



7-9 OCTOBER 2020

## Connecting energy societies

### 3-DAY DIGITAL EVENT

World Energy Week is the World Energy Council's largest annual gathering dedicated to global energy matters. It is a powerful platform that connects regional realities and priorities with the global energy agenda. The event brings together our entire energy+ community to address whole energy systems' challenges and opportunities, drive practical action and help shape the future of energy.

Under the theme of 'Connecting Energy Societies', this year's World Energy Week is an exciting and energising

digital event. Our LIVE edition will connect stakeholders worldwide in dynamic regional and global dialogue across three days, on key themes including resilience and dealing with disruption.

Across Asia-Pacific, Europe, Africa, Middle East & Gulf States, North America, and Latin America & the Caribbean, we invite all of the Council's Member Committees and the wider global energy+ community to engage and participate in this conversation driven by the Council's Vision 2025 to humanise the energy transition agenda.

### Headline Speakers



**HE Alexander Novak**, Minister of Energy, Russian Federation



**Jean-Bernard Lévy**, Chairman & CEO, EDF



**HE Francisco Javier López**, Energy Undersecretary, Government of Chile



**Kadri Simson**, Commissioner for Energy, European Commission



**HE Kornelia Shilunga**, Deputy Minister of Mines and Energy, Government of Namibia



**Gurdeep Singh**, Chairman & Managing Director, NTPC



**Angela Wilkinson**, Secretary General & CEO, World Energy Council



**Kirill Komarov**, First Deputy Director General for Corporate Development and International Business, ROSATOM



**Paddy Padmanathan**, President & CEO, ACWA Power



**Pavel Livinsky**, Chairman of the Management Board & Director General, Rosseti



**Alan Finkel**, Chief Scientist, Australia



**Jochen Eickholt**, Executive Board Member, Siemens Energy

**THIS IS A FREE EVENT, BUT YOU MUST REGISTER IN ADVANCE**



## Topics

- Navigating the post-pandemic future
- Policy pathfinding in the new normal
- The role of hydrogen as a clean energy vector
- @UXYfg\jd UbX' resilience amid disruption
- Innovation ecosystems masterclass



**GLOBAL PLENARIES**



**REGIONAL SESSIONS**



**ONE-ON-ONE INTERVIEWS**



**NETWORKING ACTIVITIES**

## Programme

**WEDNESDAY 7 OCTOBER**

**DAY 1**

08.00 - 09.00



### Connecting energy societies

Covid-19 demonstrates the need for diverse and highly uneven societies to work together in agile ways to manage new global threats and to share the benefits of global energy developments and digital connectivity. Recovery plans have a common human-centred emphasis and appreciation for a new context of what is affordable. This moment is an opportunity to engage with the transformational power of customer-centric, collaborative innovation.

- How has the crisis redirected leadership attention to or away from global energy transition? Is there greater openness to alternative pathways for socially sustainable and climate neutral transition?
- Who will take the lead in addressing the costs and co-benefits to societies of whole energy system transition and addressing issues of energy affordability, access and social justice?
- How can collaborative innovation in energy transition close the multiple and widening access gaps within and between connected energy societies?

**MODERATOR:** Serge Colle, Global Power & Utilities Leader, EY

**SPEAKERS:** Jean-Bernard Lévy, Chairman & CEO, EDF

Leena Srivastava, Deputy Director General for Science, IIASA

Kirill Komarov, First Deputy Director General for Corporate Development and International Business, ROSATOM

Jochen Eickholt, Executive Board Member, Siemens Energy

Angela Wilkinson, Secretary General & CEO, World Energy Council

09.15 - 10.15



### Managing energy transition in the Middle East

A discussion brought to you from the World Energy Council's Middle East and Gulf States community to explore the challenges, investment options and opportunities for the region's energy transition.

**MODERATOR:** Eithne Treanor, Executive Chair WE Talks, World Energy Council

**SPEAKERS:** Adam Sieminski, President, KAPSARC

Adnan Shihab-Eldin, Director General, Kuwait Foundation for the Advancement of Sciences

Nasser Saidi, Founder and President, Nasser Saidi & Associates

Robin Mills, CEO, Qamar Energy

10.15 - 10.45



### Networking break



12.30 - 13.00



## One-on-one interview

13.00 - 14.00



## Navigating the post-pandemic future

The global health emergency has been a stress test of humanity and the underlying energy systems on which all societies depend. There is still much we do not know, including whether there will be a second wave of infections. Leaders do not have the luxury of time to delay in taking action, even when there is uncertainty of what will unfold. However, they can use post-crisis scenarios to design better recovery plans.

