.

While presiding over the BNDES’ activities, Coutinho has worked on implementing the Production Development Policy (PDP), with the objective of carrying out the expansion of the Brazilian industrial sector, the advancement of innovation and competitiveness, as well as the implementation of infrastructure works in keeping with the federal government’s Growth Acceleration Plan (PAC).

# PANELLISTS

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## Mr. Zhongyi Deng / Shenzhen Bak Battery Co., Ltd.



Zhongyi Deng has served as Vice President of Technology since October 2007. From December 2006 to September 2007, he worked as Vice President of Business Development. He has also been leading the Electric Vehicles Lithium-phosphate Power Battery Industrialization Project, the PRC National High Technology Research and Development Program or “863 Program”. Prior to joining China BAK, Dr. Deng served as Director of Technology & Marketing for Ferro Corporation from 2004 to 2006. Dr. Deng also served as Ferro Corporation’s Technical Manager and Senior Scientist from 2002 to 2003. From 1996 until 2001, he held several positions at Moltech Corporation, a lithium rechargeable battery developer based in Tucson, Arizona, including Manager of R&D. Dr. Deng worked at Lawrence Berkeley National Lab for 2 years where he worked on lithium polymer battery R&D -- a USABC (Advanced Battery Consortium) project. Dr. Deng has a Ph.D. in Chemistry from University of Waterloo in Ontario, Canada. He also holds both Masters of Science and Bachelors of Science degrees in Chemistry from Wuhan University in Wuhan, China.

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## Dr. Robert T. Do / Solena



Dr. Robert T. Do is the CEO and Co-Founder of Solena Fuels. Solena Fuels is building a sustainable aviation and marine fuels platform to directly provide industrial end users - such as airlines and shipping companies - price competitive alternatives to fossil fuel sourced energy. Solena uses its proprietary technology to convert any type of biomass, including waste, into a renewable synthetic gas which is subsequently upgraded into a synthetic, certified drop-in liquid fuel that replaces fossil fuel-based energy.

Dr. Do is an expert in environmental and forensic medicine as well as a specialist in bio energy and environmental toxicity. He is the Co-Inventor of the Solena technology with patents issued worldwide under the Patent Cooperative Treaty (PTC). Dr. Do has been advocating the uses of bio energy for the reduction of greenhouse gases to combat climate changes and has been lecturing extensively in the US, Europe, and worldwide on the importance of alternative renewable energy.

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## Ms. Pia Olsen Dyhr / Minister for Trade and Investment / Denmark



Ms. Pia Olsen Dyhr is the Danish Minister for Trade and Investment and has been a Member of the Parliament for the Socialist People’s Party since 2007. She has much experience from her former work for organisations like CARE Denmark and the Danish Society for Nature Conservation. Furthermore, she has been Deputy Leader of ActionAid Denmark. Ms. Pia Olsen Dyhr holds a Master Degree in Political Science from University of Copenhagen.

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## Mr. Ditlev Engel / Vestas



Ditlev Engel is the President and CEO of Vestas Wind Systems A/S which he joined in May 2005. He is a member of the General Council as well as the Industrial Policy Committee of The Confederation of Danish Industries. Ditlev Engel also serves on several energy policy councils and advisory panels, including the Industry Advisory Group of the International Energy Agency in Paris and the International Advisory Panel on Energy of the Singaporean Ministry of Trade and Industry. Prior to joining Vestas in 2005, Ditlev Engel served as Group President and CEO of Hempel A/S (Denmark), for which company he also worked 12 years abroad, before taking over as Group President and CEO. Ditlev Engel holds a Diploma in Business Economics from Copenhagen Business School in Denmark and has attended a general management programme at INSEAD in France.

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## Ms. Christiana Figueres / UNFCCC



Christiana Figueres was appointed as the new Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC) by UN Secretary-General Ban Ki-moon on 17 May 2010. Ms. Figueres has been involved in climate change negotiations since 1995. She was a member of the Costa Rican negotiating team, a member of the Executive Board of the Clean Development Mechanism in 2007, and Vice President of the Bureau of the Conference of the Parties 2008-2009. Between 1995 and 2003, she founded and directed the Center for Sustainable Development of the Americas (CSDA), a non-profit think tank for climate change policy and capacity-building and served (1994-1996), as Director of the Technical Secretariat, Renewable Energy in the Americas (REIA). Ms. Figueres has served on boards of non-governmental organizations involved in climate change, including the Voluntary Carbon Standard, and is a widely published author climate solutions, as well as adviser to the private sector on taking leadership in mitigation.



