

8th Annual

# SUSTAINABLE INNOVATION FORUM 2017

UN   
environment

CLIMATEACTION 



## 13-14 November 2017

Climate Action Domes, Deutsche Post DHL Group Post Tower, Bonn, Germany

# Event Guide

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 @Climate\_Action\_ #SIF17



Sheer  
Driving Pleasure

# CAN THE FUTURE ALREADY BE FASHIONABLE?

 DRIVE TO FEEL THE STYLE.  
THE NEW, ALL-ELECTRIC BMW i3.

Official fuel economy figures for the BMW i3: mpg N/A, CO2 emissions 0 g/km; nominal power output (electric motor): 75/102 kW/hp at 4,800 rpm; peak power output (electric motor): 125/170 kW/hp; energy consumption per 62 miles/100 km: 13,6\* - 13,1 kWh; total range (NEDC): 300 km / 186 miles; customer orientated range: up to 200 km / 125 miles. \* Wheels cluster: 20" wheels. Official fuel economy figures for the BMW i3 with Range Extender (NEDC weighted combined cycle): 0,6l/100 km / 392 mpg; CO2 emissions (NEDC weighted combined cycle): 13 g/km; energy consumption per 62 miles/100 km (NEDC weighted combined cycle): 11,9\* - 11,5 kWh; electric range (NEDC): 235km / 143 miles; customer orientated electric range: up to 180 km / 112 miles; customer orientated total range: up to 330 km / 205 miles. \*Wheels cluster: 20" wheels. Range figures may vary depending on different factors, including but not limited to individual driving style, climatic conditions, route characteristics and preconditioning. New BMW i vehicles are available at authorized BMW i Agents or the BMW i Sales Hotline only.



# ON TARGET FOR ZERO

To drive the logistics industry toward a sustainable future, we are aiming for zero emissions by 2050. We want to achieve this for and together with our customers.

[dpdhl.com/cop23](https://dpdhl.com/cop23)

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MISSION 2050  
**ZERO EMISSIONS**  
**GO GREEN**

Deutsche Post DHL  
Group

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## Upcoming Events

**Sustainable  
Investment  
Forum Europe**

Sustainable Investment Forum Europe 2018  
[europe.sustainableinvestmentforum.org](https://europe.sustainableinvestmentforum.org)

**SUSTAINABLE  
INNOVATION  
IN SPORT 2018**

Sustainable Innovation in Sport 2018  
[www.sustainableinnovationinsport.org](https://www.sustainableinnovationinsport.org)

**Sustainable  
Investment  
Forum USA**

Sustainable Investment Forum USA 2018  
[usa.sustainableinvestmentforum.org](https://usa.sustainableinvestmentforum.org)





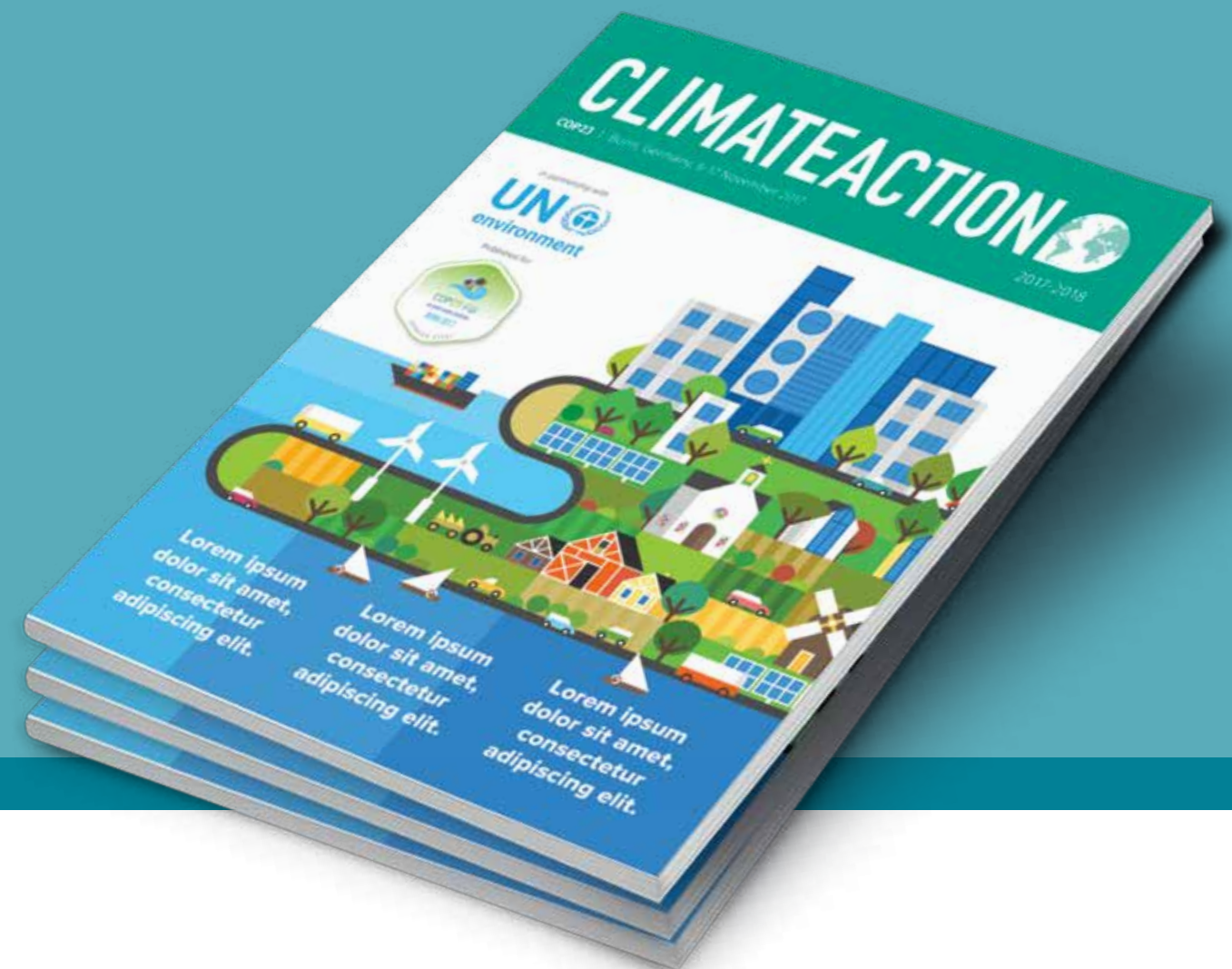
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When technology helps people shape the future.  
So they can create a lasting legacy. That's Ingenuity for life.

A nation's most precious resource is the next generation of innovators. We need to create an environment that inspires, nurtures, and protects them. Make them feel at home, thanks to reliable power generation and delivery no matter where they are. Help them live the lives they want by making manufacturing processes smoother, more intelligent, and more adaptable. Ensure people are where they want to be for the moments that matter most by creating smart mobility solutions. Siemens is helping to shape a country's future today. That's Ingenuity for life.

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**CLIMATEACTION** 



Climate Action was formed in official partnership with UN Environment 10 years ago in 2007 to promote and accelerate low carbon innovation and sustainability. Since COP13 in Bali, Climate Action have stood alongside UN Environment to address global climate challenges, demonstrate thought leadership and build partnerships between business, governments and investors to promote international sustainable development and advance the green economy.

Climate Action organise five forums per year and publish the Climate Action publication, Website, email newsletters and monthly free to access webinars. Copies of Climate Action's latest publication are available at Climate Action's booth in the Fiji Dome.

To receive Climate Action's free email newsletter visit  
**[www.climateactionprogramme.org](http://www.climateactionprogramme.org)**





# Headline and Platinum Sponsors

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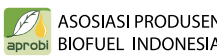


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## Media Partners



## Institutional Partners





# DATA<sup>FOR</sup> CLIMATE ACTION CHALLENGE

## Big data is transforming business and society.

Imagine if we could apply it to address one of the world's most pressing challenges—climate change.

UN Global Pulse, Western Digital and Skoll Global Threats Fund have joined forces to leverage big data for action on climate. The Data for Climate Action Challenge (D4CA) is an unprecedented open innovation competition connecting researchers with companies willing to donate their data. The goal: to generate insights relevant to climate mitigation, adaptation and resilience.

[DATAFORCLIMATEACTION.ORG](http://DATAFORCLIMATEACTION.ORG)

Western Digital



## JOIN THE DATA FOR GOOD REVOLUTION:

- Donate Data
- Provide Technology or Tools
- Donate Data Science Expertise

## STOP BY AND LEARN MORE

# Stand 10

## Welcome



On behalf of the team at Climate Action, I am delighted to welcome you to the 8th annual Sustainable Innovation Forum (SIF17) at this year's climate talks in Bonn.

The Forum is the largest business-focused side event taking place at COP23, bringing together over 600+ delegates and 75+ world-class speakers for two days of ideas and knowledge sharing that will fast track the green economy.

In 2015, 196 member states signed the Paris Agreement, a historic success towards combatting climate change. The accord provides a major opportunity for countries to develop low-carbon strategies that will build truly modern and sustainable economies. This year's talks represent an opportunity to build on the strength and cooperation which made the Paris Agreement such a success. SIF17 will hear from global leaders who are directly involved in this process, discussing the latest developments in clean energy, decarbonising transport, sustainable cities, the circular economy, climate finance and more.

You are also joining a host of representatives from national and regional governments, the private sector, development banks, the UN, NGOs, and academia.

Climate Action is particularly excited to be continuing our partnership with BMW Group as Headline Partners at SIF17, and would like to thank the Deutsche Post DHL Group for hosting us on the grounds of their beautiful Post Tower headquarters.

I hope the next two days will provide you with insight and inspiration.

A handwritten signature in black ink, appearing to read "Nick Henry".

Nick Henry,  
Chief Executive Officer  
**Climate Action**





# Agenda

Download the Sustainable Innovation Forum Networking App Today!



Visit

[www.cop-23.org/experience/networking-app/](http://www.cop-23.org/experience/networking-app/)

- See the full attendee list
- View any updates to the event agenda
- Setup meetings with event delegates
- Easily provide us with session feedback

How do you download the app?

1. Download the Whova app in the Apple App store or Google Play store.
2. Sign up by using the email address that you have used to register for the event.
3. Get Organised! Once you log-in to the app, you will be able to access the agenda, list of attendees, and logistics information.



# Agenda

Monday 13 November | Bonn, Germany  
High-Level Dialogue | Day 1

09:00	<b>Chairperson's Opening Remarks</b> <b>Nik Gowing</b> , International Broadcaster, United Kingdom
09:05	<b>Welcome Address</b> <b>Nick Henry</b> , CEO, <b>Climate Action</b>
09:10	<b>Opening Keynote Address: Achieving Measureable Global Action</b> <b>Aiyaz Sayed-Khaiyum</b> , Fijian Attorney-General; Minister for Economy, Public Enterprises, Civil Service and Communications, <b>Fiji</b>
09:20	<b>Keynote Address</b> <b>Bertrand Piccard</b> , Explorer, Chairman, <b>Solar Impulse Foundation</b> & President, <b>World Alliance for Efficient Solutions</b>
09:30	<b>High-Level Business Address: Sustainable Management; BMW Group's Contribution to decarbonisation</b> <b>Markus Duesmann</b> , Board of Management Member for Purchasing and Supplier Network, <b>BMW Group</b>
09:40	<b>Panel Discussion:</b> <b>Accelerating the Energy Transition Fast-tracking the Scale-up of Renewable Power</b> <ul style="list-style-type: none"> <li>• How partnerships between Government, energy and technology companies can accelerate the transition to a low-carbon electricity system</li> <li>• Sector coupling; next steps to merge individual energy systems</li> <li>• Creative strategies for financing and sourcing renewable energy</li> </ul> <b>MODERATOR: Nik Gowing</b> , International Broadcaster, United Kingdom <b>Pekka Lundmark</b> , President and CEO, <b>Fortum Corporation</b> <b>Roseanna Cunningham</b> , Cabinet Secretary for Environment, Climate Change and Land Reform, <b>Scotland</b> <b>Jakob Askou Bøss</b> , Senior Vice President of Corporate Strategy & Stakeholder Relations, <b>Orsted</b> <b>Vidar Helgesen</b> , Minister, <b>Ministry of Climate &amp; Environment, Norway</b> <b>Prof. Dr.-Ing. Armin Schnettler</b> , Senior Vice President Corporate Technology, Research in Energy and Electronics, <b>Siemens AG</b>
10:40	<b>Climate Leader Address: Why Smart Policies Matter for Sustainable Innovation</b> <b>Tom Steyer</b> , Founder and President, <b>Next Gen America</b>







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\* At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

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We make what matters work.

10:50

### Spotlight: The Energy Storage Revolution

- Understand how the changing energy sector business model is driving the need & value of energy storage
- Hear which innovative technologies are facilitating a seamless transition to a widely used energy storage system

**MODERATOR: Albert Cheung**, Head of Global Analysis, **Bloomberg NEF**  
**Cyrille Brisson**, Vice President EMEA, **Eaton Corporation**  
**Chris Brown**, Head of Core and Emerging Policy, **Ofgem**  
**Dr. Nina Skorupska CBE FEI**, Chief Executive, **Renewable Energy Association**

11:20

### Networking Break

11:50

### Climate Leader Interview: On the Path to Zero Emissions - Deutsche Post DHL Group's Mission 2050

**Christof Ehrhart**, Executive Vice President of Corporate Communications and Responsibility, **Deutsche Post DHL Group**

12:00

### Panel Discussion: Decarbonising the Transport Sector

- Be the first to hear about the future of the electric vehicle – advances in charging infrastructure, vehicles, batteries and costs
- Understand national & city approaches to reducing transport emissions and air pollution
- Hear innovative business models and public incentivisation schemes for new mobility trends

**MODERATOR: Nik Gowing**, International Broadcaster, United Kingdom  
**Hon. George Heyman**, Minister, **Ministry of Environment and Climate Change Strategy, British Columbia**  
**Dr Thomas Becker**, Vice President of Government Affairs, **BMW Group**  
**Dr Philipp Rode**, Executive Director, **LSE Cities**

12:35

### Climate Leader Insight: Accelerating Clean Transportation Faster Than The Speed of Sound

**Tim Houter**, Chief Executive Officer, **Hardt Global Mobility**

12:45

### Panel Discussion: Roadmap to a Sustainable Global Mobility System

- How to ensure systemic change to unleash the potential of digitalization and connectivity in the global transport sector
- Improving efficiency and reducing emissions in heavy goods road transportation
- Where are we now in deploying cleaner modes of transport in aviation, shipping and rail?
- How can we incentivise low-emission mobility and new technologies deployment on a national and global scale?