- What signals of the 'next/new normal' are energy transition leaders paying attention to?
- How can businesses, governments and the societies they serve better prepare for a post-pandemic future?
- Will the race to net zero continue successfully, or are we seeing different ambitions for sustainable and regenerative development?

**MODERATOR:** Muqsit Ashraf, Senior Managing Director and Global Energy Sector Lead, Accenture

**SPEAKERS:** Jeanne Ng, Director, CLP Research Institute, CLP

Leonhard Birnbaum, Chief Operating Officer – Integration, E.ON; Chair, Studies Committee, World Energy Council

Mike Howard, CEO, EPRI; Vice Chair, Special Responsibility for Innovation, World Energy Council

Ged Davis, Executive Chair, Scenarios, World Energy Council

15.00 - 16.00



## Leadership and resilience amid disruption

The impact of Covid-19 on the energy sector has been far reaching and extensive, exposing new vulnerabilities. The crisis underscores the need for whole energy system resilience, extending to people and supply chains, to ensure reliable energy flows in the face of multiple emerging and systemic risks, disruptions and shocks. What are the leadership questions in managing energy transition in this broad and fast shifting landscape? How are leaders thinking about whole system resilience? This session will explore what is keeping energy industry leaders awake at night and dig deeper into the emerging nexus of issues that have emerged, particularly in this time of widespread disruption.

- What resilience issues are energy leaders paying most attention to?
- How can energy firms and societies look beyond single issues and address connected resilience challenges and risks?
- Who will take the lead in addressing the energy-cyber-health security nexus?

**MODERATOR:** Filippo Gaddo, Head of Energy Economics, ARUP

**SPEAKERS:** Thomas Leurent, CEO, Akselos

Yana Popkostova, Founder & Managing Director, European Centre for Energy and Geopolitical Analysis

Gurdeep Singh, Chairman & Managing Director, NTPC; Secretary General, India Member Committee, World Energy Council

Emmanuel Lagarrigue, Chief Innovation Officer and Member of the Global Executive Committee, Schneider Electric



16.15 – 17.15



## Activating Latin America's sustainable green recovery

A discussion brought to you from the World Energy Council's Latin American and Caribbean community to address the post-pandemic challenges and opportunities in accelerating sustainable energy transition in the region.

**MODERATOR:** Alejandra Salazar, Senior Manager Renewable Energy, Wood

**SPEAKERS:** Claudio Seebach, Executive Chairman, Chilean Association of Power Generators

Maurizio Bezzeccheri, Head, Latin America, Enel Group

Guadalupe Gonzalez, Director of Electricity, Secretary of Energy, Government of Panama

17.15 – 17.45



## Networking break

**THURSDAY 8 OCTOBER**

**DAY 2**

07.00 - 08.00



## Balancing the energy trilemma in Asia & the Pacific

As the Asia-Pacific region is increasingly engaged in climate change and energy transition dialogues, the region's key stakeholders are looking to the Energy Trilemma Index to assess their country's energy policy and performance across Energy Security, Energy Equity and Environmental Sustainability. Pan-Asian collaboration is critical to balance the energy trilemma in the region. However, such a vast and diverse region has a complexity of challenges, such as geopolitical tensions, sub-regional integration issues, the challenge of sustaining domestic economic development while aiming to reduce emissions. Furthermore, national governments now face a global health emergency.

There are notable achievements to celebrate in the Energy Trilemma Index in the Asia-Pacific, for example the 2019 index showcased the successes of New Zealand (ranked #10 globally); Singapore (#10 in equity) and Cambodia, Myanmar and China as 3 of the top 10 overall improvers.

- How can the government and business sectors contribute to the energy transition process given their current decision-making powers?
- How can governments and businesses speed up the pace of green transformation? What are the main barriers and what is needed to overcome them?
- What technology innovations have great potential for the different countries in the Asia-Pacific region to balance the Energy Trilemma?

