



GOVERNMENT OF
UNITED ARAB EMIRATES

Deutsche Post DHL
Group



COP 23 RENEWABLE ENERGY DAY

Accelerating the Global Energy Transition

Sunday, 12 November 2017
Bonn, Germany

The landmark Paris Climate Agreement came into force in November, 2016. Governments have signed up to an ambitious goal: to hold the increase in global average temperature to well below 2°C above pre-industrial levels, and to pursue efforts to limit it to 1.5°C. Implicit in this goal is the need to decarbonise the energy sector, which accounts for two-thirds of global greenhouse gas emissions.

Under the Agreement, countries have put forward their emissions reduction plans through Nationally Determined Contributions (NDCs). More than 140 governments have included renewable energy as a vital element to cut emissions and increase climate resilience.

One year on, governments and thousands of stakeholders committed to the vision of the Paris Agreement will come together at COP23 in Bonn, Germany to accelerate action on its implementation. The good news is that accelerated action is both possible and beneficial. IRENA analyses show that ambitious deployment of renewable energy and energy efficiency measures can reduce around 90% of energy-related carbon emissions by 2050, while creating over 24 million jobs in the process. To reach this level of decarbonisation, the share of renewable energy would need to increase from around 15% of the primary energy supply in 2015 to 65% in 2050. This would, however, require a massive shift and a growth in investment.

Achieving this transformation will not be a question of simply replacing fossil fuels with renewable energy sources. The renewables-dominated energy system of tomorrow will look very different from the system of today. It will be characterized by innovative approaches that reflect a diversity of technologies and actors – from the smallest to the largest, both public and private. Tomorrow's energy system will be integrated across boundaries and borders to seamlessly match supply with demand, and international cooperation will be a hallmark of this effort.

With benefits extending far beyond reduced climate emissions, the energy transition has the potential to advance multiple social, economic and environmental benefits including, among others, employment, education, potential GDP growth, energy access, and reduced air pollution and health impacts. IRENA estimates that the renewable energy pathway could reduce negative externalities up to USD 10 trillion annually by 2050. National governments, municipalities, and companies around the world are embarking on this ambitious pathway. And in so doing, we are on the way to achieve the greatest energy transformation since the start of the Industrial Revolution.

To explore cutting edge ideas and innovations at the forefront of the renewable energy development and deployment, IRENA, in concert with the Government of Fiji in its capacity as COP President, the Government of Germany, the Government of the UAE and Deutsche Post DHL is holding a high-level event on the margins of the COP23.

Bringing together leading thinkers and doers in the energy sector, the conference will focus on:

- success stories featuring cross-border and cross-sector integration and cooperation
- highlighting multiple benefits of energy transformation and engaging a broad spectrum of actors
- presentation of paradigm-shifting technologies and approaches

Date & Time: Sunday, 12 November, 9:30 – 18:00

Venue: Deutsche Post DHL Post Tower building, adjacent to the conference venue

Moderator for the day: Monika Jones, news anchor at Deutsche Welle

Attendance: 250-300 participants

The conference is open to the private sector, representatives of governments (national, regional, and local) journalists, NGOs, academics and members of the public.

Refreshments, lunch and an evening reception will be provided.

Opening (9:30 - 10:00)

Welcome and Introduction

The opening will provide a snapshot on the discussions that will take place in the course of the day and speakers will shortly reflect on the state of the global energy transition.

- **Adnan Z. Amin**, Director-General, IRENA
- **Frank Bainimarama**, Prime Minister, Fiji and COP President (**invited**)

Session 1 (10:00 - 11:00)

Crossing Boundaries: Accelerating the Global Energy Transformation

With a focus on the latest renewable energy developments and front-line initiatives from countries and regions around the world, this session will highlight key trends driving an accelerated global energy transformation.

Scene setter: **Kingsmill Bond**, New Energy Analyst, Trusted Sources

- **Amani Abou Zeid**, African Union Commissioner for Energy and Infrastructure
- **Miguel Cañete**, European Commissioner for Climate Action and Energy (**invited**)
- **Rainer Baake**, State Secretary, Federal Ministry for Economic Affairs and Energy, Germany
- **Sebastian Kind**, Undersecretary for Renewables, Ministry of Energy, Argentina

China In-Focus (11:00 - 11:30)

Special Address by Shu Yinbiao, Chairman of State Grid Corporation of China.

Presentation by Zhang Lei, CEO, Envision Energy.