**MODERATOR: Paul Simons**, Deputy Executive Director, **IEA**  
**Matt Rodriguez**, Secretary, **California Secretary for Environmental Protection**  
**Paulus Tjakrawan Taningdjaja**, Commissioner, **Indonesia Biofuels Producer Association**  
**Karen Hamberg**, Vice-President, Industry and Government Relations, **Westport**





13:15	Networking Lunch
13:15	BMW Group’s VIP Lunch - by invitation
14:15	<b>Climate Leader Interview:</b> The IPCC’s key role in Achieving Paris Agreement Goals and SDGs INTERVIEWER: <b>Nik Gowing</b> , International Broadcaster, United Kingdom <b>Dr Hoesung Lee</b> , Chair, <b>IPCC</b>
14:30	<b>Panel Discussion:</b> Climate Smart Agriculture as a Systemic Response to Climate Change <ul style="list-style-type: none"><li>• From farm to fork: How to combat current agri-practices that are intensifying climate change and ensure long-term food security</li><li>• Understand how nations are using agriculture to adapt and build resilience to climate change</li><li>• Hear how promising innovative technologies are transforming every link in the food chain</li></ul> MODERATOR: <b>Andrew Steer</b> , Executive Director, <b>World Resources Institute</b> <b>Gemedo Dalle</b> , Minister, <b>Ministry of Environment, Forest &amp; Climate Change, Ethiopia</b> <b>Naoko Ishii</b> , CEO & Chairperson, <b>Global Environment Facility (GEF)</b> <b>Thoriq Ibrahim</b> , Minister, <b>Ministry for Environment &amp; Energy, Maldives</b> , Chair, <b>Alliance of Small Island States (AOSIS)</b> <b>Carl Pendragon</b> , CEO, <b>SkyMining</b>
15:30	<b>Climate Leader Insight</b> <b>Erik Solheim</b> , Executive Director, <b>UN Environment</b>
15:50	<b>Climate Leader Address:</b> Clean Air – Cities have both the Problem and the Solutions <b>Raymond Johansen</b> , Governing Mayor, <b>Oslo</b>
16:00	<b>Panel Discussion: Innovative Solutions for the International Clean Air Crisis</b> <ul style="list-style-type: none"><li>• Zeroing in on change: The role of zero carbon mass transit, freight and logistics in achieving clean air in cities</li><li>• How big data and artificial intelligence are providing solutions in predicting pollution and supporting decisions on emission reduction actions</li><li>• How to overcome the health and economic risks of air pollution with effective national and local government policies</li></ul> MODERATOR: <b>Dr. Maria Neira</b> , Director, Public Health and the Environment Department, <b>World Health Organisation</b> <b>Davida Herzl</b> , CEO and Co-founder, <b>Aclima</b> <b>Alejandro Agag</b> , CEO, <b>Formula E</b> <b>Rodrigo Aguilar Benignos</b> , International Affairs Adviser to the Governor, <b>State of Jalisco, Mexico</b> <b>Salvador Samitier</b> , Head of the Catalan Climate Change Office, <b>Catalonia, Spain</b>

16:50	Networking Break
17:20	<b>Climate Leader Insight:</b> Linking Forests, Indigenous Communities and Climate Change Solutions: the Peruvian Experience <b>Elsa Patricia Galarza Contreras</b> , Minister, <b>Ministry of Environment, Peru</b>
17:35	<b>Panel Discussion: Hydrogen: A global vision for scale</b> How hydrogen technologies can help meet climate goals, energy security and competitiveness targets around the world. Industry leaders united in the “Hydrogen Council” coalition will jointly present their vision for hydrogen’s role in supporting global sustainability efforts and unveil the world’s first comprehensive roadmap for these innovative technologies <b>Takeshi Uchiyamada</b> , Chairman, <b>Toyota</b> <b>Prof. Aldo Belloni</b> , Chairman of the Executive Board and Chief Executive Officer, <b>Linde</b> <b>Anne Stevens</b> , Non-executive Director, <b>Anglo American</b> <b>Bernd Heid</b> , Senior Partner, <b>Mckinsey</b> <b>Woong-chul Yang</b> , Vice Chairman, <b>Hyundai</b> <b>Bertrand Piccard</b> , Explorer, Chairman, <b>Solar Impulse Foundation</b> & President, <b>World Alliance for Efficient Solutions</b>
18:05	<b>Chairperson’s closing remarks</b> <b>Nik Gowing</b> , International Broadcaster, United Kingdom
18:10	Evening Networking Drinks



Let's create a world  
that runs entirely on  
green energy.



A decade ago, as DONG Energy, we started transforming from a black to a green energy company. Today, as Ørsted, we have become a global leader in offshore wind. In 2017, we succeeded in driving the cost of offshore wind below that of new coal and gas power. By 2023 we will no longer use coal and have reduced our CO<sup>2</sup> emissions by 96% compared to 2006.



Agenda

Tuesday 14 November | Bonn, Germany  
Innovation in Action | Day 2

07:30	<b>Cities Breakfast Roundtable for Clean Air and Climate – invitation only</b> <b>Erik Solheim</b> , Executive Director, <b>UN Environment</b> <b>Bertrand Piccard</b> , Explorer, Chairman, <b>Solar Impulse Foundation</b> & President, <b>World Alliance for Efficient Solutions</b>
09:00	<b>Chairperson's welcoming remarks</b> <b>Nik Gowing</b> , International Broadcaster, United Kingdom
09:05	<b>Welcome Address</b> <b>Ashok Sridharan</b> , Mayor, <b>City of Bonn</b>
09:15	<b>Climate Leader Interview:</b> <b>Patrick Child</b> , Deputy Director-General – DG Research and Innovation (DG RTD), <b>European Commission</b> and Chair of <b>Mission Innovation Steering Committee</b>
09:30	<b>Climate Leader's Insight</b> <b>Magnus Berntsson</b> , President of the <b>Assembly of European Regions</b> and of <b>R20</b> , Regions of Climate Action
09:40	<b>Keynote Speech: Mapping the Journey to a Carbon-free Future</b> <b>Dr. Roland Busch</b> , Chief Technology Officer and Member of the Managing Board, <b>Siemens AG</b>
09:50	<b>Panel Discussion: Sustainable, Liveable Cities</b> Retrofitting existing and building new urban environments for improved, lower carbon living <ul style="list-style-type: none"><li>• How to galvanise strategic PPPs between local governments, business and investors to fast track city sustainability and resilience</li><li>• How to ensure resilience in cities with flood-proofing and coastal protection systems</li><li>• Where are we now on the path to adopting a universal green performance standard and certification system for buildings &amp; homes</li></ul> <b>MODERATOR: Paul Simpson</b> , CEO, <b>CDP</b> <b>Dr. Cathy Oke</b> , Councillor, Chair Environment Portfolio, <b>City of Melbourne</b> <b>Jake Layes</b> , Director, Market Development Sustainability, North America, Europe, Asia Pacific, <b>Autodesk</b> <b>Neel Strøbæk</b> , Group Market Director, Sustainability and CR, <b>Ramboll</b> <b>Andreas Wolter</b> , Vice Mayor, <b>City of Cologne</b>





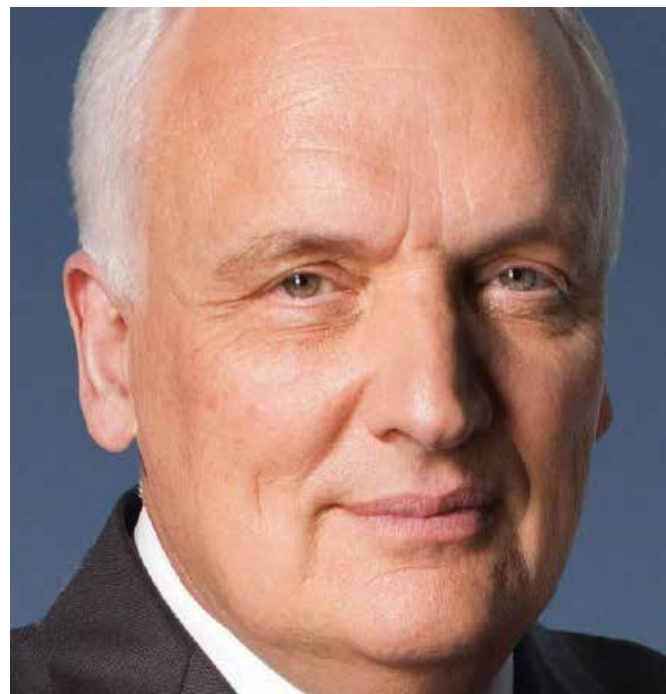
10:40	<b>Climate Leader Insight</b> Jerry Brown, Governor, California State
11:00	<b>Networking Break</b>
11:30	<b>Interview: How Data Can Enhance Climate Policy and Solutions</b> INTERVIEWER: <b>Nik Gowing</b> , International Broadcaster, United Kingdom <b>Dave Tang</b> , Senior Vice President & General Manager, <b>Western Digital</b> <b>Robert Kirkpatrick</b> , Director, <b>UN Global Pulse</b>
11:50	<b>Fireside Chat: Fostering and Financing Sustainable Infrastructure</b> INTERVIEWER: <b>Nik Gowing</b> , International Broadcaster, United Kingdom <b>Lord Nicholas Stern</b> , Chair, <b>Grantham Research Institute</b>
12:10	<b>Panel Discussion: Scaling up Finance to Reach the Paris Agreement Commitments</b> <ul style="list-style-type: none"><li>• Where is the money coming from now? Unlocking private capital through financial innovation and new financial instruments to scale up sustainable solutions</li><li>• How to expand the use of green bonds, risk management instruments and blended finance</li><li>• Unlocking climate-smart investment opportunities in emerging markets</li></ul> <b>MODERATOR: Eric Usher</b> , Head, <b>UNEP-FI</b> <b>Carole Dieschbourg</b> , Minister, <b>Ministry for the Environment, Luxembourg</b> <b>Niklas Ekvall</b> , CEO, <b>AP4</b> <b>Jan Szyszko</b> , Minister, <b>Ministry of Environment, Poland</b> <b>Dr. Gerald Podobnik</b> , Global Head of Capital Solutions & Sustainable Financing, <b>Deutsche Bank AG</b>
13:00	<b>Networking Lunch</b>
13:00	<b>Siemens' VIP Lunch - by invitation</b>
14:00	<b>Climate Leader Insight: Climate as an Opportunity for Action and Innovation</b> His Excellency <b>Dr. Thani bin ahmed Al Zeyoudi</b> , Cabinet Member and Minister of Climate Change and Environment, <b>UAE</b>
14:10	<b>Panel Discussion:</b> <b>The Role of Carbon Pricing, Taxing &amp; Trading in Rapid Emissions Reduction</b> <ul style="list-style-type: none"><li>• Why entrenching voluntary carbon pricing within business strategy is a key financial tool for reducing risks, costs and emissions</li><li>• How to accelerate the emergence of an international carbon price in order to unleash the full emissions reduction potential of the Paris Agreement</li><li>• Case studies from those doing it and the potential impact of China's planned emissions trading system</li></ul> <b>MODERATOR: Lance Pierce</b> , President, North America, <b>CDP</b> <b>Jean-Pierre Clamadiou</b> , CEO and member of the Board of Directors, <b>Solvay</b> <b>Dr. Stephen Lucas</b> , Deputy Minister, <b>Environment and Climate Change, Canada</b> <b>Francisco Benedito</b> , Co-founder, <b>Climate Coin</b> <b>Ted Halstead</b> , Chairman & CEO, <b>Climate Leadership Council (USA)</b>



15:10	<b>Climate Leader Insight: A Progress Update on the Paris Agreement</b> Laurence Tubiana, CEO, European Climate Foundation
15:25	<b>Panel Discussion: Shifting your Organisation Into The Circular Economy</b> <ul style="list-style-type: none"><li>• How to develop a strong business case to overcome the challenges of adopting circular economy practices</li><li>• Understand how focusing on local resources will combat budgetary uncertainties and sustain your local economy</li><li>• Develop innovative ways to reuse waste during the manufacturing process</li></ul> <b>MODERATOR: Wayne Hubbard</b> , Chief Operating Officer, <b>London Waste and Recycling Board</b> <b>Kimmo Tiilikainen</b> , Minister, <b>Ministry of Environment, Finland</b> <b>Siim Kiisler</b> , Minister, <b>Ministry of the Environment, Estonia</b> <b>Henrik Ehrnrooth</b> , Chairman, <b>Climate Leadership Council (Finland)</b> <b>Tarsicio Granizo</b> , Minister, <b>Ministry for Environment, Republic of Ecuador</b>
16:20	<b>Climate Leader Insight:</b> <b>California and The Dawn of the Clean Energy Era</b> David Hochschild, Commissioner, California Energy Commission
16:40	<b>Networking Break</b>
17:00	<b>Expert Led Roundtables - Accelerating Low Carbon Innovation:</b> In-depth discussion sessions moderated by an expert in the field. <ul style="list-style-type: none"><li>• The future of energy storage <b>Nick Turton</b>, External Affairs Director, <b>Energy Institute</b></li><li>• Policy framework for low carbon innovation <b>Heino Von Meyer</b>, Head OECD Berlin Centre, <b>OECD</b></li><li>• Financing climate adaptation <b>Ryan Martel</b>, Federal Policy Program Senior Manager, <b>Ceres</b></li><li>• Boosting circular economy innovation <b>Wayne Hubbard</b>, Chief Operating Officer, <b>London Waste and Recycling Board</b></li><li>• Encouraging low carbon entrepreneurship <b>Jouni Keronen</b>, Executive Director, <b>Climate Leadership Council</b></li><li>• The challenge of changing mindset <b>Jayanti Kirpalani</b> and <b>Golo J. Pilz</b>, <b>Brahma Kumaris</b></li><li>• Solving the air pollution crisis <b>Davida Herzl</b>, CEO and Co-founder, <b>Aclima</b></li></ul>
18:00	<b>Chairperson's final remarks and conference close</b> <b>Nik Gowing</b> , International Broadcaster, United Kingdom



## Meet the Chairman



**Nik Gowing**  
International Broadcaster

Nik Gowing has been a foreign affairs specialist and presenter at ITN, Diplomatic Editor for Channel 4 News and a main news presenter for the BBC's international 24-hour news channel BBC World News 1996-2014. He presented The Hub with Nik Gowing, BBC World Debates, Dateline London, plus location coverage of major global stories. In addition, Nik has published several works and studies, including 'The Wire', 'Thinking the Unthinkable' and 'Skyful of Lies and Black Swans', and he is a Member of Council of the Royal United Services Institute.