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### Mr. Angel Gurría / OECD



As OECD Secretary-General, since June 2006, Mr. Angel Gurría has reinforced the OECD's role as a 'hub' for global dialogue and debate on economic policy issues while pursuing internal modernization and reform. Under his leadership, OECD has expanded its membership to include Chile, Estonia, Israel and Slovenia and opened accession talks with Russia. It has also strengthened links with other major emerging economies, including Brazil, China, India, Indonesia and South Africa, with a view to possible membership. The OECD is now an active participant in both the G-8 and the G-20 Summit processes. Mr. Gurría has participated in various international not-for-profit bodies, including the Population Council, based in New York, and the Center for Global Development based in Washington. He chaired the International Task Force on Financing Water for All and continues to be deeply involved in water issues.

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### Ms. Connie Hedegaard / European Commission



Connie Hedegaard had already been working with climate issues for several years by the time she began her appointment as the EU's first ever Commissioner for Climate Action in February 2010. In August 2004 she was appointed as Danish Minister for the Environment. In 2007 she was in charge of setting up the Danish Ministry of Climate and Energy, where one of the main tasks was to prepare the UN Climate Conference in Copenhagen in December 2009. Apart from working as a politician and journalist, Connie Hedegaard has sat on a number of committees and boards, including chairing the Centre for Cultural Cooperation with Developing Countries (CKU) and as a member of the board of the Danish Parliament's Democracy Foundation. Lastly, she has received various prizes for her involvement in and contributions to social debate, due in great part to her wide-ranging activities as a lecturer and author. Her publications include *Da klimaet blev hot*, published in Denmark in 2008, as well as contributions to several anthologies and topical books.

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### Mr. Eelco van Heel / Rockwool



Eelco van Heel is CEO and Group President of Rockwool International, the world's leading supplier of stone wool insulation, a material that helps save energy and CO2 in buildings and industrial processes around the globe. Insulation has been pin-pointed - for instance by the McKinsey studies - as one of the most profitable CO2 abatement technologies. The Rockwool Group's has strong activities in the construction industry in developed economies such as the EU and North America, and is expanding rapidly in emerging economies like Russia, India and China. Mr. van Heel has thus extensive knowledge about opportunities and barriers for energy efficiency in buildings across the world. Mr. van Heel is Clean Energy Ambassador for the WWF.

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### Mr. Gary Clyde Hufbauer / Peterson Institute for International Economics



Gary Clyde Hufbauer, Reginald Jones Senior Fellow since 1992, was formerly the Maurice Greenberg Chair and Director of Studies at the Council on Foreign Relations (1996-98), the Marcus Wallenberg Professor of International Finance Diplomacy at Georgetown University (1985-92), senior fellow at the Institute (1981-85), deputy director of the International Law Institute at Georgetown University (1979-81); deputy assistant secretary for international trade and investment policy of the US Treasury (1977-79); and director of the international tax staff at the Treasury (1974-76).

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### Dr. Urban Keussen / E.ON.



Dr. Urban Keussen studied physics and gained his Diploma and Ph. D. in Physics in 1993. After several roles within the E.ON group he became Member of the Executive Board of E.ON Netz - the power transmission operator in 2003. New technologies and related innovations play an increasingly important role for strengthening the future competitive position of the E.ON group. Thus E.ON has set up the new Technology & Innovation function at group headquarter to lead and be responsible for all technology and innovation activities within the E.ON group. In 2010 Urban Keussen took over this responsibility as Senior Vice President Technology & Innovation.

# PANELLISTS

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## Ms. Sylvia Kreibehrl / Deutsche Bank



Sylvia Kreibehrl joined Deutsche Bank in 1995 working on numerous equity capital markets as well as mergers & acquisition transactions while being based in Frankfurt and London and covering the renewable energy sector since 2004. Sylvia has been a core team member of Deutsche Bank's Global Renewable Energy Industry Group. The group formed in 2008 to cover renewable energy companies worldwide and to coordinate Deutsche Bank's efforts in the sector. Most recently she joined DB's Asset Finance & Leasing Sustainable Investments group in 2009 focusing primarily on renewable energy transactions in developing and emerging markets.