**MODERATOR:** Jeanne Ng, Director, CLP Research Institute, CLP

**SPEAKERS:** Zhai Yongping, Chief of Energy Sector Group, ADB

Tina Schirr, Executive Director, BusinessNZ Energy Council

Andrew Caseley, CEO, Energy Efficiency and Conservation Authority

Nobuo Tanaka, Former Executive Director, IEA

Shigeru (Sam) Muraki, Executive Advisor, Tokyo Gas; Vice Chair, Asia Pacific / South Asia, World Energy Council



08.00 – 09.00



## The role of grids in the energy transition

As demand for renewable and net zero carbon power is expected to triple by 2050, how might transmission companies play an increasingly central role in the development of decentralised, digitised and decarbonised grids? Whilst there is no “one-size-fits-all” approach, many companies face similar challenges – maintaining social licence to operate, talent and skills acquisition, integrating larger volumes of variable renewables and the increasing importance of regional interconnection.

- Will there be a single global grid or a series of connected regional grids by 2050 and what might they look like?
- What is the role of traditional grid actors such as Transmission System Operators (TSOs) and Distribution System Operators (DSOs) in innovation?
- How are TSOs responding to the shift to customer-centric energy systems and anticipating new demand-side disruptions?

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**MODERATOR:** Paul Nillesen, Partner, Strategy&, PwC

**SPEAKERS:** Suzanne Falvi, Executive General Manager, Strategy and Economic Analysis, AEMC

Roberto Zangrandi, Secretary General, E.DSO

Gianluca Corbellini, CEO and Co-founder, Hive Power

Pavel Livinsky, Chairman of the Management Board and Director General, Rosseti

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08.00 – 09.30



## Start Up Energy Transition: Innovation masterclass

Effective innovation is needed to successfully navigate the energy transition and achieve energy prosperity for all. However, creating effective innovation ecosystems that attract and support start-ups and innovation entrepreneurs can be complex and requires a combination of an enabling policy environment, robust skills development, access to adequate public and private sector investment, and open interaction among diverse actors.

- What are some of the greatest barriers faced by start-ups, and how can the government and private sector help to ease them?  
With hindsight, what lessons can be learnt from the challenges and barriers encountered?
- What are successful examples and good practices of friendly regulatory environments for start-ups?
- Which incentives encourage start-ups to establish in a particular country?

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**MODERATOR:** Philippe Joubert, Senior Advisor to the Secretary General, World Energy Council

**FIRESTARTERS:** Robert Andren, Director General, Swedish Energy Agency

Isaac Rutenberg, Director Center for Intellectual Property and Information  
Technology Law, Strathmore University

**SPEAKERS:** Mathew Mazhuvanchery, Co-Founder, Chief Executive Officer, Distributed Energy  
Oscar Hoyos, CEO, Uptime Analytics

**COMMENTATORS:** Gina Domanig, Managing Partner, Emerald Ventures; Executive Co-Chair,  
Innovation, World Energy Council

Richard Lancaster, CEO, CLP Power; Executive Co-Chair, Innovation, World  
Energy Council

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09.30-10.30



## **Bridging the African power supply deficit**

A discussion brought to you from the World Energy Council's Africa regional community to address Integrated Resource Planning (IRP) as an effective tool to bridge the African power supply deficit.

**MODERATOR:** Sean Cleary, Chairman, Strategic Concepts

**SPEAKERS:** Abel Didier Tella, Director General, APUA

Faruk Yabo Yusuf, Director, Renewable Energy & Rural Access, Federal Ministry of Power Nigeria

HE Kornelia Shilunga, Deputy Minister of Mines and Energy, Government of Namibia

Abubakar Sani Sambo, Chairman, Nigeria Member Committee, World Energy Council

10.30-11.00



## **Networking break**

12.00 - 14.00

## **World Energy Leaders' Summit Emerging from a crisis stronger and faster together - by invitation only**

The dramatic impact of the COVID-19 crisis across all sectors, regions and society is resulting in the largest capital reallocation ever seen. Businesses, governments, and societies everywhere are facing new challenges and choices in developing recovery plans to grapple with a global health emergency. Internationally, energy leaders face unprecedented challenges to connect energy societies and to understand the crisis's impact and that of recovery plans on energy transition.

The Secretary General of the World Energy Council warmly invites our CEO and Ministerial community to a private and informal dialogue to engage and exchange with peers on the impacts of crisis and recovery plans, and to take part in a live solutions-finding discussion at a time which calls for an exceptional leadership response.