## Speakers



**Alejandro Agag**  
Founder and CEO, Formula E

After graduating from university he moved into politics, quickly establishing himself and becoming the personal assistant to the Spanish Prime Minister. In 1999, he won a seat in the European Parliament at the age of 28, becoming the youngest Spanish person ever to do so. In 2001, he decided to leave the world of politics and move into motorsport - where together with his business partner Flavio Briatore, they purchased the F1 TV rights in Spain. A few years later Agag purchased the Campos Racing GP2 Team, revamping it into the highly-successful Barwa Addax Team. After investing in the English football club Queens Park Rangers, Agag, together with business partner Enrique Banuelos, began Formula E Holdings - winning the tender to promote the new FIA Formula E Championship, the world's first fully electric single-seater racing series.



**His Excellency Dr. Thani bin Ahmed Al Zeyoudi**  
Cabinet Member and Minister of Climate Change and Environment, United Arab Emirates

His Excellency Dr. Thani Ahmed Al Zeyoudi was appointed as the Minister of Climate Change and Environment for the United Arab Emirates in February 2016. Previously, His Excellency served as Permanent Representative of the UAE to the International Renewable Energy Agency (IRENA), 2010-2017. He also was the Director of the Department of Energy and Climate Change (DECC) within the Ministry of Foreign Affairs, 2010- 2016. H.E. Dr. Al Zeyoudi played a major role in the UAE's successful campaign in 2009 in host IRENA, the first international organization dedicated to renewable energy.



**Dr Thomas Becker**  
Vice President of Government Affairs, BMW Group

Since 2007 Thomas Becker holds the position Vice President Governmental Affairs at the BMW Group in Munich. In his position he supervises the worldwide representation of BMW Group's political interests, oversees the company's approach to integrate political topics into the product and business communication of the BMW Group, and steers the sustainability communication of the company. Before his current role at the BMW Group, he held the position of Deputy Managing Director of the VDA with responsibility for the co-management of the association.



Under the Patronage of His Highness Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai, Minister of Finance of the UAE and President of DEWA

As part of Dubai Electricity and Water Authority's Green Week Initiative

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October 2018

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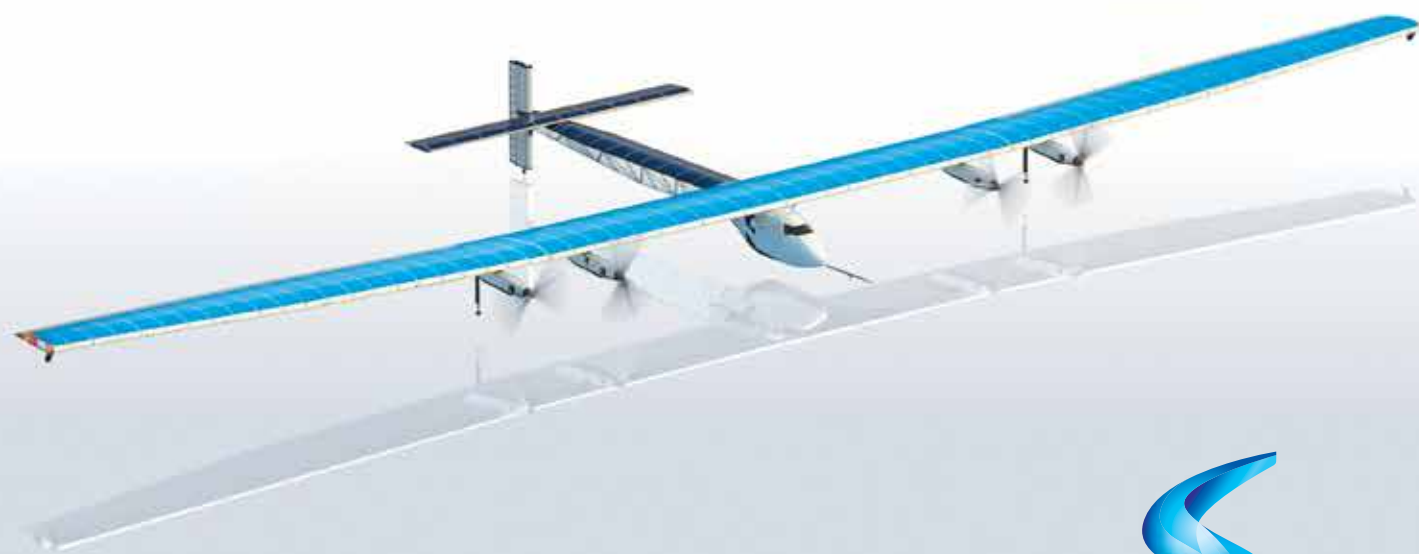
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## **Prof. Aldo Belloni**

*Chairman of the Executive Board and Chief Executive Officer, Linde*

Mr Belloni joined Linde in 1980 as Sales Engineer Gas Constructions. Since December 2016, Mr. Belloni is CEO, Employment Director. He is responsible for the Americas segment of the Gases Division as well as for Gist, Opportunity & Project Development and the Corporate & Support Functions Corporate Communications & Investor Relations, Corporate Internal Audit, Corporate Office, Corporate Strategy & Market Intelligence, Group Human Resources, Group Information Services, Group Legal & Compliance, Group Mergers & Acquisitions, SHEQ [Safety, Health, Environment & Quality]. In 1986, he was Departement Manager Group gas segmentation and washing. In 1990 he was appointed President of Lotepro Corp., Valhalla, NY, USA. From 1994, he became Member of Executive Management, Linde Engineering Division. He was Member of the Executive Board between 2000 and 2014.



## **Francisco Benedito**

*Co-founder, Climate Coin*

Fran Benedito is the President of the Climatecoin Foundation and co-founder of Climatecoin, a new and innovative cryptocurrency designed to fight climate change.

Mr. Benedito started his first company at the age of 16, an online bookstore in Spain. He worked in banking for 14 years, running an M&A firm and acting as regional manager for a leading bank focussed on wealth management and technology. He has founded a number of different tech start-ups and often acts as an independent investment advisor. He is passionate about business and technology, especially the potential of blockchains to combat climate change. His focus today is to grow Climatecoin into an organisation that can make a positive impact in the world. Born in Spain and fluent in 4 languages, Mr. Benedito has a degree in Law in Ceu San Pablo University of Spain, an MBA in the CEU San Pablo, Sorbonne and Nanterre University, and a PDD in IE Business School Spain.



## **Mr. Rodrigo Aguilar Benignos**

*International Affairs Adviser to the Governor, State of Jalisco, Mexico*

Rodrigo Aguilar is internationally recognized for developing relevant strategic projects to establish local governments or companies, particularly Mexican, and the international community. His international consulting clients include banking, software-development, cement, consumer goods, hotel and tourism companies, including several with earnings over 10 billion dollars, as well as governments of many Mexican states and municipalities. Since 2007 he lives in Bethesda, Maryland where he is the CEO of Wiljan Consulting LLC, a D.C. – based Political, business and legal consulting firm that focuses of providing advice on both sides of the U.S. – Mexico border. Specifically, he provides advice and analysis regarding policy issues and proper contacts for the firm's clients, strategic planning for their cross-over operations and investments in Mexico, as well as crafting the corresponding strategic plans to conduct their internationalization process.





### **Magnus Berntsson**

*President of the Assembly of European Regions and of R20, Regions of Climate Action*

Magnus Berntsson is the President of the Assembly of European Regions. He is also President of R20 - Regions of climate action and President of the Regional Council of Västra Götaland in Sweden. He grew up on the little island of Fotö in the northern archipelago of Gothenburg. He has long been committed to the regional level, which in Sweden is in charge of healthcare and regional development issues.



### **Chris Brown**

*Head of Core and Emerging Policy, Ofgem*

Chris leads Ofgem's work on core and emerging policy, dealing with the state of current market arrangements and any potential barriers to new emerging technologies and business models. This includes the key areas of electric vehicles, energy storage and local energy.

Prior to this role, he was head of gas systems at Ofgem leading on gas transmission and distribution policy and representing Ofgem at ACER (Agency for the Cooperation of Energy Regulators) and CEER (Council of European Energy Regulators) on gas issues including interconnectors and storage.



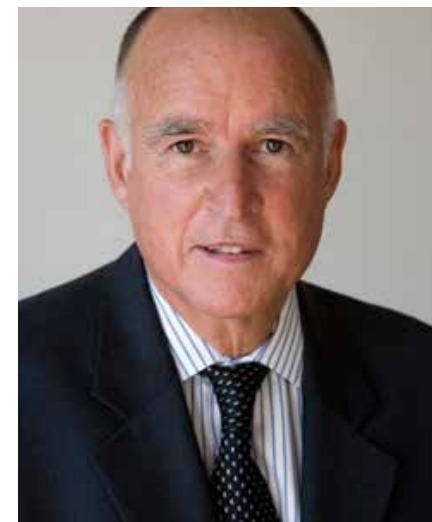
### **Jakob Askou Bøss**

*Senior Vice President of Corporate Strategy & Stakeholder Relations, DONG Energy Group*

Jakob is Senior Vice President of Corporate Strategy & Stakeholder Relations in DONG Energy. He oversees corporate strategy, group communication, public affairs, sustainability, regulatory affairs and corporate branding.

Jakob joined DONG Energy in 2004 and has been deeply involved in the strategic transformation of DONG Energy from one of the most coal-intensive utilities in Europe to a global leader in green energy.

He was previously a consultant with McKinsey & Company.



### **Jerry Brown**

*Governor, California*

Edmund G. Brown Jr. was elected California Secretary of State in 1970 and Governor in 1974 and 1978. After his governorship, Brown lectured and traveled widely, practiced law, served as California's Democratic Party chairman and ran for president. Brown was elected Oakland Mayor in 1998 and California Attorney General in 2006. He was elected Governor again in 2010 and reelected in 2014 to serve a historic fourth term. Under Brown, California has created more than 2.5 million new jobs, eliminated a \$27 billion budget deficit and enacted sweeping environmental, public safety, immigration, healthcare, water, transportation, pension and economic development reforms.



### **Cyrille Brisson**

*Vice President EMEA, Eaton Corporation*

Cyrille Brisson is Vice President for the EMEA region at Eaton Corporation. Beyond the classic marketing scope, this role includes responsibility for looking into the way markets are being changed by technology, customers' requirements or societal pressures, and the consequences of these changes both for our business and for the way markets operate. It also covers Eaton's involvement in trade associations and standard-setting bodies that contribute to creating interoperability and safety standards across the electrical industry.



### **Roland Busch**

*Chief Technology Officer and Member of the Managing Board, Siemens AG*

Roland Busch is Chief Technology Officer and Member of the Managing Board of Siemens AG. He is responsible for the Divisions Building Technologies and Mobility as well as for Corporate Technology, Corporate Development and the company's activities in the area of sustainability. He is also responsible for next47, a separate legal entity of Siemens that drives innovation with a focus on start-ups, and for Siemens' regional businesses in the Middle East and the Commonwealth of Independent States (CIS).





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**Albert Cheung**  
*Head of Global Analysis, Bloomberg NEF*

Albert manages the global research team at Bloomberg New Energy Finance (BNEF), the leading provider of independent research on transformation in the energy sector. Albert's group is responsible for BNEF's research in renewable energy, energy storage, energy smart technologies and advanced transport, as well as cross-sector modelling. Albert joined BNEF in 2009 and has previously led the company's product management group, as well as its energy smart technologies analyst team. Albert holds a MEng in Electrical and Information Engineering from the University of Cambridge.



**Patrick Child**  
*Deputy Director-General – DG Research and Innovation (DG RTD), European Commission and Chair of Mission Innovation Steering Committee*

Policy for management and implementation of the EU's €77bn research and innovation programme by the Commission services, executive agencies and other implementing bodies including legal aspects, IT systems, audit and business processes. Specific responsibility for research and innovation into clean energy technologies, and Commission representative and elected chair of the steering committee of Mission Innovation (a coalition of 23 countries committed to doubling research in clean energy by 2020). Until April 2016, Patrick Child was Managing Director of the European External Service with responsibility for administration and finance, covering human resources policy, security and the budget.