Sylvia is the lead analyst for DB Climate Change Advisors' research reports "GET FIT Program - Global Energy Transfer Feed-in Tariffs for Developing Countries" and "GET FIT Plus - De-Risking Clean Energy Business Models in a Developing Country Context". In addition to her professional career at Deutsche Bank, Sylvia spent a sabbatical in 2007 in Fort Portal, Uganda, working for a micro finance institution and implementing loan programs for solar home systems.

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## Mr. Jim Leape / WWF International



Jim has worked in conservation for more than 3 decades. A graduate of Harvard College and Harvard Law School, Jim began his career as an environmental lawyer - bringing environmental protection cases in the United States, advising the United Nations Environment Programme in Nairobi, Kenya, and co-authoring the leading American text on environmental law. Jim first joined WWF in the US in 1989, and for 10 years led their conservation programmes around the world, serving as Executive Vice President. In that role, he helped shape the global strategy of the WWF Network and represented WWF in many international fora. From 2001 to 2005, he directed the conservation and science initiatives of the David and Lucile Packard Foundation, one of the largest philanthropies in the US.

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## Mr. Martin Lidegaard / Minister for Climate, Energy and Buildings / Denmark



The newly appointed minister for climate and energy Martin Lidegaard, is no newbie to the field of climate and energy. As former director of the green think tank and network Concito, Martin has been in the field of renewable energy for several years, and both his network and his expertise are two of the many reasons for the appointment.

Mr. Lidegaards political experience include the following: 2011: Appointed as Minister for Climate, Energy and Buildings. 2005-2007: Re-elected as MP (Social Liberals). Served as party's spokesperson for climate, environment, social and transport policies. 2001-2005: Elected to parliament (Social Liberals). Served as party's spokesperson for energy, transport and food policy. His professional experience counts positions such as: 2008-2011: Communications Consultant, Relation People. Co-founder and Chairman of the environmental think tank Concito. 1995-2001: Head of Information and Assistant Secretary General, ActionAid Denmark. Chairman of environmental and foreign development committee, Danish 92 Group. 1993-1995: Head of Information, Kommunernes Forsikring, an insurance company for municipalities and their employees.

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## Ms. Joan MacNaughton / Alstom



Senior Vice-President, Environmental Policies & Global Advocacy, Alstom. An influential figure in the energy and climate policy debate in a variety of UK, EU and international roles, Joan helped to put climate change at the center of energy policy, oversaw the energy agenda during the UK's Presidency of the EU, led the energy work agreed at the G8 Gleneagles Summit, and Chaired the Governing Board of the International Energy Agency. Joan now spearheads Alstom Power's clean power advocacy, focused on reducing power generation CO2 emissions. President of the Energy Institute, Joan holds several other appointments

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**Mr. Jaedo Moon** / Ministry of Knowledge Economy / Republic of Korea



Jaedo Moon is Deputy Minister for International Affairs, Ministry of Knowledge Economy in the Government of the Republic of Korea. His careers includes positions such as: Deputy Minister for International Affairs (2011.6-Present) Director General for Energy Resources Development & Nuclear Power (2010.3 – 2011.5) Director General for Trade and Industrial Cooperation (2009.9 - 2010.2) Minister Counsellor, Permanent Mission of Korea in Geneva (2007.2 - 2009.8) Director General for FDI Planning (2006-2007) Director for Energy Policies (2005) Director for Automobile and Ship-building Industries (2003) Director for Project Operations in KEDO (Korean Peninsula Energy Development Organization, 1995). Mr. Moon holds a Master in Public Administration, Seoul National University.

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**Mr. Raila Odinga** / Prime Minister / Kenya



Raila Odinga holds a Master degree from Magdeburg College of Advanced Technology in Germany. In May 1970 Raila Odinga joined the University of Nairobi, where he taught until 1974 as a tutorial fellow in mechanical engineering. Mr. Odinga was elected a Member of Parliament in 1992. Mr. Odinga was elected the Party Leader of the National Development Party of Kenya and ran as the Presidential Candidate in 1997 and again in 2007 under the Orange Democratic Movement (ODM) party.

Mr. Odinga was appointed Prime Minister in the Grand Coalition Government established after the disputed election in 2007. In 2008 he was awarded honorary doctorates by the University of Nairobi together with the President of Kenya Mr Kibaki and Mr. Kofi Annan for their efforts in restoring peace in Kenya after the post-election violence. Prime Minister Odinga remains committed to far-reaching constitutional and institutional reforms that will redefine and promote justice, equality, prosperity and progress in Kenyan society.

