

## Conference Programme World Future Energy Summit

MONDAY 21 JANUARY

08:30-09:45 Registration

*(note: all delegates to be in conference room by 09:45 due to security procedures)*

**OPENING CEREMONY** presided over by H.H. General Sheikh Mohammad bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces and Chairman of Mubadala

### HALL 5

09:55 - 10:00

#### Welcome

Richard Hease, Chairman, Turret Middle East

Prof. Dr. Klaus Töpfer, Former Exec. Director, UNEP

10:00-10:15

#### Address

William McDonough, architect and sustainability visionary

10:15-10:30

#### Address

The Lord Browne of Madingley, Managing Director (alternative and renewable energy markets), Riverstone Holdings LLC

10:30-10:35

Arrival of H.H. General Sheikh Mohammad bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces and Chairman of Mubadala

10:35-10:40

#### Holographic Address

HRH The Prince of Wales

10:40-10:45

#### Official Opening Address

H.H. General Sheikh Mohammad bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces and Chairman of Mubadala

10:45-10:50

#### Welcome and MASDAR overview

Dr. Sultan Ahmed Al Jaber, CEO, MASDAR, Abu Dhabi Future Energy Company

10:50-10:55

#### Address

HRH The Duke of York

10:55-11:05

#### Address

Ólafur Ragnar Grímsson, President of Iceland

11:05-11:15

#### Address

Ismail Omer Guelleh, President of Djibouti

11:15-11:20

#### Address

HE Mohammad Ahmad Al Bowardi, Secretary General of the Executive Council, Abu Dhabi

11:20-12:00

#### Delegate Refreshments Sponsored by International Power and Exhibition Free Time

Where the Renewable Energy Industry Meets

12:00-13:30 Delegate Lunch sponsored by Merrill Lynch

Where the Renewable Energy Industry Meets

**HALL 5**

**KEYNOTE SESSION 1 WORLD FUTURE ENERGY POLICY AND STRATEGY**

- 13:25-13:30 **Energy Dialogue to Respond to New Challenges**  
 H.E. Couns. Vincenzo DE LUCA, Special Envoy and Advisor of the Italian Government
- 13:30-13:35 Chair and Opening Address  
 Michael Philipp, Chairman, Credit Suisse Europe, Middle East and Africa
- 13:35-13:50 Mohammad bin Dhaen AlHamli, Minister of Energy, United Arab Emirates
- 13:50-14:05 Sam Bodman, Secretary of Energy, USA
- 14:05-14:20 Vivienne Cox, Chief Executive, BP Alternative Energy
- 14:20-14:35 Jonathon Porritt CBE, Founder Director, Forum for the Future
- 14:35-14:50 Graeme Sweeney, Executive Vice President, Future Fuels & CO2  
 Shell Downstream Services International B.V.
- 14:50-15:05 HE Dr Mohammed Saeed Al Kindi, Minister of Environment & Water, United Arab Emirates
- 15:05-15:20 State Secretary Matthias Machnig, Federal Minister for the Environment, Nature Conservation and Nuclear Safety, Germany
- 15:20- 15:35 H.E. Mr. Ossur Skarphedinsson, Minister for Energy and Industry, Iceland,
- 15:20-15:40 Close of Keynote Session 1

**15:40-16:00 Refreshments**  
**Sponsored by International Power**

**OPPORTUNITIES: FINANCE AND INVESTMENT FOR GLOBAL FUTURE ENERGY DEVELOPMENT**

**HALL 5**

**16:00-17:30 PANEL DISCUSSION**

- Chair: John Cavalier, Managing Director, Credit Suisse
- Nicholas Parker, Chairman and Co-Founder Cleantech Group LLC
  - Dr. Randal Spiers, CEO, Middle East & Africa, International Power
  - Anup Jacob, Partner, Virgin Green Fund
  - Shane Bush, Head of Renewable Energy, Standard Chartered Bank