**Jean-Pierre Clamadiou**  
*CEO and member of the Board of Directors, Solvay*

Jean-Pierre Clamadiou joined Solvay in September 2011 as member of the Executive Committee, immediately after Solvay acquired Rhodia. Before that, he was Rhodia's Chief Executive Officer since October 2003 and since March 2008 also Chairman of the Board of Directors.

Mr Clamadiou is member of the Board of Directors of French car parts maker Faurecia and of French insurer Axa. He is member of the Board of Directors of the International Chemical Industry Council (ICCA), as well as member of the Executive Committee of the World Business Council for Sustainable Development (WBCSD).







**Roseanna Cunningham**  
*Cabinet Secretary for the Environment, Climate Change and Land Reform, Scotland*

Roseanna Cunningham held a number of local and national offices in the SNP, including Deputy Leader from 2000-2004.

She has remained a member of the Scottish Parliament from 1999 to present and has been a Committee Convener for the Justice Committee, the Health Committee and the Rural Affairs and Environment Committee. She became Minister for the Environment in 2009 and Cabinet Secretary for Fair Work, Skills and Training in November 2014.

Roseanna Cunningham was appointed Cabinet Secretary for Environment, Climate Change and Land Reform in May 2016.



**Gemedo Dalle**  
*Minister, Ministry of Environment, Forest & Climate Change, Ethiopia*

As of November 2016, Dr. Gemedo Dalle has been appointed as Minister for Environment, Forest and Climate Change Ministry of the Federal Republic of Ethiopia. Dr. Gemedo Dalle is among the African Negotiators in International Conventions such as the Nagoya protocol on Access and Benefit Sharing of the Convention on Biological Diversity (CBD) and International Treaty on Plant Genetic Resources (ITPGRFA). He is CBD and ITPGRFA National Primary Focal Point for Ethiopia. Dr. Gemedo Dalle served as Chair of the CBD Subsidiary Body for Scientific and Technical and Technological Advises (SBSTTA) from November 2012 to October 2014. His professional focus is on biodiversity conservation and management, ecosystem management and vegetation ecology.



**Carole Dieschbourg**  
*Minister, Ministry for the Environment, Luxembourg*

Following the legislative elections of 20 October 2013, Carole Dieschbourg joined the government as Minister for the Environment on 4 December 2013 in the coalition government formed by the Democratic Party (DP), the Luxembourg Socialist Workers' Party (LSAP) and the Green Party ("déi gréng"). In December 2015, under the Luxembourg Presidency of the Council of the European Union, Carole Dieschbourg co-ordinated the position of the European Union at the Paris United Nations Climate Change Conference (COP21).



**Markus Duesmann**  
*Board of Management Member for Purchasing and Supplier Network, BMW Group*

Markus Duesmann, 48, is Member of the Board of Management of BMW AG, Purchasing and Supplier Network. He joined the BMW Group in 2007 as head of Powertrain for the former BMW Sauber Formula One team. He went on to become head of Driving Dynamics. Before he was appointed as a board member he was responsible for the topic of powertrains in its entirety in the company's development division.



**Professor Dr. rer. pol. Christof E. Ehrhart**  
*Executive Vice President of Corporate Communications and Responsibility, Deutsche Post DHL Group*

Christof Ehrhart is Head of Corporate Communications & Responsibility and Executive Vice President at Deutsche Post DHL Group, with about 500.000 employees in more than 200 countries and territories the world's leading mail and logistics Group. In 2015, together with the operations team of Deutsche Post AG, he launched Deutsche Post DHL Group's refugee aid initiative. Since 2016 he is a member of the World Economic Forum's "Global Future Council on the Humanitarian System". Prior to joining Deutsche Post DHL Group in 2009, he was in charge of Corporate Communications at European Aeronautic Defence and Space Company (EADS), the mother company of Airbus.



**Henrik Ehrnrooth**  
*Chairman, Climate Leadership Council (Finland)*

Mr. Ehrnrooth is a respected Finnish business leader and an ambassador for the sustainable development of the world's forests, in the context of the emerging bioeconomy.

Today, Mr. Ehrnrooth is Chairman of the Board of three organisations - Pöyry PLC, an international consulting and engineering company with deep global expertise in the energy and industry sectors. Otava Group Ltd, a leading Finnish graphic publisher, whose main business areas include books, trade and magazines. Climate Leadership Council, that has an overarching goal to actively participate in the mitigation of climate change. He is also a Member of the Board of the Marcus Wallenberg Foundation.







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**Niklas Ekvall**  
**CEO, AP4**

Niklas Ekvall is the CEO of AP4, a Swedish public pension fund. AP4 pioneered portfolio decarbonization in 2012 and co-founded of the Portfolio Decarbonization Coalition (PDC) in 2014.

Mr. Ekvall's previous positions include head of treasury at Nordea Bank, head of asset management at Nordea, Carnegie and AP3 respectively. He holds a PhD from the Stockholm School of Economics where he has also been adjunct professor and lecturer.



**Elsa Galarza**  
**Minister of Environment, Peru**

Ms. Elsa Galarza is Minister of Environment of Peru since July 2016. Previously, she was Deputy Minister of Fisheries of the Ministry of Production of Peru (2009-2010), and adviser to the Minister of Economy and Finance of Peru (2010) and member of the Multisectorial Group in charge of the creation of Ministry of the Environment of Peru. She has also been a consultant to the World Bank, the Inter-American Development Bank (IDB), the UN Food and Agriculture Organization (FAO), Andean Development Corporation (CAF), among others.

Ms. Galarza holds a Bachelor and Licentiate in Economics from Universidad del Pacifico (Lima) and a Master in Agricultural Economics from Iowa State University. She has been Principal Professor of the Department of Economics of Universidad del Pacifico and Director of the Research Center of the same university.



**Tarsicio Granizo**  
**Minister, Ministry for Environment, Republic of Ecuador**

Tarsicio Granizo (born 17 May 1962) is an Ecuadorean biologist, researcher and planner for 35 years in environmental conservation for governmental and non-governmental organizations in several countries in Latin America. He has authored and co-authored several scientific publications in Ecuador and other countries. He was appointed Minister of the Environment on 24 May 2017. Has a degree in Biological Sciences from the Pontifical Catholic University of Ecuador and studies in Ecoauditories and Environmental Business Planning of the Institute of Ecological Research in Malaga – Spain.







**Ted Halstead**  
*Chairman & CEO, Climate Leadership Council (USA)*

Ted Halstead is the Chairman and CEO of the Climate Leadership Council, an international policy institute founded in collaboration with a who's who of business, opinion and environmental leaders to promote a carbon dividends framework as the most cost-effective, equitable and politically viable climate solution.

Previously, Halstead founded and led two other successful think tanks. His first, which he launched at 25, coordinated the Economists' Statement on Climate Change, signed by 18 Nobel laureate economists. His second, New America, has become one of the most influential think tanks in Washington.



**Karen Hamberg**  
*Vice President, Industry and Government Relations, Westport*

Ms. Hamberg joined Westport in 2001 and was appointed Vice President, Strategy in 2012 and Vice President, Industry and Government Relations in 2015. Westport Fuel Systems invents, engineers, manufactures and supplies advanced clean-burning fuel systems and components to address the challenges of global climate change and urban air quality. Karen has held different leadership assignments within Westport Fuel Systems, responsible for Corporate Strategy, Market and Competitive Intelligence, Sustainability and Environmental Performance, and Government and Regulatory Affairs. Karen was named to Canada's Clean 50™ for 2017 for her contributions to advance sustainability and clean capitalism.



**Vidar Helgesen**  
*Minister, Ministry of Climate & Environment, Norway*

Vidar Helgesen (born 21 November 1968) is a Norwegian diplomat and politician for the Conservative party. He was appointed Minister of Climate and Environment on 16 December 2015, having served as Minister of EEA and EU Affairs and Chief of Staff to Prime Minister Erna Solberg from 2013 to 2015. Prior to this, he served as Secretary-General of the International Institute for Democracy and Electoral Assistance from 2005 to 2013. He graduated from the Faculty of Law, University of Oslo, with a Master of Laws.



**Davida Herzl**  
*CEO and Co-founder, ACLIMA*

An entrepreneur by DNA, Davida leads engineers, scientists, business leaders, and designers who are committed to building technology that serves humanity and enables world-changing business innovation. To advance Aclima's mission, Davida has brought together public and private players, like Google and the U.S. Environmental Protection Agency, to harness the power of large-scale environmental sensor networks to improve both human health and planetary health. With a commitment to big impact, Davida applies a multidisciplinary approach to creating new technologies and powerful partnerships that deliver integrated financial, environmental, and social returns. Davida was named to the 2017 Grist 50 Fixers List.



**Honourable George Heyman**  
*Minister of Environment and Climate Change Strategy, Government of British Columbia*

Minister Heyman was appointed the new British Columbia Minister of Environment and Climate Change Strategy in July 2017.

Minister Heyman is a strong believer that climate action can go hand in hand with jobs intensive economic growth. As minister, his priorities include consulting broadly to implement a comprehensive strategy to meet carbon pollution reduction targets while helping BC prosper economically in a modern, diverse economy. He also believes that our future prosperity depends on public trust in a science-based and transparent environmental assessment process, conducted in partnership with indigenous people, that provides industry with clear conditions and pathways to success.



**David Hochschild**  
*Commissioner, California Energy Commission*

Commissioner Hochschild's career has spanned public service, environmental advocacy and the private sector. He first got involved in the solar energy field in 2001 in San Francisco as a Special Assistant to Mayor Willie Brown where he launched a citywide \$100 million initiative to put solar panels on public buildings. He went on to co-found the Vote Solar Initiative, a 60,000-member advocacy organization promoting solar policies at the local, state and federal level. He served as executive director of a national consortium of leading solar manufacturers and worked for five years at Solaria, a solar company in Silicon Valley.





# Hydrogen Council

Launched at the 2017 World Economic Forum in Davos at the presence of industry and policy leaders from Europe, Asia and North America, the Hydrogen Council is a global initiative of leading energy, transport and industry companies with a united vision and ambition for hydrogen to foster the energy transition.

The CEO-level group is currently made up of 18 leading energy, transport and industry multinationals, supported by an additional 9 companies – all working together to foster high-level support for hydrogen technology and ultimately achieve the Council's aim to see hydrogen technologies play an essential role in the global energy transition.

## HYDROGEN IS READY TO SCALE

We recommend the following actions to policy makers to unlock the contribution of hydrogen to the energy transition:

- 1 Provide long-term and stable policy frameworks**
- 2 Develop coordination and incentive policies**
- 3 Facilitate harmonization of industry standards**

Today, hydrogen products are used and trusted by some of the leading companies in the world. The breadth of hydrogen's proposition appeals to players across the whole energy value chain, which in turn creates sufficient industrial capacity to deliver at scale.

*Benoit Potier, CEO of Air Liquide and Co-Chair of Hydrogen Council*



Hydrogen has reached the cross between technological maturity, commercial opportunity and political demand. Our goal as the Hydrogen Council is to engage at the highest level and accelerate its shift to mass-market that will fully unlock its many benefits."

*Takeshi Uchiyamada, Chairman of Toyota Motor Corporation and Co-Chair of Hydrogen Council*



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**Tim Houter**  
Chief Executive Officer, Hardt Global Mobility

Tim Houter is the Chief Executive Officer of HARDT, the first European company developing and realizing the hyperloop. Previously he was the team captain of the Delft Hyperloop team which won the SpaceX Hyperloop Pod Competition. His company recently closed its seed investment with the Dutch Railways and the Innovation Fund UNIQ to further pursue his dream: Creating a global village.

Tim is an Engineer by heart, having a background in Mechanical Engineering at the Delft University of Technology he also built record-breaking electric race cars, submarine swarms, and a hyperloop prototype.



**Wayne Hubbard**  
Chief Operating Officer, London Waste and Recycling Board

Wayne is the Chief Operating Officer of the London Waste and Recycling Board, where he oversees the day to day running of the organisation. He has been heavily involved in LWARB since its establishment and has substantial local government and waste industry experience. Prior to LWARB, Wayne worked as Head of Waste Policy at the Greater London Authority and has also held roles at the London Borough of Haringey and East Sussex County Council. Wayne has over 20 years' experience in the waste industry.



**His Excellency Mr. Thoriq Ibrahim**  
Minister of Environment and Energy, Republic of Maldives

His Excellency Mr. Thoriq Ibrahim was appointed as the Minister of Environment and Energy of the Republic of Maldives on November 2013. Minister Thoriq holds the portfolio of protecting natural environment and its resources, managing climate change, coordinating the sustainable development goals, provision of the energy, water, sewerage and waste management services in the Maldives.

Minister Thoriq also oversees and provides policy direction to the affiliated agencies under the Ministry – the Environmental Protection Agency, the Maldives Energy Authority, the Maldives Meteorological Service, and the Biosphere Reserve Office.

Prior to his appointment as the Minister of Environment and Energy, he has served both in the private and public sector for more than 17 years in the field of building services, engineering design, and management of construction projects as well as mechanical and electrical building maintenance services.





**Naoko Ishii**  
*CEO & Chairperson, Global Environment Facility (GEF)*

Naoko Ishii has served as the CEO and Chairperson for the Global Environment Facility (GEF) since August 2012. In October 2015, the GEF Council unanimously agreed to extend her tenure for the second term until August 2020.

Previously, Ms. Ishii was the Deputy Vice Minister of Finance of Japan, where she was responsible for Japan's international financial and development policies, and for its global policies on environmental issues such as climate change and biodiversity. She led the Japanese delegation at the Transition Committee for designing the Green Climate Fund.



**Raymond Johansen**  
*Governing Mayor, Oslo*

In October 2015 Raymond Johansen started his term as Governing Mayor of Oslo. Oslo is one of the fastest growing cities in Europe. The capital is a green city with a unique access to nature, pulsating cultural life, great academic institutions and a business community full of initiative. Governing Mayor Johansen has very ambitious goals for the future development of Oslo, ensuring a vibrant, green and climate-smart city with equal opportunities for everyone. Johansen is educated as a plumber, but most of his working life has been dedicated to politics.