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**Mr. Torben Möger Pedersen** / PensionDanmark



Torben Möger Pedersen (b. 1955) is CEO of PensionDanmark – a position he has held since the company was established in 1990. Prior to working for PensionDanmark he has held positions as economist and head of secretariat at the Danish General Workers’ Union (1986-1990) as well as economist at The Danish Economic Counsel (1983-1986).

He holds a number of board memberships including The Danish Insurance Association (since 1996) and The Centre for Economics and Business Research at Copenhagen Business School (since 2005). From 1991 to 2011 he was chairman of the board at Dagbladet Information, a Danish daily newspaper. From 2002 to 2007 he was a board member at The Danish Economic Society. Torben Möger Pedersen holds a M.Sc. Economics from University of Copenhagen.

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**Mr. Jukka Pertola** / Siemens



Jukka Pertola was educated at the Helsinki University of Technology, where he graduated as MSc in Electrical Engineering in 1988. He joined Siemens Finland in 1984, and after various positions within Siemens in Belgium, Germany, Finland and Denmark he became President of a division at Information and Communication Networks Group of Siemens AG in 2001, and since 2002 he has been CEO of Siemens Denmark.

Siemens AG is a global powerhouse in electronics and electrical engineering, operating in sectors industry, energy, healthcare, and infrastructure & cities. The company has around 400,000 employees working to develop and manufacture products, design and install complex systems and projects, and tailor a wide range of solutions for individual requirements. In fiscal year 2010 Siemens had revenue of €77 billion and a net income of €2.5 billion. Siemens’ Environmental Portfolio accounted for more than 30% of the total revenues in 2010

# PANELLISTS

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## Mr. Mehmet Simsek / Minister of Finance / Turkey



Served as a senior economist at the US Embassy in Ankara for almost four years. During 1998-2000 he worked as a senior economist and bank analyst for Deutsche-Bender Securities in Istanbul and, afterwards, he joined Merrill Lynch. At the first stage of his Merrill Lynch career, he was responsible for the Mediterranean region and afterwards emerging European countries such as Russia, Poland, Hungary and Czech Republic were added to his portfolio. Mr. Simsek was later appointed as the head of Europe, Middle East and Africa Regions Economic and Strategic Research Department. Mr. Simsek left his office in Merrill Lynch May 2007 and was elected for the Turkish Grand National Assembly serving as the State Minister for Economic Affairs and from May 2009, he was appointed as the Minister of Finance.

Furthermore, Minister Simsek was the IMF & World Bank Governor of Turkey during 2007-2009 and Member of Istanbul 2010 European Capital of Culture Coordination Board during 2008-2011.

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## Mr. Ole Sohn / Minister for Business Affairs and Growth / Denmark



Ole Sohn is the Danish Minister for Business and Growth. He has been Member of the Parliament for the Socialist People's Party since 1998 and his parliamentary career counts positions such as Finance policy spokesman and member of the Finance Committee, the Economic and Political Affairs Committee, and the Standing Orders Committee. Deputy member of the Labour Market Committee and the Cultural Affairs Committee. Furthermore, Ole Sohn has been Group chairman for the Socialist People's Party. Furthermore, Ole Sohn is author of several books and is a former lecturer and consultant.

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## Mr. Villy Søvndal / Minister of Foreign Affairs / Denmark



Mr. Villy Søvndal is the Danish Minister for Foreign Affairs. He has been a Member of the Danish Parliament for the Socialist People's since 1994 and Party Chairman since 2005. Before being elected for the Danish Parliament, Mr. Villy Søvndal was Member of Kolding Town Council.

As leader of the Socialist People's Party, Mr. Villy Søvndal has been an integral part of its successful development and the close collaboration between himself and the Danish Prime Minister Helle Thorning-Schmidt.

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## Ms. Thandi Tobias-Pokolo / Republic of South Africa



Thandi Tobias-Pokolo has been the Deputy Minister of Trade and Industry of the Republic of South Africa since 11 May 2009. Previously, she has been Chairperson of the Portfolio Committee on Public Works, Chairperson of the Portfolio committee on Defence and a Member of Standing Committee on Public Accounts – Scopa.

