

Energy Trilemma Summit

How to Improve Energy Trilemma Balance in an Era of Innovation

Thursday, 19 October 2017

Lisbon, Portugal

Hosted by the World Energy Council

The World Energy Council has set the “Energy Trilemma” agenda, highlighting the trade-offs between three dimensions – energy security, energy equity (energy access and affordability) and environmental sustainability.

The Energy Trilemma Summit is an exclusive opportunity for the Council’s community and energy leaders of the region, together with special guests, to focus on ways to overcome the Energy Trilemma and to secure prosperity.

The agenda will build upon insights gained from the World Energy Council’s on-going studies, including the World Energy Trilemma and the World Energy Scenarios. Many of the new signals emerging - disruptive digitalisation, the commitment to decarbonisation and desire, in some countries, for a more national focus - indicate that new frameworks for thinking are needed. We cannot banish uncertainty, but we can offer to stimulate thinking of what might be certain and uncertain and where the new opportunities and risk exposures might be.

The Energy Trilemma Summit is an opportunity for energy leaders of the region to advance in a dialogue between the public and private sectors to design a long-term energy policy under the framework of the Energy Trilemma.

Contact: Global Agenda Team, World Energy Council at global.agenda@worldenergy.org

**300 ENERGY LEADERS
FROM PUBLIC AND
PRIVATE SECTORS**

**SPECIAL ADDRESS BY
THE PRESIDENT OF
PORTUGAL**

**NEW DYNAMICS OF
NATURAL GAS AND
LNG MARKETS**

BLOCKCHAIN

**DECENTRALISED
SYSTEMS FOR
1.1 BILLION PEOPLE
WITHOUT ACCESS**

**CLIMATE CHANGE
AND THE ROAD TO
RESILIENCE**

Programme overview

Venue: Epic Sana Lisboa Hotel (Av. Eng. Duarte Pacheco 15, 1070-100 Lisboa)

Main Meeting Room: Morus

Thursday, 19 th September		
Registration (08.30 – 09.00)		
Opening Remarks (09.00 – 09.15) <i>Room: Morus I to IV</i>		
New Dynamics of Natural Gas and LNG Markets (09.15 – 10.45) <i>Room: Morus I to IV</i>		
Break (10.45 – 11.15)		
Blockchain: What is it and what is the potential for the energy sector? (11.15 – 12.30) <i>Room: Morus I to IV</i>		
Energy Trilemma Summit	Lunch (12.30 – 14.00) <i>Room: TBC</i>	
	Decentralised Systems for 1.1 Billion People without Energy Access (14.00 – 15.15) <i>Room: Morus I to III</i>	
	Break (15.15 – 15.45)	
Climate Change and the Road to Resilience (15.45 – 17.00) <i>Room: Morus I to III</i>	World Energy Leaders’ Summit* * separate programme	
Break (17.00 – 17.30)		
Closing Plenary: Special Address by His Excellency Marcelo Rebelo de Sousa, President of Portugal (17.30 – 18.30) <i>Room: Morus I to IV</i>		

Meeting topics

- New Dynamics of Natural Gas and LNG Markets
- Blockchain
- Decentralised Systems for 1.1 Billion People without Energy Access
- Climate Change and the Road to Resilience
- Special Address by the President of Portugal

Meeting and session format

The morning plenary sessions are joint Energy Trilemma Summit and World Energy Leaders' Summit sessions open to all participants. Energy Trilemma Summit and World Energy Leaders' Summit participants have separate lunches and afternoon programming and will come together for the closing session, which is a Special Address by the President of Portugal, His Excellency Marcelo Rebelo de Sousa.

Session Format

The moderator will invite discussion leaders to present their viewpoint for 5 minutes and engage the discussion leaders in a lively conversation, building on their earlier comments and to get their perspectives on various dimensions of the question. The moderator will invite the audience to pose 3-4 brief questions to the discussion leaders. When taking questions from the floor, the moderator will ask delegates to introduce themselves, keep interventions brief and will not allow for statements.

Programme in detail

Venue: Epic Sana Lisboa Hotel (Av. Eng. Duarte Pacheco 15, 1070-100 Lisboa)

Main Meeting Room: Morus

Thursday, 19th October

08.30 – 09.00 **Registration**

Hotel lobby

09.00 – 09.15 **Opening Remarks**

Morus I to IV

- **Younghoon David Kim**, Chair, World Energy Council, Korea (Rep.)

09.15 – 10.45 **New Dynamics of Natural Gas and LNG Markets**

Morus I to IV

(Joint Energy Trilemma Summit and World Energy Leaders' Summit session)

Natural gas markets are set to undergo a significant transition over the next decade with new supply sources and technologies coming on stream. This session will share perspectives on future of natural gas and LNG markets and explore solutions to manage the relevant risks. It will also highlight the changing role of gas in the wider energy system.

What will the impact of these new dynamics be on existing player and where will the new opportunities emerge? How can infrastructure operators manage lower asset values in regions exposed to a decrease in demand? What is next for Asian LNG markets? What is the impact of increased competition in Asian markets and the new supply sources on price?

Discussion Leaders

- **Gerald Davis**, President & CEO, Forescene SA; Executive Chair, World Energy Scenarios, World Energy Council, UK
- **Carlos Gomes da Silva***, CEO, Galp Energia, Portugal
- **M. Mustapha Guitouni**, Minister of Energy, Algeria
- **Francisco Mendes Palma**, CEO, Aicep Global Parques, Portugal
- **Shigeru Muraki**, Executive Advisor, Tokyo Gas, Japan
- **Žygimantas Vaičiūnas**, Minister of Energy, Lithuania

Moderator

- **Roland Rechtsteiner**, Partner, Global Head of Oil & Gas Practice, Oliver Wyman, UK

10.45 – 11.15 **Networking Break**

11.15 – 12.30
Morus I to IV

Blockchain: What is it and what is the potential for the energy sector?