**Siim Kiisler**  
*Minister of the Environment, Estonia*

Siim Kiisler (1965, Tallinn) was appointed Minister for the Environment in June 2017. Throughout the years, Mr Kiisler has held several government positions, having served as the Minister of Regional Affairs (2008-2014), and as Assistant Minister of Economic Affairs and Communications (2007-2008). Prior to this, he was active at the local government level, including as a city district elder of Estonian capital Tallinn (1999-2001). Owing to this background, Mr Kiisler brings a broad range of experience to his work as Minister for the Environment. His experience in city governance, and as Minister of Regional Affairs, has made him a strong advocate of local governments, and as a systems engineer, he promotes ICT solutions as key enablers in the transition to circular economy.



**Robert Kirkpatrick**  
*Director, UN Global Pulse*

Robert Kirkpatrick is a social innovator who has spent more than 20 years in the public, private, and nonprofit sectors working at the intersection of technology, public policy and organizational change. He is the Director of Global Pulse, an innovation initiative of the United Nations Secretary-General harnessing data science for sustainable development and humanitarian action. At Global Pulse, Robert oversees a network of data science innovation labs which partner with government, UN agencies, academia and private sector to develop data analytics solutions for monitoring, early warning and crisis response.



**Jayanti Kirpalani**  
*Director, Europe & Middle East, Brahma Kumaris*

Sister Jayanti Kirpalani, UK Main representative of the Brahma Kumaris to UN, Geneva, Director for Brahma Kumaris in Europe and the Middle East

For over 45 years, Sister Jayanti has been an emissary for peace with a vision and experience that is truly spiritual and global. She travels the world as a keenly sought-after speaker and broadcaster who sees erosion of spiritual values being at the heart of the humanity's present dilemmas. Since 2009, she has led the Brahma Kumaris delegation to the UN Climate Change Conferences and spoken internationally about the spiritual perspectives relevant to climate change. She advocates the need to return to spiritual love and respect—for the self, for all human beings, for all life forms and nature. She believes this love and respect should sit at the foundation of our lives.



**Jake Layes**  
*Director, Market Development Sustainability, North America, Europe, Asia Pacific, Autodesk*

Joachim Jake Layes is Director, Sustainability Market Development for the North American, European & AsiaPacific markets at Autodesk. He works with companies in manufacturing and built-environment industries to integrate sustainability into innovation processes. Layes is a frequent keynote speaker at wide ranges of prominent design, innovation and sustainability conferences.

A German by Nationality, Layes has broad experiences ranging from product development, design, marketing, business development, and sustainability.



# A Greener Approach to Credit

Today's credit markets are increasingly influenced by new and rising challenges stemming from environmental change. These are likely to lead to industry disruption, on the one hand shaping both investors' capital allocation strategies and on the other raising companies' input costs related to carbon emissions and water usage. At Moody's Investors Service, we seek to incorporate these risks into our credit ratings analysis.

We have also launched a Green Bond Assessment that evaluates securities being issued to raise capital for use in projects with specific climate or environmental sustainability purposes. Our GBAs are different to credit ratings, providing an opinion of the relative effectiveness of the issuer's approach for managing, administering, allocating proceeds to and reporting on environmental projects financed by green bonds.

For more information visit [esg.moody's.io](http://esg.moody's.io) and [moody's.com/greenbonds](http://moody's.com/greenbonds) or call the client services desk at +44.20.7772.1932

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**Dr Hoesung Lee**  
*Chair, IPCC*

Dr. Hoesung Lee is Chair of the Intergovernmental Panel on Climate Change (IPCC), elected since October 2015, and Endowed Chair Professor at Korea University Graduate School of Energy and Environment, Seoul, Korea. His research encompasses the economics of climate change, energy and sustainable development. He is a member of the Board of Directors of the Korean Academy of Environmental Sciences, council member of the Global Green Growth Institute, and a member of the Asian Development Bank President's Advisory Board on Climate Change and Sustainable Development. Lee was the founding president of the Korea Energy Economics Institute -- a government agency for national energy policy development.



**Dr. Stephen Lucas**  
*Deputy Minister, Ministry of Environment and Climate Change, Canada*

Dr. Stephen Lucas was appointed Deputy Minister of Environment and Climate Change Canada (ECCC) on January 23, 2017.

As Senior Associate Deputy Minister (Climate Change) from June 2016 to January 2017, Dr. Lucas led ECCC activities in support of the development and adoption of the Pan-Canadian Framework on Clean Growth and Climate Change.

Before joining ECCC, Dr. Lucas was Deputy Secretary to the Cabinet for Plans and Consultations and Intergovernmental Affairs at the Privy Council Office. From 2013 to 2014, he was Assistant Secretary, Economic and Regional Development Policy, at the Privy Council Office.



**Pekka Lundmark**  
*President and CEO, Fortum Corporation*

Pekka Lundmark is the President and CEO of Fortum Corporation. His mission is to drive the change towards a cleaner world. Fortum is teaming up with the start-up scene to create smart digital solutions that help to reshape the energy system and improve resource efficiency. Prior to Fortum Pekka worked as President and CEO at Konecranes, President and CEO at Hackmann, Managing Partner at Startupfactory and held various executive positions at Nokia. He is also the Chairman of the Board of Finnish Energy and Helsinki Metropolitan Smart & Clean Foundation.





**Ryan Martel**  
*Senior Manager, Federal Policy, Ceres*

Ryan Martel is a senior manager on the policy team at Ceres, focused on working with the Ceres Investor Network on Climate Risk and Sustainability on federal, state, and international climate and clean energy policy. From 2013 to 2015 Ryan served as the energy and climate policy advisor to Senator Brian Schatz of Hawaii, focusing on renewable energy deployment, energy efficiency, and international climate negotiations. Prior to that, he worked for Senator Jeff Bingaman of New Mexico from 2009 to 2013, eventually serving as the Staff Director for the Finance Subcommittee on Energy, Natural Resources, and Infrastructure, where he focused on energy tax policy.



**Heino Von Meyer**  
*Head OECD Berlin Centre, OECD*

Heino von Meyer is the Head of the OECD Berlin Centre, covering the entire range of OECD topics. He has been involved in the preparation of OECD contributions to the recent German G7 and G20 Presidencies, such as the OECD report Investing in Climate, Investing in Growth, which makes the economic case for climate action. For several years he has been in charge of OECD Environmental Performance Reviews and developed indicator systems for sub-national territorial development. Prior to joining OECD he worked as researcher on regional development and public finance at the University of Frankfurt and as senior consultant for the EU Commission.



**Dr María Neira**  
*Director, Public Health and the Environment Department, World Health Organisation*

Dr Neira is the Director of the Department of Public Health and Environment at the World Health Organization (WHO). Previously, between September 2002 and August 2005, she was President of the Spanish Food Safety Agency and Vice Minister of Health and Consumer Affairs in Spain. Dr Neira was appointed in 1999 as Director of the Department of Control, Prevention and Eradication at WHO.



**Dr Cathy Oke**  
*Councillor, Chair Environment Portfolio, City of Melbourne*

Dr Cathy Oke is Chair of the Environment portfolio.

She is also Deputy Chair of the Finance and Governance and Transport portfolios.

First elected to the Melbourne City Council in 2008, Dr Cathy Oke has over 20 years' experience in the sustainability sector.

Dr Oke currently works at the Clean Air and Urban Landscapes Research Hub, based at the University of Melbourne.



**Carl Pendragon**  
*Carl Pendragon, Chief Executive Officer, SkyMining*

Carl Pendragon is an inventor, philosopher and entrepreneur, with 25 years' experience in energy markets. During the 1990s, Carl disrupted electricity markets where competition was slow to take hold after demonopolisation. In 2009, he started to search for a solution to permanently stop climate change, which resulted in the concept, technology and platform SkyMining.

At the core of Carl's work lies the insight that is not enough to slow down Climate change - we have to take action to reverse it. As such, SkyMining reverses the flow of carbon; sending carbon from the atmosphere back to the earth. The reversed flow is then used to produce carbon negative fuel replacing fossil fuels, organic food and renewable fibers, while restoring degraded ecosystems.



**Bertrand Piccard**  
*World Alliance for Efficient Solutions*

A pioneer unconstrained by certitude and stereotypes, an explorer of the human spirit more than an adventurer, Bertrand Piccard rejects all dogmas other than the need for all-embracing curiosity. As an enthusiastic balloonist and aviator, Bertrand tackles challenges that others consider impossible. He made the first ever non-stop round-the-world flight in a balloon and launched the Solar Impulse solar-powered airplane, in which he flew from Europe to Africa without a single drop of fuel. A doctor and psychiatrist, he derives from his training in hypnosis and his interest in oriental philosophies a different focus, putting human beings and their quality of life in the foreground.





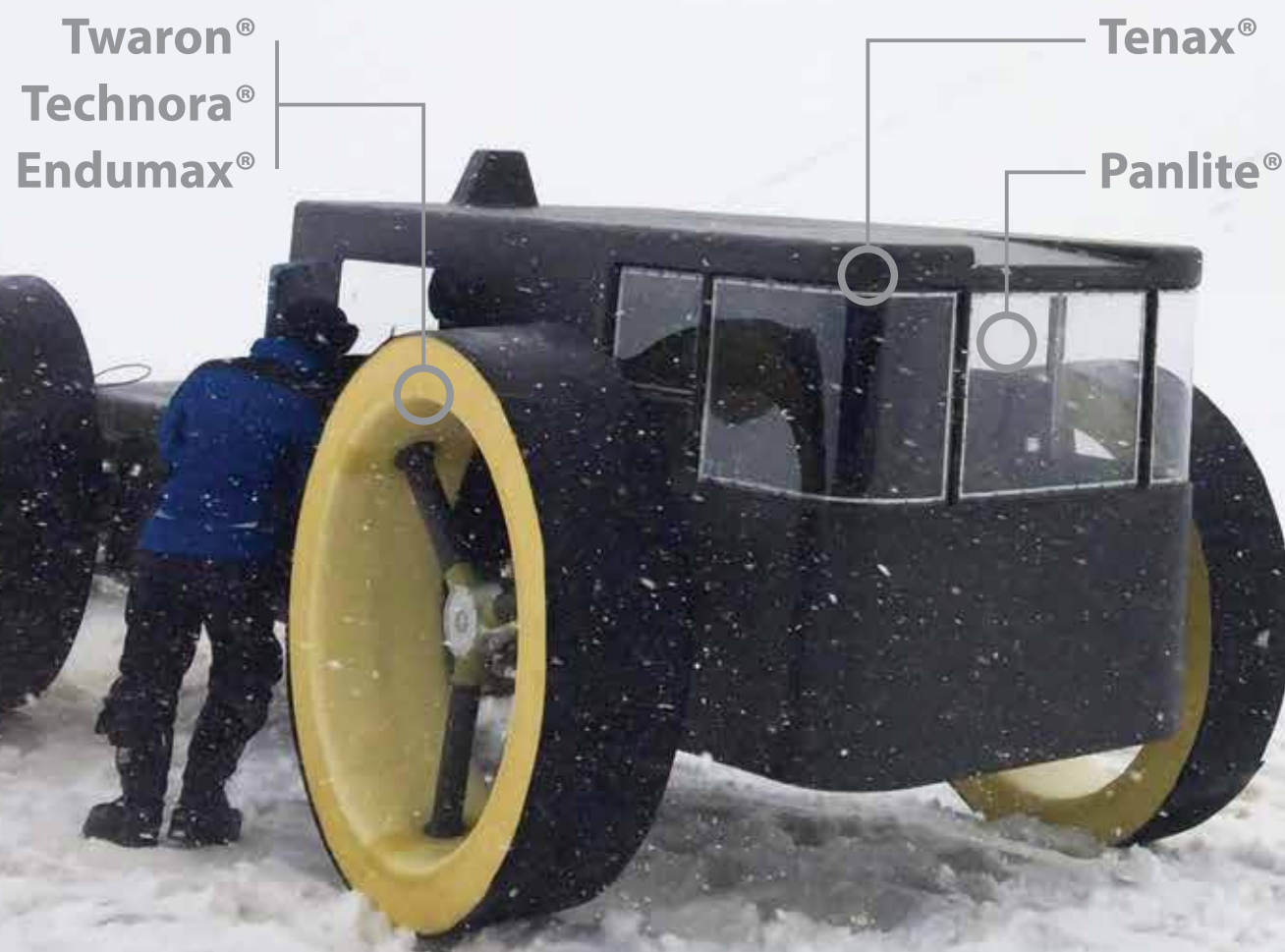
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## Sustainability is business.

Teijin's strong and light materials contribute to reducing CO<sub>2</sub> emissions and saving energy, while reducing costs. In this way, Teijin's materials contribute to preventing further global warming and limiting the damage of climate change.

*Always evolving toward a solution-oriented business.*

*Teijin is proud to support the Clean 2 Antarctica mission.*



**Lance Pierce**  
*President, CDP North America*

Lance Pierce is President of CDP North America, a global not-for-profit organization with US 501(c)(3) status and the world's largest platform for investors, corporations and cities to share data, manage performance, and build action programs on climate, energy, water, forests and supply chains.

Lance has spent his career building new ventures and partnerships for impact at the intersection of international development, corporate social responsibility, sustainability and public/global policy. His work spans NGOs, the public sector, strategy consulting and Fortune 20 corporate experience across Asia, Europe, and the Americas.



**Golo J. Pilz**  
*Germany/India Advisor on Renewable Energy,  
Head of India-One Solar project, Brahma Kumaris*

Golo was born in Germany and has studied Raja Yoga meditation since 1984. He lives at the BK headquarters in Mount Abu, India most of the year. Since 1993, he has played a key role in establishing the Brahma Kumaris as one of the major users of renewable energies in India. Presently, Golo is directing the construction of India One, a 1MW solar thermal power plant. This is an innovative R&D project jointly sponsored by the German (BMUB/GIZ) and Indian Governments (MNRE). Golo advocates sustainable solutions through an ethical and value-based approach. He is an experienced presenter and participates regularly in UN Climate Conferences.