Thandi has an advanced Diploma in Economic Policy from the University of Western Cape and studied Economics and Public Finance at Unisa.

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## Mr. Simon Upton / OECD



Simon Upton is the Environment Director at the Organisation for Economic Cooperation & Development (OECD). He has played a key role in the development of the OECD's Green Growth Strategy launched earlier this year. The team he leads will release their Environment Outlook to 2050 next March prior to the Rio+20 conference. Mr Upton is a New Zealander, a Rhodes Scholar and former Member of Parliament. He was Minister for Environment and Science & Technology during the 1990s. He chaired the UN Commission on Sustainable Development in 1999. After leaving politics in 2000, he worked with Pricewaterhouse Coopers in New Zealand, was a Visiting Fellow at the University of Otago Faculty of Commerce and served on the board of Holcim (NZ) Ltd. He has chaired the Round Table on Sustainable Development at the OECD since 1998 and took over his current role as Environment Director in 2009.

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### Mr. Charles Wang / Greentech Automotives



Charles Wang is the Chief Executive Officer and co-founder of GreenTech Automotive (GTA). He started GTA with the goal to make affordable EVs. Under his leadership, GTA will start mass production of its first product, MyCar next month. Thanks to the support from government of Denmark and GTA's partner Greenabout, MyCar has been under extensive testing in Bornholm.

Before joining GTA, Mr. Wang was the CEO of a publicly listed company with primary businesses in car dealership networks and auto parts manufacturers in China. Before that, Mr. Wang was a capital markets partner of a prominent New York law firm. Mr. Wang received his Juris Doctor degree with honors from Duke University School of Law, his Master of Arts degree in Development Studies from Ohio University, and his Bachelor of Law degree from Xiangtan University College of Law.

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### Mr. James Wardlaw /Goldman Sachs



James Wardlaw is currently a Managing Director at Goldman Sachs, where he is responsible for GS' business with the public sector in the UK. He was formerly an HM Treasury official from mid 2002 to 2005. He co-authored with Professor Dieter Helm, a paper for the Policy Exchange called Delivering a 21st Century Infrastructure for Britain, published in September 2009. James supported the Green Investment Bank Commission looking into the feasibility of a financing institution for the UK's low carbon priorities is currently involved in a private sector initiative to set up the Green Deal Finance Company, an aggregator for the financing of the Green Deal. James has been closely involved in a number of the UK's largest infrastructure projects over the last decade.

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### Dr. Young Soogil / Presidential Committee on Green Growth / Republic of South Korea



A senior Korean economist, Dr. Soogil Young has been serving as Chairman of the Presidential Committee on Green Growth which he co-chairs with the Prime Minister since July 2010. He is also the founding Chairman of the Green Investment Korea Forum (GFIK). Dr. Young worked at four major governmental think tank on economic policies during 1978~1998, including at the Korea Development Institute (KDI) as a senior fellow, and at the Korea Transport Institute (KOTI) and the Korea Institute for International Economic Policy (KIEP) as President at each. During 1998~2000, he served as Korea's Ambassador to the OECD, concurrently serving as Chairman of the Advisory Council on the Development Centre. After working at Kim & Chang, Korea's law firm, as a senior advisor for three years subsequently, Dr. Young worked at the National Strategy Institute (NSI), an independent think tank on economic reforms, as President till April 2011. Since the early 1980s, he served on numerous governmental advisory committees, including on four Presidential commissions/committees.