(Joint Energy Trilemma Summit and World Energy Leaders' Summit session)

A new word is being talked about in boardrooms and ministries around the world, but do we really understand the potential of this disruptive technology? Beyond the digitalisation of the energy sector, the introduction of blockchain technologies has the potential to transform energy systems. This session will increase high-level recognition of the blockchain in the energy sector and identify potential solutions to address the issues.

What are blockchain's opportunities and risks in the energy sector? What are the latest updates on pilots, use cases and scalability? What are the regulatory obstacles associated with the implementation of blockchain applications and what are the issues to be addressed? How will blockchain impact company and state value chain infrastructure related to the energy sector?

Discussion Leaders

- **Gerhard Gamperl**, Director, Corporate Development and Innovation, Verbund AG, Austria
- **Karl Gruber**, General Manager, Wien Energie GmbH, Austria
- **Ewald Hesse**, Vice President, Energy Web Foundation, Austria
- **Urban Keussen**, CEO, TenneT TSO, Germany
- **António Mexia***, CEO, Energias de Portugal (EDP), Portugal

Firestarter

- **Alex von Perfall**, Senior Director, Digital Energy Advisory, PwC, Germany

Moderator

- **Folker Trepte**, Partner, PwC, Germany

12.30 – 14.00
Room: TBC

Lunch

14.00 – 15.15
Morus I to III

Decentralised Systems for 1.1 Billion People without Energy Access

1.1 billion people still live without access to electricity, more than 80% of which live in rural areas. Decentralised electrification system is a key to reach out to remote rural areas. The rise of innovative and disruptive business models for decentralised systems is reshaping rural development.

What are the opportunities and challenges for developing decentralised system? How can these new business models accelerate their reach by accessing additional commercial financing? What are enabling policies to further accelerate the momentum of off-grid electrification?

Discussion Leaders

- **Simon Bransfield-Garth**, CEO, Azuri Technologies Ltd, UK
- **Elham Ibrahim**, Vice Chair for Africa, World Energy Council, Egypt

- **Thomas Rieger**, Director of Strategic Business Development, SolarKiosk, Germany
- **Abubakar Sani Sambo***, Special Adviser to the President of Nigeria on Energy, Nigeria

Moderator

- **Philip Lowe**, Executive Chair of World Energy Trilemma, World Energy Council, Belgium

15.15 – 15.45 **Networking Break**

15.45 – 17.00 **Climate Change and the Road to Resilience**
Morus I to III

The energy industry is going through extraordinary change and has to become resilient against a number of new and growing risks. The World Energy Council considers the following three resilience areas as priority: 1) the increasing competition for water and a tightening energy, water and food nexus, 2) the increasing frequency of and exposure to extreme weather events, and 3) the increasing digitisation and interconnection with exposure to cyber risks. This session will explore infrastructure solutions, financing and policy solutions that are needed to prepare for the “new normal” and ensure increased energy system resilience.

What are the most significant climate change related risks faced by the energy industry? How are these new risks impacting on the design, operation of, and investment in, the energy system? How can new long-lived energy investments best be de-risked and thus attract necessary capital?

Discussion Leaders

- **Colin Andersen**, Chairman, Energy Council of Canada, Canada
- **João Paulo Araújo Oliveira**, Member of the Board, The Navigator Company, Portugal
- **Stuart Brown**, Head Origination Weather and Energy EMEA and APAC, Swiss Re, UK
- **Claudia Cronenbold**, Chair of the Board, Bolivian Chamber of Hydrocarbons and Energy, Bolivia
- **Teruaki Masumoto**, Chairman, Japan Energy Association, Japan

Moderator

- **Pirjo Jantunan**, Corporate Social Responsibility Manager, Helen Ltd; Chair, Future Energy Leader’s Programme, World Energy Council,

17.00 – 17.30 **Networking Break**

17.30 – 18.30
Morus I to IV

Closing Plenary

Special Address by His Excellency Marcelo Rebelo de Sousa, President of Portugal

About the World Energy Council

The World Energy Council is the principal impartial network of leaders and practitioners promoting an affordable, stable and environmentally sensitive energy system for the greatest benefit of all.

Formed in 1923, the Council is the UN-accredited global energy body, representing the entire energy spectrum, with more than 3000 member organisations located in over 90 countries and drawn from governments, private and state corporations, academia, NGOs and energy-related stakeholders.

The World Energy Council informs global, regional and national energy strategies by hosting high-level events, publishing authoritative studies, and working through its extensive member network to facilitate the world's energy policy dialogue.

World Energy Council's Flagship Publications

(Please click on each report to follow the link)

- [World Energy Issues Monitor 2017](#)
- [World Energy Trilemma 2016](#)
- [World Energy Trilemma Index 2016](#)
- [World Energy Resources 2016](#)
- [World Energy Scenarios 2016](#)

For more information about our events, please visit <https://www.worldenergy.org/events/> or write to us at global.agenda@worldenergy.org.

World Energy Council | 62-64 Cornhill, London EC3V 3NH, United Kingdom

www.worldenergy.org | [@WECouncil](https://twitter.com/WECouncil)