**17:30 End of day one conference**

**19:30 WFES Gala Spectacular & Dinner at Emirates Palace**

**TUESDAY 22 JANUARY**

**HALL 5**

**KEYNOTE SESSION 2: WORLD FUTURE ENERGY POLICY AND STRATEGY**

- 09:00-09:05 Chair and opening address:  
 Mark Radka, Chief, Energy Branch, Division of Technology, Industry and Economics,  
 UN Environment Programme
- 09:05-09:20 Dr Eng. Ahmad Khaled Al Ali, Minister of Electricity, Syrian Arab Republic **tbc**
- 09:20-09:35 Martin Berg, Vice President, Merrill Lynch Commodities (Europe) Trading Limited
- 09:35-09:50 Lady Judge, Chairman, UK Atomic Energy Authority
- 09:50-10:05 Frank Heemskerck, Minister of Foreign Trade, The Netherlands
- 10:05-10:20 Philippe Boisseau, President Gas & Power, Total
- 10:20-10:35 Dr Gerd Leipold, International Executive Director, Greenpeace International
- 10:35-10:50 Liv Monica Stubholt, State Secretary of Oil and Energy, Norway
- 10:50-11:00 Discussion

**11:00-11:30 Refreshments**

**11:30-12:45 MAKING IT HAPPEN: PROJECTS, TECHNOLOGIES AND COMMERCIAL REALITIES**

**HALL 5**

**PARALLEL STREAM 1: Carbon Management**

Introduction by: Philip Moss, Manager - Carbon Markets, MASDAR

- 11.30-11.30 Chair: Barbara McKee, Director, **Department of Energy (DOE), USA**
- 11.35-11.45 *The role of CCS in combating climate change*  
 Harald Dovland  
 Senior Advisor – **ECON Pöyry**
- 11.45-11.55 *Carbon capture and storage – possibilities and projects*  
 Iain Wright  
 CO2 Project Manager  
**BP ALTERNATIVE ENERGY**
- 11.55-12.05 *CO2 management - innovation, business opportunities and drivers*  
 Michel Myhre-Nielsen  
 Manager, CO2 Value Chain  
**STATOILHYDRO NEW ENERGY**
- 12.05-12:15 *Carbon Capture and storage for Enhanced Oil Recovery in The UAE*  
 Doug Macdonald  
 Principal Consultant, Studies and Development Projects, Chemicals and Petroleum  
 Business Unit

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Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces

SNC-Lavalin Inc.

Where the Renewable Energy Industry Meets

- 12.15-12.25 *Carbon Neutrality and the VER Market*  
 Robert Casamento  
 Director,  
**ERNST & YOUNG**
- 12:25-12:35 *The role of carbon trading in controlling climate change*  
 Dr. Paul Horsnell  
 Head of Commodities Research  
**BARCLAYS**
- 12.35-12.45 Q&A

### CONF ROOM A

#### PARALLEL STREAM 2: Waste to Energy

Chair: Prof. Nickolas J. Themelis, Chair, **WASTE-TO-ENERGY RESEARCH AND TECHNOLOGY COUNCIL (WTER)** & Director, Earth Engineering Center, **COLUMBIA UNIVERSITY**

- 11.30-11.40 *Waste to energy: from greenhouse gas to renewable resource*  
 Prof. Nickolas J. Themelis, Chair, **WASTE-TO-ENERGY RESEARCH AND TECHNOLOGY COUNCIL (WTER)** & Director, Earth Engineering Center, **COLUMBIA UNIVERSITY**
- 11.40-11:50 *Value from waste: Amsterdam's waste fired power plant*  
 Speaker tbc  
**WASTE & ENERGY COMPANY, CITY OF AMSTERDAM**
- 11:50-12:00 *Another step forward in energy up-grading of Municipal Solid Waste (MSW)*  
 Juan I Unda  
 President & CEO  
**ZABALGARBI**
- 12:00- 12:10 *Animal waste – The Landhi (cattle) waste to energy project, Pakistan*  
 Ann McLean  
 Director  
**EMPOWER CONSULTANTS LTD (NEW ZEALAND)**

12:10-12:30 Q&A

**12:30-14:00 Delegate Lunch, sponsorship opportunity**

14:00-15:30 **MAKING IT HAPPEN: PROJECTS, TECHNOLOGIES AND COMMERCIAL REALITIES**

### HALL 5

#### PARALLEL STREAM 3: Solar

- 14:00-14:05 Chair: Robert Pitz-Paal, Head of Solar Research Unit, **DLR (Germany)**
- 14:05-14:15 *Experience with the First Commercial Solar Power Tower in the World and Future Solar Thermal Power Perspectives*  
 Michael Geyer, Director International Business Development  
**ABENGOA SOLAR S.A.**
- 14:15-14:25 *From Eurelios to Archimedes: the evolution of concentrated solar power generation in Europe*