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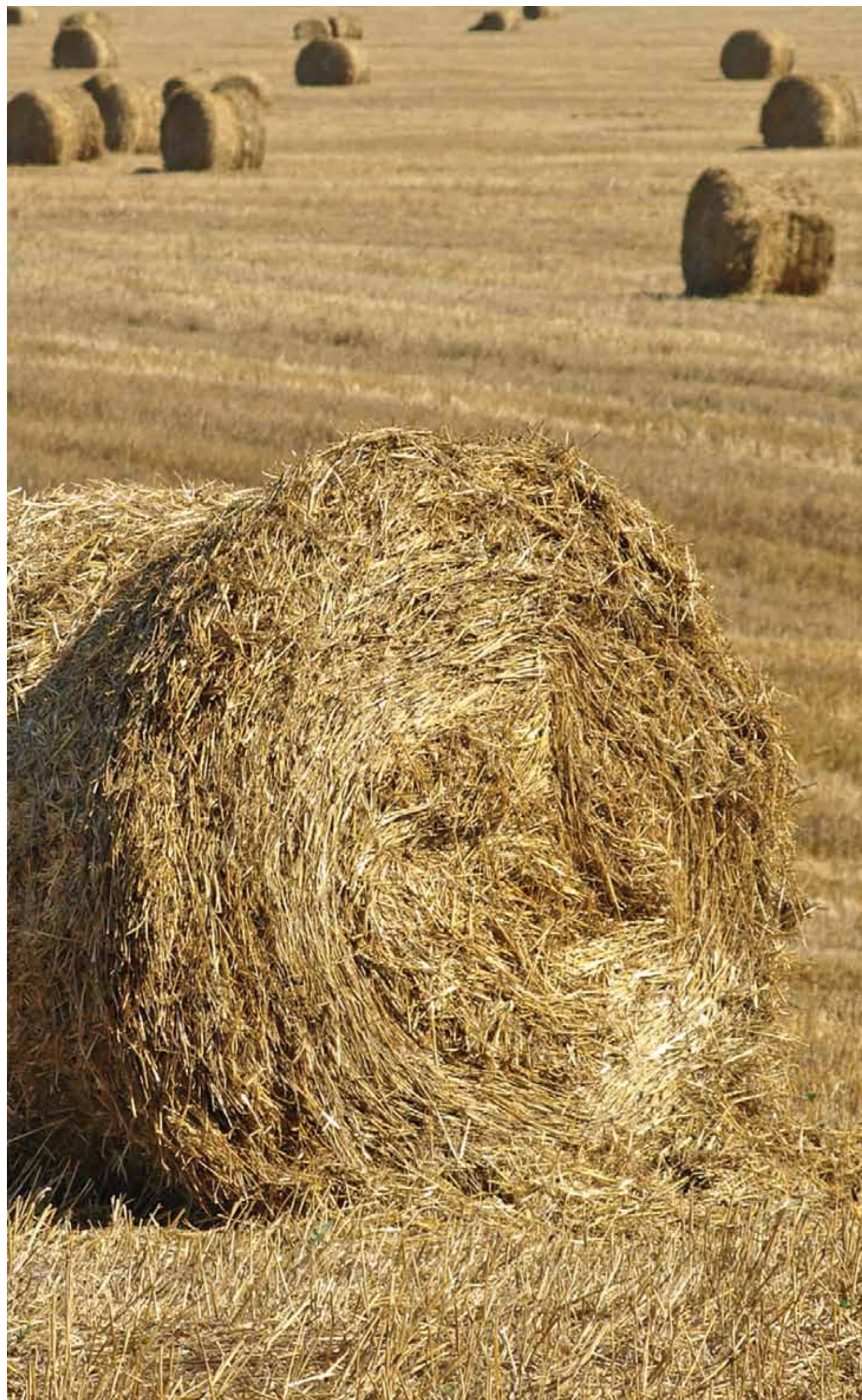
### Mr. Meles Zenawi / Prime Minister / Ethiopia



Mr. Meles Zenawi, born in 1955, interrupted his studies in 1974 to join the Tigray Peoples Liberation Front. He was elected to the leadership committee of the TPLF in 1979 and to its Executive Committee in 1983. He has been chairman of both the TPLF and the Ethiopian People's Revolutionary Democratic Front since 1989. Upon the defeat of the military junta, Mr. Meles Zenawi became president of the Transitional Government of Ethiopia. He was elected Prime Minister of the Federal Democratic Republic of Ethiopia in 1995 and re-elected for additional two terms in 2000 and 2005.

In July 2009, he was mandated to speak on behalf of Africa on climate change matters and to coordinate the Conference of African Heads of State and Government on Climate Change. In this capacity, he has led Africa's negotiating team to the World Summit on Climate Change (COP 15), held in Copenhagen, in December 2009.







# LIST OF PARTICIPANTS

ABB: <b>Brice Koch</b> / Executive Vice President	Brazilian Development Bank (BNDES): <b>Luciano Coutinho</b> / President	Danfoss: <b>Jørgen M. Clausen</b> / Chairman
ABB: <b>Johan Peeters</b> / Vice President Global Sales and Marketing	Brazilinvest: <b>Mario Garnero</b> / President	Danfoss: <b>Lars Dyrhagen</b> / Vice President
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