China is at the forefront of the global energy transition. The Chinese energy industry is also making enormous strides in addressing the country's environmental challenges. The country's energy future will be defined by the speed at which energy giants like China State Grid – the world's largest public utility serving 1.1 billion in China alone – can shift their operating paradigms, while welcoming innovative new comers such as Envision Energy. Mr. Shu and Mr. Zhang will share their insights in a dialogue with Director-General of IRENA.

Innovators and Leaders (11:30 - 12:30)

Bertrand Piccard, Solar Impulse

Transforming the global energy system will require us to push beyond existing boundaries, and perhaps no one knows this better than Dr. Piccard, Explorer and Chairman of Solar Impulse Foundation, who was the first pilot (along with André Borschberg) to circumnavigate the globe in a solar-powered aircraft. Dr. Piccard believes that the success of this initiative demonstrates that when it comes to renewable energy, not even the sky is the limit.

Alexey Tarasov, LNMSE, Lomonosov Moscow State University

As Head of the Laboratory of New Materials for Solar Energetics, Mr. Tarasov is leading Moscow State University's cutting-edge work on Perovskite solar cells. He works closely with some of the most prominent researchers in the field including Professor Michael Graetzel – awarded the Global Energy Prize in 2017. Mr. Tarasov will discuss technology innovation as a prerequisite to accelerate the global energy transformation.

Patricia Espinosa, UNFCCC

Ms. Espinosa has long been a key player in the UNFCCC process, even before her current appointment as Executive Secretary. As the Chair of the 16th Conference of Parties in 2010, the Cancún Agreements were negotiated and adopted under her leadership. At COP23, she will oversee the process of developing critical rules for implementing the Paris Agreement, and will be looking ahead to 2018 when parties begin to assess progress towards achieving the long-term goals of holding global temperature rise well below 2°C. As a member of the High-Level Panel of Eminent Persons on the Post 2015 Development Agenda, Ms. Espinosa has been a tireless advocate for integrating climate policy with the Sustainable Development Goals.

Frank Appel, Deutsche Post DHL

Deutsche Post DHL is one of the leading mail and logistics groups in the world with over 500,000 employees, and is committed to reducing all logistics-related emissions to net zero by the year 2050. The company currently operates the largest electric fleet in Germany, and ultimately plans to replace its entire mail and parcel delivery fleet with electric vehicles powered by renewables. CEO Mr. Frank Appel will discuss what led his company to adopt such ambitious goals, and what challenges he faced/is facing in implementing them.

>>Lunch/VIP Luncheon (12:30 - 13:45)<<

Leaders In-Focus (14:00 - 14:30)

Special Address: Jerry Brown, Governor of California, USA.

As one of the world's largest economies, the impact of California's energy policy reverberates well beyond the state's borders. Under Governor Brown's leadership the state is in the process of adopting one of the most ambitious renewable energy goals in the world: a new energy law will require California to produce 50% renewable energy by 2026, 60% by 2030, and 100% by 2045.

Reflections from the COP23 Host City: Ashok-Alexander Sridharan, Lord-Mayor of Bonn, Germany.

Host City of COP23 and home to 17 UN organisations and 170 relevant actors in climate mitigation and adaptation, Mayor Sridharan, also the First Vice President of ICLEI, is leading a city of vibrant international cooperation. With several ambitious programmes for renewable energy, the City of Bonn is now positioning itself as an important player in the renewable energy transformation.

Session 2 (14:45 - 16:00)

Paradigm Shifts in the Boardroom: The Corporate Face of the Energy Transformation

In this session, corporate leaders at the forefront of the energy transformation will discuss cutting-edge solutions driving not only an accelerated renewable energy deployment but also new business opportunities.

Scene setter: **Ernesto Ciorra**, Head of Innovation and Sustainability, Enel

- **Thomas Duveau**, Head of Strategy, Mobisol
- **Maxine Ghavi**, Group SVP, Program Director Microgrids, ABB
- **Thierry Lepercq**, Executive Vice President, ENGIE
- **Michelle Patron**, Director of Sustainability Policy, Microsoft

Session 3 (16:15-17:15)

Driving the Energy Transformation from the Bottom up

In this session, speakers will discuss how energy transformation at the local level can help drive change nationally, or even internationally.

- **Jean-Baptiste Cornefert**, Managing Director, Sonnen E-Services
- **Roseanna Cunningham**, Cabinet Secretary for Environment, Climate Change and Land Use, Scotland
- **Godfrey BK Kabbyanga**, Mayor of Kasese, Uganda
- **Katrin Stjernfeldt Jammeh**, Mayor of Malmö, Sweden
- **Claude Turmes**, Member European Parliament

Closing (17:15 - 17:30)

Closing remarks by Adnan Z. Amin, Director-General, IRENA, and host organisations

Reception (18:00 - 20:00)