**Dr. Gerald Podobnik**  
*Global Head of Capital Solutions & Sustainable Financing, Deutsche Bank AG*

Gerald is Global Head of Capital Solutions & Sustainable Financing as well as Co-Head of FIG EMEA in Global Capital Markets. In his Capital Solutions & Sustainable Financing role, Gerald is responsible for regulatory and rating agency optimized capital measures for banks, insurance companies and corporates as well as the emerging sustainable financing toolbox. Key products are all forms of green/social/sustainable bonds, hybrid capital securities and regulatory capital advice in the changing environment of Basel IV, resolution regimes, Solvency II, ICS etc. In his FIG role, Gerald is responsible for debt issuance and balance sheet solutions with financial institutions in Europe, Middle East and Africa. He holds a doctorate degree in law and a masters degree in business administration from Graz University, Austria.





**Brune Poirson**  
*Minister of State for Ecological and Inclusive Transition, France*

Brune Poirson (born 1 September 1982) is a French politician. Since 21 June 2017, she has served as the member of the National Assembly for the Vaucluse's 3rd constituency after being elected in the legislative election. On the same day, Poirson was appointed as the Secretary of State to the Minister for the Ecological and Inclusive Transition.



**Matt Rodriguez**  
*Secretary, California Secretary for Environmental Protection*

Matthew Rodriguez was appointed California Secretary for Environmental Protection by Governor Edmund G. Brown Jr. in July 2011. As Secretary, Matt oversees the activities of the six boards, departments and offices within the Agency, including the California Air Resources Board and the State Water Resources Control Board. Matt comes to CalEPA with over 24 years of environmental experience with the California Department of Justice. Matt formerly served as a Deputy Attorney General, specializing in land use and environmental law.



**Salvador Samitier**  
*Director of the Catalan Climate Change Office, Catalonia, Spain*

Salvador Samitier's expertise lies in the following areas: management of ecolabelling schemes of products and services, environmental management systems (ISO 14001 and EMAS) and LCA. With time his responsibilities expanded to BATs (Best Available Technologies), IPP (Integrated Product policy), environmental liability and REACH, taken part of different committees and working groups at the Catalan, Spanish and European level.

Since September 1st 2009, he has been appointed to Head of the Catalan Office of Climate Change. This Office was created in 2006 and its objective is to promote, within the framework of European and international commitments and agreements, policies to reduce emissions of greenhouse gases (GHG) and the vulnerability of Catalan society, in cooperation with all stakeholders and evaluate its implementation.



**Aiyaz Sayed-Khaiyum**  
*Attorney-General and the Minister for Economy, Public Enterprises, Civil Service and Communications, Fiji*

Prior to his appointment as a Cabinet Minister following the first-ever truly democratic election in September 2014, Mr Sayed-Khaiyum was the Fijian Attorney-General and the Minister for Justice, Anti-Corruption, Public Enterprises, Communications, Civil Aviation, and Tourism, Industry and Trade and the Minister responsible for Elections under the Bainimarama Government.

Since joining the Bainimarama Government in 2007, Mr Sayed-Khaiyum has initiated a comprehensive program to modernise Fiji's laws in such areas as domestic violence, corporate governance and criminal code.

To give teeth to the Bainimarama Government's campaign against corruption, the Attorney-General oversaw the formation of the Fiji Independent Commission Against Corruption, the first of its kind in the country and in the region.



**Prof. Dr.-Ing. Armin Schnettler**  
*Senior Vice President Corporate Technology, Research in Energy and Electronics, Siemens AG*

Siemens AG is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization.

Armin Schnettler is heading all Siemens research activities in Energy and Electronics at Corporate Technology. He joined Siemens in 2013 as Senior Vice President of New Technology Fields in Corporate Technology.



**Paul Simons**  
*Deputy Executive Director, International Energy Agency, Paris*

Paul Simons took up his duties as IEA Deputy Executive Director on 8 July 2015. He supports the Executive Director in providing leadership and strategic direction, including advancing the global engagement strategy by strengthening co-operation with non-member countries and pursuing initiatives with key partner countries.

Mr. Simons brings extensive expertise in energy and economic policy to the IEA through his prior experience. He was Executive Secretary of the Inter American Drug Abuse Control Commission (CICAD), co-ordinating drug policy and criminal justice reform initiatives for the 34 members of the Organization of American States. Before that he served as US Ambassador to Chile and as Deputy Assistant Secretary of State for Energy and Sanctions, during which he was a delegate to the IEA Governing Board and chaired the IEA Standing Group on Long-Term Co-operation.





# Environmental intelligence for people and the planet

You can't manage what you don't measure. Aclima combines leading-edge sensor technology, cloud computing, and machine learning to make sense of the invisible world around us. With groundbreaking insights about indoor and outdoor environmental conditions, Aclima provides public and private sector customers enhanced environmental intelligence and management capabilities to improve human health and planetary health.



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**Paul Simpson**  
CEO, CDP

Paul Simpson is the CEO and co-founder of CDP, formerly the Carbon Disclosure Project. Founded in 2000, CDP is a non-profit organization which created and operates the global disclosure platform for companies, cities, states and regions to measure, manage and share vital data on their environmental performance. Voted number one climate research provider by investors, CDP works with 827 institutional investors with assets of US\$100 trillion and 89 purchasing organizations with a combined annual spend of over US\$2.7 trillion, to motivate companies to disclose their impacts on the environment and natural resources and take action to reduce them.



**Dr. Nina Skorupska**  
Chief Executive, Renewable Energy Association

Nina is the Chief Executive of the REA, the UK's largest trade association for renewable energy and clean tech. With approximately 650 members this not-for-profit organisation represents British renewable energy producers across power, heat, and transport, including energy storage and electric vehicles.

A chemist by training with over 25 years' experience in the energy industry, Nina has worked in a number of senior executive and board roles at National Power, RWE npower and Essent NV.



**Erik Solheim**  
Executive Director, UN Environment

Erik Solheim was elected as Executive Director of UN Environment (UNEP) on May 13, 2016. Prior to joining UNEP, he was the chair of the Development Assistance Committee (DAC) of the Organization for Economic Co-operation and Development (OECD). From 2007 to 2012, Erik Solheim held the combined portfolio of Norway's Minister of the Environment and International Development, and from 2005 to 2007 served as Minister of International Development. He has served as UNEP's Special Envoy for Environment, Conflict and Disaster since 2013 and a Patron of Nature for the International Union for the Conservation of Nature (IUCN) since 2012.





**Ashok Sridharan**  
*Mayor, City of Bonn*

Ashok Sridharan (\*1965) Mayor of Bonn since 2015, holds a degree in legal affairs and has long-standing experience in local government administration.

Mayor Sridharan promotes Bonn as Germany's United Nations City, as business location and centre of cultural life and heritage. UN Bonn's motto "Shaping a Sustainable Future" serves as the guiding principle for local strategies, international cooperation and global advocacy. As First Vice President of ICLEI - Local Governments for Sustainability, Mayor Sridharan advocates low-emission solutions, holistic approaches and multi-governance cooperation towards the implementation of major sustainability agendas. He sees Bonn's strength in projects that connect to local communities and foster cooperation with other cities worldwide.



**Andrew Steer**  
*Executive Director, World Resources Institute*

Dr. Andrew Steer is the President and CEO of the World Resources Institute, a global research organization that works in more than 50 countries. WRI's more than 500 experts work with leaders to address six urgent global challenges at the intersection of economic development and the natural environment: food, forests, water, climate, energy and cities.

Dr. Steer joined WRI from the World Bank, where he served as Special Envoy for Climate Change from 2010 - 2012. From 2007 to 2010, he served as Director General at the UK Department of International Development (DFID) in London.



**Lord Nicholas Stern**  
*Chair, Grantham Research Institute*

Lord Stern is IG Patel Professor of Economics and Government at the London School of Economics as well as Head of the India Observatory (LSE) and Chairman of the Grantham Research Institute on Climate Change and the Environment. He is President-elect for the Royal Economics Society and is a member of the G20 Eminent Persons Group. He was President of the British Academy (July 2013 – July 2017) and was elected Fellow of the Royal Society (2014). His most recent book is "Why are We Waiting? The Logic, Urgency and Promise of Tackling Climate Change".



**Anne Stevens**  
*Non-Executive Director, Anglo American*

Anne is a member of the Audit, Nomination and Remuneration Committees. She brings a wealth of experience and wide-ranging commercial acumen from a number of global industries. She has experience gained across North, Central and South America. Anne is a non-executive director of GKN plc, Lockheed Martin Corporation and XL Catlin. She served as chairman and CEO of SA IT Services from 2011 until her retirement in December 2014. From 2006 to 2009, Anne was chairman and CEO of Carpenter Technology Corporation. Prior to this, she was COO for the Americas at Ford Motor Company until 2006, the culmination of her 16-year career with the company. Her early career was spent at Exxon Corporation, where she held roles in engineering, product development, and sales and marketing.



**Tom Steyer**  
*Founder and President, NextGen America*

Tom Steyer is a business leader and philanthropist who believes we have a moral responsibility to give back and help ensure that every family shares the benefits of economic opportunity, education, and a healthy climate. In 2007, Tom and his wife, Kat Taylor, founded Beneficial State Bank, an Oakland-based nonprofit bank that invests any profits back into the community. Tom also serves as President of NextGen Climate.

Tom and Kat have pledged to give most of their wealth to charitable causes. They have four children and live in San Francisco.



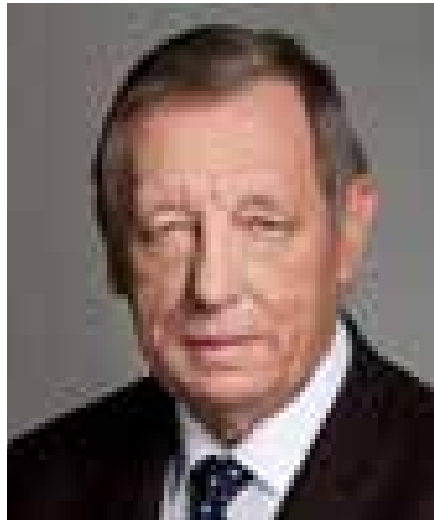
**Neel Strøbæk**  
*Senior Group Director, Sustainability, Planning & Urban Design, Ramboll*

Ms. Neel Stroeback is responsible for Ramboll's global Sustainability, and Planning and Urban design area, which is providing consultancy services for Liveable and Smart Cities all over the world.

Ms. Stroeback is the key driver behind Ramboll's sustainable society initiative, including research activities in the Ramboll Liveable City Lab, and in the Ramboll Arctic360 initiative. She is working closely together with socio-economic experts and scientist in developing concepts and tools for making cities more liveable within the Green Growth agenda.







**Jan Szyszko**  
*Minister, Ministry of Environment, Poland*

Director of the Polish Board of National Parks in 1992-1993. Minister of Environmental Protection, Natural Resources and Forestry in 1997-1999. Between 1999 and 2001 he acted as the Secretary of State in the Chancellery of the Prime Minister, plenipotentiary of the Government of the Republic of Poland for the UN Convention on Climate Change and President of the United Nations Framework Convention on Climate Change (COP5). Judge of the State Tribunal in 2001-2005. Minister of Environment in 2005-2007. Member of Parliament of the V, VI, VII and VIII term of the Polish Sejm. Vice-Chairman of the Parliamentary Committee for Environmental Protection, Natural Resources and Forestry, member of the Parliamentary Committee for the European Union and Chairman of the Parliamentary Team for the Sustainable Development of Europe of the VII term of the Polish Sejm.



**Dave Tang**  
*Senior Vice President & General Manager, Western Digital*

Mr. David Tang, also known as Dave, leads the ongoing transformation of the Western Digital brand, as Western Digital redefines its brand identity and role in the industry from a leading storage device supplier to a thought leader and enabler of data-centric innovation. He serves as Senior Vice President of Corporate Development & Strategy and General Manager of Elastic Platforms Storage Group of HGST, Inc. Mr. Tang served as Vice President of Corporate Development & Strategy and General Manager of Cold Storage Solutions Group at HGST, Inc.



**Kimmo Tiilikainen**  
*Minister, Ministry of Environment, Finland*

Kimmo Tiilikainen was appointed Minister of the Environment, Energy and Housing in May 2017. Before that he served the same Government as the Minister of Agriculture and the Environment since May 2015. Mr. Tiilikainen has been a Member of the Parliament since 2003 and previously served as the Minister of the Environment from 2007 to 2008. Mr. Tiilikainen raised in small town of Ruokolahti in Eastern Finland and has been a Member of the Ruokolahti Local Council since 2001.



**Paulus Tjakrawan Taningdjaja**  
*Commissioner, Indodesia Biofuels Producer Association*

He graduated as an electronic engineer, and at the early career he handled the aircraft engineering and maintenance. He is managing the PT Indo Biofuels Energy which was one of the Palm Oil based Biodiesel producer pioneers in Indonesia since 2005 till 2012. At the end of the 2006, he was also one of the formation initiator of Indonesia Biofuels Producer Association and be the Secretary General then one of the Chairperson. Teamed up with other sectors, the Associations carried out an active role to promote Biofuel including Palm Oil based Biodiesel.



**Laurence Tubiana**  
*CEO, European Climate Foundation*

Laurence Tubiana is also the Chair of the Board of Governors at the French Development Agency (AFD) and a Professor at Sciences Po, Paris. Laurence brings decades of expertise and experience in climate change, energy, agriculture and sustainable development, working across government, think tanks, NGOs and academia. She started her career as a Research Director for the French National Institute for Agricultural Research. In the 80's and early 90's she founded and then led Solagral, an NGO working on food security and the global environment.