Dr. Laura Cassi, **ENEL RESEARCH**

14:25-14:35 *Innovations in the solar market*  
 Jeremy Leggett, CEO, **SOLARCENTURY**

14:35-14:45 *A Diversified Approach to Thermal Solar Electric Energy. The SENER Experience"*  
 Alvaro Lorente, Operations Manager, **SENER**

14:45-14:55 *Concentrating Solar in the U.S. – the drivers, opportunities & markets*  
 John Myles, President/CEO, **SOLARGENIX**

14:55-15:30 **Discussion**

**CONF ROOM A**

**PARALLEL STREAM 4: Clean Transport**

Chair: Prof. Dr. Nasir El Bassam, President of the Board & Director, **INTERNATIONAL RESEARCH CENTRE FOR RENEWABLE ENERGY (IFEED)**

14:00-14:25 *New developments with electric and hybrid vehicles*  
 Mike Kimberley  
 CEO  
**Group LOTUS plc**

14:25-14:50 *Case study: GMs environmentally-friendly vehicle technology*  
 Mary Beth Stanek  
 Director Environment, Energy and Safety Policy  
**GM CORPORATION**

14:50-15:15 *Alternative fuels for aviation: What are the drivers? What are the options?*  
 Dr Mike Farmery  
 Global Fuel Technical & Quality Manager  
**SHELL AVIATION LTD**

15:15-15:30 Q&A

**CONF ROOM B**

**PARALLEL STREAM 5: Other (Geothermal, fuel cells, ocean power)**

Chair: Dr Andreas Wiese, Director of Business Development, **Lahmeyer International GmbH**

14:00-14:25 *Utilisation of geothermal resources*  
 Prof. John W. Lund  
 Director, Geo-Heat Centre & Professor Emeritus of Civil Engineering  
 & President of the International Geothermal Association  
**OREGON INSTITUTE OF TECHNOLOGY**

14:25-14:50 *Fuel cell power packs: Creating an alternative to the internal combustion engine*  
 Frank Elefsen  
 Technology Manager, Industry and Energy  
**DANISH TECHNOLOGICAL INSTITUTE**

14:50-15:15 *Ocean power and the Submersible Power Generator (SPG)*  
 Prof. Dr. Manfred Kuehnle  
 Chairman & CEO  
**CURRENT TO CURRENT CORP**

15:15-15:30 Q&A

**15:30-16:00 Refreshments**

16:00-17:30 **MAKING IT HAPPEN: PROJECTS, TECHNOLOGIES AND COMMERCIAL REALITIES**

**HALL 5**  
**PARALLEL STREAM 6: Biofuels**

Chair: Ann Cormack, CEO, **D1-BP Fuel Crops.**

16:00-16:15 *How to Commercialise Your Alternative Fuel – The Challenges And How To Overcome Them*  
 Malcolm Wells  
 Communications Manager  
**SASOL CHEVRON**

16:15-16:30 *The future of biofuels: second generation bioethanol*  
 Santiago Seage  
 Head of Strategy and Corporate Development  
**ABENGOA**

16.30-16.45 *Jatropha – from seed to filling station*  
 Alok Adholeya  
 Director, Biotechnology and Management of Bioresources Division  
**THE ENERGY AND RESOURCES INSTITUTE (TERI), INDIA**

16:45-17:00 *BTL - Commercial Reality*  
 Tom Blades, CEO  
**CHOREN**

17:00 -17:30 Q&A

**CONF ROOM A**  
**PARALLEL STREAM 7: Wind**

Chair: Steve Sawyer, Secretary General, **GLOBAL WIND ENERGY COUNCIL**

16:00-16:25 *Overview of current wind energy projects and their contribution to global energy supply*  
 Steve Sawyer  
 Secretary General  
**GLOBAL WIND ENERGY COUNCIL**

16:25-16:50 *Innovation and new developments on the Kriegers Flak project*  
 Göran Dandanell  
 Head of Project Development  
**VATTENFALL AB**

16:50-17:15 *Case Study: Delivering the Vision of Renewable Energy*  
 Mark Ennis