**Nick Turton**  
*External Affairs Director, Energy Institute*

Nick Turton has spent twenty years in Westminster, Whitehall and more recently in consultancy advising government ministers and corporate leaders across the energy sector. He has dealt with issues as complex and contentious as global climate talks, new nuclear power and spiralling energy bills. He is now the Energy Institute's external affairs director and is working to reinforce the role of evidence and expertise at the heart of the energy debate.





**Takeshi Uchiyamada**  
*Chairman, Toyota*

Takeshi Uchiyamada joined Toyota Motor Corporation (TMC) in 1969. After being named to the Board of Directors in June 1998, Mr. Uchiyamada oversaw Vehicle Development Center 3. In June 2000, he became chief officer of Vehicle Development Center 2, and in June 2001, became the managing director and chief officer of the Overseas Customer Service Operations Center. Mr. Uchiyamada was made a senior managing director (this title was changed to senior managing officer as of June 2011), and was also appointed chief officer of the Vehicle Engineering Group in June 2003. In June 2004, he became chief officer of the Production Control & Logistics Group, and in June 2005, he became an executive vice president. Mr. Uchiyamada was appointed vice chairman of the board of directors in June 2012, and then chairman in June 2013.



**Eric Usher**  
*Head, UNEP Finance Initiative*

Eric Usher brings twenty five years' experience in the sustainable energy and finance sectors, including an entrepreneurial venture in Morocco, financial sector development across emerging markets and responsible investment uptake globally. Prior to heading the UNEP FI Secretariat in Geneva, Mr. Usher was responsible for a programme portfolio advancing new public/private instruments for financing cleaner energy infrastructure and improving energy access.



**Andreas Wolter**  
*Vice Mayor, City of Cologne*

In 2014 he was chosen as a Vice Mayor by the City Council. Since 2004 he was elected by citizens of his constituency directly to the Council. He is member of the Green Party since 1983.

Memberships and committee work:

- Chairman of the Transport Committee
- Board member Association of German Cities (NRW)
- Board member of the Franco-German Committee of the Council of European Municipalities and Regions (CEMR)
- since 2016 Ambassador of Climate Alliance (Cop 22 und Cop 23)
- Various working committees of the City Council
- Member of the City Association Lesbian, Gay, Transgender



**Woong-chul Yang**  
*Vice-Chairman, Hyundai*

Dr. Woong-chul Yang received B.S in mechanical engineering design from Seoul National University and M.S in mechanical engineering from University of Texas, Arlington. He became a Ph.D in mechanical engineering from University of California, Davis in 1986. He joined Hyundai Motor Group as a head of its Electronics Development Center in 2004. He has established Eco Technology Development Center to develop all hybrids, EVs, and FCEVs for Hyundai Motor Company and Kia Motors. He has been a Vice Chairman and CTO at Hyundai Motor Group since 2009. Dr. Yang has significantly contributed to making Hyundai a global leader in Eco-friendly vehicle technology and eco-conscious markets.







# INDONESIA BIOFUEL MORE SUSTAINABLE



## BIODIESELS FACT 2016

**B20 Domestic Utilization**

**3 Mkl / 18.867 Million Barrel**

**Upstream sector Workforce**

**297,000**

**GHG Emissions Saving**

**8.03 Million Ton (-15%) CO<sub>2</sub> eq**

**Emission Saving Contribution**

**22% from Energy & Transportation  
Sector Target**

Source : APROBI

## Sponsors

HEADLINE PARTNER

# BMW GROUP



**BMW Group**  
[www.bmwgroup.com](http://www.bmwgroup.com)

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. As a global company, the BMW Group operates 31 production and assembly facilities in 14 countries and has a global sales network in more than 140 countries.

In 2016, the BMW Group sold approximately 2.367 million cars and 145,000 motorcycles worldwide. The profit before tax was approximately € 9.67 billion on revenues amounting to € 94.16 billion. As of 31 December 2016, the BMW Group had a workforce of 124,729 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy.

The BMW Group has the vision to be the most successful and sustainable premium provider of individual mobility. Therefore, the company has set itself ten strategic sustainability goals running through to 2020. The goals focus on three areas "Products and services", "Production and value creation" and "Employees and society".

The BMW Group is addressing the challenge of reducing CO<sub>2</sub> and pollutant emissions in order to protect the climate and air quality. Our portfolio's move towards lower-emission, more fuel-efficient vehicles is in line with the wishes of many of our customers. Since 2007, our BMW i project has been developing electric vehicles, and has resulted in completely new concepts for individual mobility.

The sustainability performance of the BMW Group has received positive ratings from renowned rating agencies. In 2016, the BMW Group again ranked high in several sustainability indices and received a number of awards.





## OFFICIAL VENUE PARTNER


**Deutsche Post DHL Group**  
[www.dpdhl.com](http://www.dpdhl.com)

Deutsche Post DHL Group is the world's leading mail and logistics company. The Group connects people and markets and is an enabler of global trade. It aspires to be the first choice for customers, employees and investors worldwide. The Group contributes to the world through responsible business practices, corporate citizenship and environmental activities. By the year 2050, Deutsche Post DHL Group aims to achieve zero emissions logistics.

Deutsche Post DHL Group is home to two strong brands: Deutsche Post is Europe's leading postal service provider. DHL offers a comprehensive range of international express, freight transport, and supply chain management services, as well as e-commerce logistics solutions.

Deutsche Post DHL Group employs approximately 510,000 people in over 220 countries and territories worldwide. The Group generated revenues of more than 57 billion Euros in 2016.

Die Post für Deutschland. The logistics company for the world.

## PLATINUM SPONSOR


**UN Global Pulse**  
[unglobalpulse.org](http://unglobalpulse.org)

Global Pulse is a United Nations innovation initiative on big data and data science. Its vision is a future in which big data is harnessed safely and responsibly as a public good. UN Global Pulse promotes awareness of the opportunities big data presents for sustainable development and humanitarian action, develops high-impact analytics solutions for UN and government partners through its network of data science innovation centres, or Pulse Labs, in Indonesia (Jakarta), Uganda (Kampala) and at UN Headquarters (New York), and works to lower barriers to adoption and scaling.

## PLATINUM SPONSOR


**State of Quintana Roo, Mexico**  
[www.quintanaroo.gob.mx](http://www.quintanaroo.gob.mx)

The Planning Committee for the Development of the State of Quintana Roo was formed after the constitutional government was put in place. This body was given the task of conducting the public consultation for the preparation of the State Development Plan 2016-2022. This Plan establishes an order of public action by the government in the short, medium and long terms.

In its structure a strategic relationship between citizenship and government is maintained and it is composed of five guiding axes:

- Economic Development and Diversification with Opportunities for All
  - Governance, Security and Rule of Law- Modern Government, Reliable and Close to People
  - Social Development and Combating Inequality- Ordered Growth with Environmental Sustainability
- Each of these axes contains a general objective with its respective strategy is integrated by strategic programs, these in turn have lines of action.

This guiding document contains specific goals for each strategic program, which are quantifiable and therefore subject to evaluation; it also has indicators, measuring instruments that serve to achieve objectives and goals raised in relation to impacts, results and products. The operation and evaluation of the State Development Plan rests on the Results-Based Budget model with the objective of improving the impacts of government spending on long-term strategic actions for the benefit of the population. Quintana Roo is on the way to a state with opportunities for all; with social equality and economic development; with an orderly and sustainable urban growth; with security and the rule of law.

## PLATINUM SPONSOR


**Siemens**  
[www.siemens.com](http://www.siemens.com)

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, which ended on September 30, 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion. At the end of September 2016, the company had around 351,000 employees worldwide. Siemens is the first large industrial company that announced to become carbon neutral by 2030 and to half its carbon footprint by 2020 vs. 2014. With products and solution from its Environmental Portfolio, Siemens helped its customers to reduce their carbon emissions by 521 million metric tons in fiscal 2016.



## PLATINUM SPONSOR


**Western Digital**  
[datamakespossible.com](http://datamakespossible.com)

The power of data is undeniable. Whether its big data, fast data or personal data, data creates a world that enables smarter decisions, breakthrough discoveries and deeper connections.

At Western Digital, we believe in the power of data and are redefining how the world keeps and leverages it. In 2016, Western Digital partnered with the United Nations Global Pulse to launch the Data for Climate Action Challenge, an open innovation challenge harnessing big data and data science to catalyze action on climate change. This challenge is an incubator for public/private collaborations that will open access to data and inform more effective policy and solutions for global humanitarian efforts such as the Sustainable Development Goals.

With only 0.5% of available data in the world today actually being analyzed (IDC), Western Digital is committed to supporting efforts and collaborations that broaden data's use and allow the world to tap into all that data makes possible.

## GOLD SPONSOR


**Autodesk**  
[www.autodesk.co.uk](http://www.autodesk.co.uk)

As a global leader in 3D design, engineering, and entertainment software, Autodesk helps people imagine, design and create a better world. Leveraging a broad portfolio of software and depth of expertise, Autodesk gives customers the power to solve business, social and environmental challenges, most notably climate change. Through our Sustainability and Autodesk Foundation initiatives, we work with customers to create positive impact with our products and services. We also lead by example with our sustainable business operations, employee programs, and climate change advocacy.

## GOLD SPONSOR


**Ørsted**  
[www.orsted.com](http://www.orsted.com)

Ørsted, formerly DONG Energy, is a renewable energy company that takes tangible action to create a world that runs entirely on green energy.

Ørsted will be at the heart of the energy transition, from generation and storage, through to provision of smart energy solutions. Our aim is to develop and deploy market leading green energy solutions that benefit the planet and our customers alike, further driving down the cost of green energy. By deploying renewable energy resources at scale, we want to revolutionize the way we power people and reduce the negative effects of climate change, which are currently one of the biggest threats facing the world.

A decade ago, we initiated our transformation from a black to a green energy company. Since then, we have reduced our use of coal by 73% and more than halved our CO2 emissions. By 2023, we will be completely coal-free and will have reduced our CO2 emissions by 96%. In 2017, we divested our upstream oil & gas business, completing our transformation to become a leading pure play renewables company.

Over the past 25 years we have established our company as a global leader in offshore wind with a 25 per cent market share. We develop, construct and operate offshore wind farms in Europe, the US and Asia, and have built enough offshore wind to power 9.5 million people. By 2025, our ambition is to power 30 million people with offshore wind.

We are headquartered in Denmark and our shares are listed on Nasdaq Copenhagen.

## GOLD SPONSOR


**Eaton**  
[www.eaton.com](http://www.eaton.com)

As a global power management company, at Eaton we believe that power is a fundamental part of just about everything people do. Planes, hospitals, factories, data centers, vehicles, the electrical grid—these are things the world relies on every day.

That's why Eaton is dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because that's what really matters. And we're here to make sure it works.

We're helping utilities, municipalities, businesses and everyday homeowners re-think the impact they have on the environment. Whether it's using more energy-efficient products — or harnessing low carbon and renewable resources like solar, wind and hydroelectric power. Around the world, we're helping major industries lower emissions and use less fuel.

We are committed to positively impacting the environment while helping to solve the world's most pressing power management challenges. We encourage each and every one of our 95,000 employees at Eaton to think differently about our business, our communities—and the positive impact we can have on society and the world.

**PRE-SALES:**  
23rd October  
**1 MONTH & 7 DAYS**

Contribution  
between ETH  
**100 -  
100.000**

Can be paid either in  
Fiat Currency or ETH

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**ICO:**  
1st December  
**30 days**  
For ICO, only  
ETH is accepted.



**The first cryptocurrency  
that allows everyone to  
participate in the fight  
against Climate  
Change.**

Climatecoin will use the contribu-  
tions received from the people of  
all around the world to invest in  
companies and projects that  
create real solutions to mitigate  
Climate change.

CLIMATECOIN Foundation will be  
launching the Climatecoin  
Carbon Portal, where a carbon  
credits tokenized system will  
make possible for everyone and  
not only corporations to buy  
carbon credits peer to peer.

GOLD SPONSOR

**Fortum**  
[www.fortum.com](http://www.fortum.com)

Fortum is a leading clean-energy company that provides its customers with electricity, heating and cooling as well as smart solutions to improve resource efficiency. We want to engage our customers and society to join the change for a cleaner world. We employ some 9,000 professionals in the Nordic and Baltic countries, Russia, Poland and India, and 62% of our electricity generation is CO2 free. In 2016, our sales were EUR 3.6 billion. Fortum's share is listed on Nasdaq Helsinki. [www.fortum.com](http://www.fortum.com)

GOLD SPONSOR

**Hydrogen Council**  
[hydrogencouncil.com](http://hydrogencouncil.com)

The Hydrogen Council is a global CEO-level initiative to voice a united vision and long-term ambition for hydrogen to foster the energy transition. Our members includes 16 leading energy, transport and industry multinationals (Air Liquide, Alstom, Anglo American, Audi, BMW Group, Daimler, ENGIE, Honda, Hyundai, Iwatani, Kawasaki, Plastic Omnium, Shell, The Linde Group, Total and Toyota).

Launched at the World Economic Forum 2017, in Davos, the growing coalition of CEOs has the ambition to:

- Accelerate their significant investment in the development and commercialization of the hydrogen and fuel cell sectors.
- Encourage key stakeholders increase their backing of hydrogen as part of the future energy mix with appropriate policies and supporting schemes.

Also presented at the Council's launch, the report 'How Hydrogen empowers the energy transition' sets out the Council's joint vision and provides policy recommendations on how to accelerate the technology's deployment.





## GOLD SPONSOR


**Solvay**  
[www.solvay.com](http://www.solvay.com)

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its lightweighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 27,000 employees in 58 countries. Net sales were € 10.9 billion in 2016, with 90% from activities where Solvay ranks among the world's top 3 leaders. Solvay SA (SOLB.BE) is listed on Euronext Brussels and Paris (Bloomberg: SOLB.BB - Reuters: SOLB.BR) and in the United States its shares (SOLVY) are traded through a level-1 ADR program.

## GOLD SPONSOR


**Climate Coin Foundation**  
[climatecoin.io](http://climatecoin.io)

CLIMATECOIN Foundation has created an innovative cryptocurrency that will allow everyone to participate in the fight against climate change and at the same time perceive profits for it.

Our token will permit our foundation to create a sustainable investment vehicle to participate in companies that have disruptive products that help fight climate change and return profits to the token holders. This is the only way to make impact in this problem that affect all of us.

## GOLD SPONSOR


**Westport Fuel Systems**  
[wfsinc.com](http://wfsinc.com)

At Westport Fuel Systems, we are driving innovation to power a cleaner tomorrow. We are inventors, engineers, manufacturers and suppliers of advanced clean-burning fuel systems and components that can change the way the world moves. Our technologies deliver the performance, fuel efficiency and environmental benefits to address the challenges of global climate change and urban air quality. Headquartered in Vancouver, Canada, we serve our customers in more than 70 countries with leading global transportation brands.

The transportation sector is facing an unrelenting pressure to innovate with new greenhouse gas regulations, introducing a compelling opportunity for gaseous-fuel product solutions powered by natural gas, propane, renewable natural gas, and hydrogen. The substitution of natural gas for petroleum-based fuels drive a reduction in harmful combustion emissions such as particulate matter, nitrogen oxides (NOx), and greenhouse gases, in addition to the economic benefits of a low-cost and abundant fuel.

Our strategic partnerships with original equipment manufacturers (OEMs) enables us to commercialize technologies and products in markets demanding alternative fuel solutions that have the performance, cost, and emissions characteristics to match the best diesel and gasoline-powered products currently available.

At Westport Fuel Systems, we think ahead.

## SILVER SPONSOR


**Aclima**  
[aclima.io](http://aclima.io)

Aclima has garnered global recognition as a leader in the application of sensor networks to advance environmental intelligence to improve human and planetary health. Headquartered in San Francisco, the technology company combines leading-edge sensing technology, cloud computing, and artificial intelligence enabling a level of environmental insight that has never been possible before in buildings, cities, and across industry.

Aclima and Google Earth Outreach have partnered to map air quality in three of California's largest metropolitan areas by integrating Aclima's platform on Google Street View cars. To date, the Aclima-equipped vehicles have driven more than 80,000 miles and collected millions of data points about hyperlocal air quality. In addition to mapping pollution at the street-level, Aclima also has a partnership with Google to map the indoor environment which has produced one of the largest data sets for the built environment in the world. Aclima also has research partnerships with the U.S. Environmental Protection Agency, Lawrence Berkeley National Laboratory, and the University of California, Berkeley to advance sensor technologies for air pollutants critical to climate change and public health.

## SILVER SPONSOR


**Ramboll**  
[www.ramboll.com](http://www.ramboll.com)

Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. The company employs 13,000 globally and has especially strong representation in the Nordics, UK, North America, Continental Europe, Middle East and Asia Pacific.

With more than 300 offices in 35 countries, Ramboll combines local experience with a global knowledgebase constantly striving to achieve inspiring and exacting solutions that make a genuine difference to our clients, the end-users, and society at large. Ramboll works across the markets: Buildings, Transport, Planning & Urban Design, Water, Environment & Health, Energy, Oil & Gas and Management Consulting.

## SILVER SPONSOR


**Deutsche Bank**  
[www.db.com](http://www.db.com)

Deutsche Bank is Germany's leading bank, with a strong position in Europe and a significant presence in the Americas and Asia Pacific with more than 2,700 branches in over 70 countries. Founded in Berlin in 1870 to support the internationalization of Germany's business, Deutsche Bank is a leading global provider of financial services. Deutsche Bank provides banking services to corporations, governments, institutional investors, small and medium-sized businesses, and private individuals.

Our corporate culture and values lie at the core of everything we do. They guide our behaviour with clients, with each other, with our shareholders and with the communities we serve. They define the type of institution Deutsche Bank aspires to be.

## SILVER SPONSOR


**SkyMining**  
[skymining.com](http://skymining.com)

SkyMining reverses the carbon flow in the biosphere and will take society Beyond Sustainable™.

Through SkyMining we can produce enough solid and liquid fuels from CO<sub>2</sub> to replace all oil and coal while causing net reductions of atmospheric carbon levels. Once we have scaled the replacement of fossil fuels with clean, non-polluting and carbon negative alternatives we will expand to food and fiber production, all in a way that restores soils and ecosystem function.

The profound difference between the 1% decarbonisation we have experienced through wind and solar and the 35% decarbonisation we would have had through SkyMining, for the same investment, is a difference that mankind can no longer afford to ignore. The road to a non-emitting future for energy, food and fiber production is, without SkyMining, paved with annual gigaton emissions that will ruin our ecology long before new methods and technologies can save us.

We envision a world where the pursuit of prosperity and growth is decoupled from degradation, depletion and emissions and instead coupled with growth, regenerations and negative emissions. SkyMining is by far the fastest way to make this happen, while generating above average returns for all local and global stakeholders.

## STRATEGIC PARTNER


**Climate Leadership Council**  
[www.clc.fi](http://www.clc.fi)

Climate Leadership Council challenges companies and society to act on climate change. We create and implement solutions for climate financing, risk management, carbon pricing, carbon footprint and handprint, built environment, transportation, energy, circular economy and consumer cleantech. We are a rapidly growing network of leading Finnish and international companies and organizations. Our current 31 members represent nearly half of the market cap of the Helsinki stock exchange.

Our first key initiative was to develop the greater Helsinki area into a world-class cleantech implementation showcase resulted in the Smart & Clean foundation co-funded by companies, municipalities and the Finnish government. Current key projects address the climate neutral transformation on a country level and making carbon pricing more effective.

Are you looking to collaborate with someone who can move things forward? Get in touch!





STRATEGIC PARTNER



**Dubai Electricity and Water Authority**  
[www.dewa.gov.ae](http://www.dewa.gov.ae)

Dubai Electricity and Water Authority (DEWA) was formed on 1 January, 1992, by a decree issued by the late Sheikh Maktoum bin Rashid Al Maktoum to merge Dubai Electricity Company and Dubai Water Department, which had been operating independently before then. Both organisations were established by the late Sheikh Rashid bin Saeed Al Maktoum in 1959. Dubai Government fully supported the Electricity Company and the Water Department to provide Dubai's citizens and residents with a continuous and reliable supply of electricity and water. Since then, DEWA has made considerable achievements, to be ranked as one of the best utilities in the world. DEWA provides services today to more than 780,000 customers with a happiness rate that reached 95% in 2016.

The UAE, represented by DEWA, has been ranked first in the Middle East and North Africa and fourth globally for the fourth consecutive year for getting electricity as per the World Bank's Doing Business 2017 report.

To emphasise its commitment to sustainability, which is one of the main pillars of World Expo 2020 in Dubai, DEWA is working in line with the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to host the best World Expo that the world has ever seen in Dubai. DEWA will contribute to achieving this by building world-class energy infrastructure that meets Dubai's development demands. DEWA has launched a wide variety of initiatives in this regard, allocating AED 3 billion to boost water, electricity and renewable energy projects according to the highest international standards. This supports Dubai Expo's theme of 'Connecting Minds, Creating the Future' and its three sub themes of sustainability, mobility and opportunity.

STRATEGIC PARTNER



**Indonesia Biofuels Producer Association**  
[www.aprobi.or.id](http://www.aprobi.or.id)

"Indonesian Biofuel Producers Association" (hereinafter referred to as APROBI), domiciled in Jakarta, Indonesia.

The purpose and objective of establishing APROBI are as follows:

1. Associating private business entities in biofuels industry.
2. Unifying all the business sectors in the biofuels industry in Indonesia to become the power of economic to increase the prosperity of the community, the nation and the Unitary Republic of Indonesia.
3. Being a partner for the Central Government and Local Government in order to develop the policies for competitiveness improvement in both national and international markets.

Members and capacity Installed:

- Biodiesel, 23 Companies with installed capacities 11.966.032 KL/year
- Bioethanol, 1 Company with installed capacity of 10.000 KL/year

With the intention to support the program of Government in developing and using biofuels as a renewable energy, then in 2005 some companies that produce both bioethanol and biodiesel was established. In order to make the support becomes more effective, the companies agreed and formed the Association of Indonesian Biofuel Producers / APROBI in late 2006. Since then, for 10 years APROBI continue to cooperate with the government and all stakeholders to pursue the development of biofuels in Indonesia as well as fight in the International Forum.

STRATEGIC PARTNER



**NextGen America**  
[nextgenamerica.org](http://nextgenamerica.org)

Founded originally as NextGen Climate by businessperson and philanthropist Tom Steyer in 2013, NextGen America acts politically to prevent climate disaster, promote prosperity, and protect the fundamental rights of every American.

STRATEGIC PARTNER



**We Are Still In**  
[www.wearestillin.com](http://www.wearestillin.com)

The next phase of the Paris Agreement - its implementation - relies on local communities, businesses, academic institutions, faith groups, and all parts of society to take ownership over the goals of the Paris Agreement and do what they can to contribute to the transition to a cleaner future. American cities, states and tribes, businesses, universities, faith groups and many others responded to this call to action. President Trump's announcement to withdraw from the Paris Agreement only accelerated this momentum. Since the President's June 1 announcement, Governors of 14 states and Puerto Rico launched the U.S. Climate Alliance, over 400 mayors joined the Climate Mayors platform, and over 2,500 cities, states and tribes, businesses, academic institutions, and faith groups have stood together to join the "We Are Still In" network.

The U.S. Climate Action Center at COP23 in Bonn, Germany is the first ever American center operated not for the federal government, but for everyday Americans, community representatives, and business leaders. It will serve as the hub for these courageous American leaders to tell their story. Over a hundred of these leaders will be attending COP23 in Bonn, Germany to showcase their action in American communities around the country to address climate change. This action is also being quantified for the first time, and through the America's Pledge effort, it will be clear that subnational action truly adds up and makes a measurable difference in addressing climate change.



EXHIBITOR



**Teijin**  
[www.teijin.com](http://www.teijin.com)

Teijin is a technology-driven global group offering advanced solutions in the areas of environmental value; safety, security and disaster mitigation; and demographic change and increased health consciousness. Its main fields of operation are high-performance fibers such as aramid, carbon fibers & composites, healthcare, films, resin & plastic processing, polyester fibers, products converting and IT. The group has some 170 companies and around 19,000 employees spread out over 20 countries worldwide.

Under our brand statement “Human Chemistry, Human Solutions.” we promise to keep delivering real value through the development of chemical technologies that are friendly to both people and the global environment, and through the provision of solutions that society and our customers expect.

In an international community where the environment changes rapidly, today the Teijin Group is implementing a solutions-oriented business model, carrying out drastic forward-looking transformation and growth strategies. Our challenge is to create new value never before realized by integrating the competitive edge and key capabilities in each of our business domains, high-performance materials, healthcare and IT.

To discover sustainable business cases, our Solutions team can prove where environmental and financial savings go hand-in-hand. Our light and strong high performance materials support energy and resource savings over the total value chain in relation to current mainstream solutions.

With spirit and passion for supporting future society, the Teijin Group contributes to enhancing the quality of life of people everywhere.

EXHIBITOR



**Moody's Investors Service**  
[www.moody.com](http://www.moody.com)

Moody's Investors Service is a leading provider of credit ratings, research, and risk analysis. Moody's commitment and expertise contributes to transparent and integrated financial markets, and the firm's ratings and analysis track debt covering approximately 120 sovereign nations, 11,000 corporate issuers, 21,000 public finance issuers, and 72,000 structured finance obligations.who want to deliver concrete actions towards a climate resilient economy by connecting them with assets from projects and programmes that are critical to delivery of the 2C carbon budget through preserving the valuable carbon stored in tropical forests and other critical landscapes. The Ecosphere + portfolio includes projects that deliver a range of environmental and societal benefits as well as valuable physical commodities including deforestation-free agricultural produce such as coffee and cocoa created through sustainable agroforestry systems.

## Upcoming events



**Sustainable Investment Forum Europe 2018**

The Sustainable Investment Forum Europe is organised by **Climate Action**. Building on the success of the Sustainable Investment Forum in New York during Climate Week NYC, the new European Forum will be taking place on **Tuesday 13 March 2018** in **Paris, France**, gathering **250+ high-level decision-makers** from the investment community, European governments and think tanks to meet, network, share ideas and to discuss concrete solutions to the current challenges of the European and global climate finance market.

[europe.sustainableinvestmentforum.org](http://europe.sustainableinvestmentforum.org)



**Sustainable Innovation in Sport 2018**

Sustainable Innovation in Sport, is an international two day conference bringing together leaders within in the global sports sphere; from Government, UN, sports leagues and clubs, governing bodies, brands, cities, stadiums and broadcasters, to discuss the unique opportunity that the realm of sports offers the climate change effort. Launched during **COP21** with the haut patronage of the *French Government Ministere de la Ville, de la Jeunesse et des Sports*, this meeting began to drive serious stakeholder engagement and action around reducing the impact of sport on the environment.

[www.sustainableinnovationinsport.org](http://www.sustainableinnovationinsport.org)



**Sustainable Investment Forum USA 2018**

The Sustainable Investment Forum 2017 is organised by **Climate Action** in partnership with the **UN Environment Finance Initiative (UNEP FI)**. The Sustainable Investment Forum, launched in September 2016, is a high-level platform where **300+** asset owners and managers, investors, business leaders and policy-makers come to meet, network, share ideas and, most importantly, start **building the partnerships required to finance the requirements of the Paris Agreement**. The Forum will be back during **Climate Week NYC** in **September 2018**.

[usa.sustainableinvestmentforum.org](http://usa.sustainableinvestmentforum.org)