Executive Director  
 AIRTRICITY

17:15-17:30 Q&A

17:30 **End of day two conference**

**WEDNESDAY 23 JANUARY**

**HALL 5**

**KEYNOTE SESSION 3: WORLD FUTURE ENERGY POLICY AND STRATEGY**

- |             |  |
|-------------|--|
| 09:00-09:15 | Chairman and opening address<br>Casey Olson, President, Oxy Oil & Gas - Eastern Hemisphere   |
| 09:15-09:30 | Prof. Klaus Töpfer, former Executive Director, UNEP  |
| 09:30-09:45 | Lakhder Benmazouz, Director of Renewable Energies, Ministry of Energy & Mines, Algeria   |
| 09:45-10:00 | Jean-Paul Jeanrenaud, Director of One Living Planet, WWF International   |
| 10:00-10:15 | Prof Ali Sayigh, Chairman of World Renewable Energy Congress, Director General of & Editor-in-chief Renewable Energy   |
| 10:15-10:30 | Kateri Callahan, President, Alliance to Save Energy  |
| 10:30-10:35 | Renewing Hope: Alternative Energy in Mitigating Effects of Climate Change in Small Island States' and the speech will be Fathuhulla Jameel, Special Advisor to the President of the Republic of Maldives |
| 10:35-11:00 | Discussion   |

11:00-11:30 **Delegate Refreshment Break**  
 Sponsored by **Occidental Petroleum Corporation**

**HALL 5**

**SPECIAL SESSION: Green Buildings**

Prof. Phil Jones, Chair of Architectural Science and Director of Arcitectural Science Research Head of Welsh School of Architecture, **CARDIFF UNIVERSITY**

- |             |   |
|-------------|---|
| 11:30-11:45 | <i>From wind towers to lighthouses and beyond: the evolution of low carbon, sustainable high rise buildings in the Middle East</i><br>Richard Smith, Technical Director and Regional Head of Technology<br><b>WS ATKINS &amp; PARTNERS OVERSEAS</b> |
| 11:45-12:00 | <i>Carbon neutral buildings – the next generation</i><br>Peter Sharratt<br>Divisional Managing Director<br><b>WSP ENERGY LTD.</b>   |

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Where the Renewable Energy Industry Meets

- 12:00-12:15 *Density, Energy and Urban Design*  
 Christopher Choa,  
*Principal*  
**EDAW**
- 12:15-12:30 *Financing Sustainable Development - Government and Investor Perspectives*  
 Nick Beglinger  
 CEO  
**FOUNDATION FOR INTERNATIONAL SUSTAINABILITY**
- 12:30-13:00 Discussion
- 13:00-14:30 Delegate Lunch, sponsorship opportunity**

**HALL 5**

**PUSHING THE BOUNDARIES: ENERGY ON THE HORIZON TO 2028 AND BEYOND**

- 14:30-15:30 PANEL DISCUSSION**  
**Research and education initiatives needed to build capacity for the future energy needs of the world:**  
 Chair: Dr Russel Jones, President, MASDAR Institute for Science and Technology  
 Panellists:
- Professor Nigel Brandon, Shell Chair in Sustainable Development in Energy, Imperial College London
  - Professor Siva Sivoththaman, Professor of Electrical and Computer Engineering, University of Waterloo
  - Professor Armin Schnettler, Director, Institute for High Voltage Technology, Aachen Technical University
  - Bill Aulet, Senior Lecturer, MIT Entrepreneurship Center
  - Dr Michael Ohadi, Professor of Mechanical Engineering, CAO and Acting Executive Director, Petroleum Institute

- 15:30- 16:00 Refreshments**  
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**HALL 5**

**PUSHING THE BOUNDARIES: ENERGY ON THE HORIZON TO 2028 AND BEYOND**

- 16:00-16:30 **The impact of the peak oil crisis on world future energy**  
 David Strahan, author, "The Last Oil Shock: A Survival Guide to the Imminent Extinction of Petroleum Man"
- 16:30-16:45 Q&A
- HALL 5**  
**CLOSING KEYNOTE: SUSTAINABLE ARCHITECTURE OF THE FUTURE**
- 16:45 Lord Foster, Founder and Chairman, Foster + Partners
- 17:30 End of conference