*If you are interested in attending and have not received an invitation, please contact the Global Agenda team of the World Energy Council.*

12.30 - 13.00



## **One-on-one interview**

13.00 - 14.30



## **Start Up Energy Transition: Innovation masterclass (repeat broadcast)**

15.00 - 16.00



## **Policy pathfinding in the new normal**

This year, the World Energy Council celebrates the 10th anniversary of our World Energy Trilemma. Since its launch in 2010, the Trilemma has provided an objective rating of a country's energy policy and performance across Energy Security, Energy Equity and Environmental Sustainability. As an energy policy pathfinding tool, countries can use it to assess the impact of their policies over time. The session will launch the 2020 report, review its highlights, and discuss the top performers and best practices coming out of countries.

- What successful approaches have countries adopted to improve their performance on energy security, equity and affordability and environmental sustainability?
- How can city and provincial level assessment help meet the challenge of humanising energy transition?



- What policy shifts are we likely to observe from governmental recovery plans? How will they impact future country Trilemma performance?

**MODERATOR:** François Austin, Partner and Global Head, Energy, Oliver Wyman

**SPEAKERS:** HE Francisco Javier López Díaz, Energy Undersecretary, Government of Chile

Sir Philip Lowe, Executive Chair, Trilemma, World Energy Council

Abubakar Sani Sambo, Chairman, Nigeria Member Committee, World Energy Council

Martin Young, Senior Director, Insights, World Energy Council

16.15 – 17.15



## Facilitating transition of the oil and gas industry in North America

A discussion brought to you from the World Energy Council's North America community to explore latest developments and opportunities in decarbonising the region's extensive energy systems.

**MODERATOR:** Helima Croft, Managing Director and Global Head of Commodity Strategy, RBC Capital Markets

**SPEAKERS:** David Hardie, Director Liability Strategy, Alberta Energy Regulator

Rodolfo Guzman, Managing Partner Americas, Arthur D Little

Mike Howard, CEO, EPRI; Vice Chair, Special Responsibility for Innovation, World Energy Council

Kent Kaufeld, Canada Leader, Energy, EY

17.15 – 17.45



## Networking break

**FRIDAY 9 OCTOBER**

**DAY 3**

08.00 – 08.30



## One-on-one interview with HE Alexander Novak, Minister of Energy, Russian Federation

08.30 – 08:45

## Address from the World Energy Council Secretary General

09:00 – 10:00



## Road to Congress 2022

Diverse and globally connected societies are striving to move faster and further together through global energy transition to ensure the future of humanity and enable better lives, new livelihoods and a healthy planet. In the ongoing shift to customer-centric energy systems, value creation will continue to move closer to the end-user and a new context of disruptive, demand-driven innovation will be shaped by the rise of digitally empowered prosumers and growing demand for 'energy+' services. The urgency to humanise energy transition requires engaging new and unconventional stakeholders, across and beyond the energy industry - including those impacted by energy transition and new demand aggregators.



In a series of discussions in the run up to the 25th World Energy Congress in St. Petersburg on 24-27 October 2022, this session explores energy as a social good and the costs and implications of faster system turnover, such as the risk of rapidly stranded assets and the opportunities of building the 'energy+' industry community.

- Which new and unconventional actors need to be engaged to enable socially sustainable, climate neutral energy transition pathways?
- Who can convene the 'energy+' community?
- How can regional and technological diversity be respected and used as a strength?
- How can the growing risks of fragmentation of energy transition leadership and extreme polarisation be avoided?

**MODERATOR:** Sergey Brilev, Deputy Director, TV Channel "Rossiya", President, Global Energy Association  
Leonhard Birnbaum, Chief Operating Officer - Integration, E.ON  
Gina Domanig, Managing Partner, Emerald Ventures  
Paddy Padmanathan, President and CEO, ACWA Power  
Angela Wilkinson, Secretary General & CEO, World Energy Council

10.15 – 10.45



## Networking break

12.00 – 13.00



## Investing in a new energy future for Europe

A discussion brought to you from the World Energy Council's European regional community to explore country perspectives on the EU Commission's European Recovery Plan and energy transition pathways to reach carbon neutrality goals.

**MODERATOR:** William D'haeseleer, Professor, University of Leuven; Chair, Belgium Member Committee, World Energy Council

**SPEAKERS:** Hando Sutter, Chairman of the Management Board, Eesti Energia  
Randolph Brazier, Head of Innovation & Development, Energy Networks Association  
Yana Popkostova, Founder & Managing Director, European Centre for Energy and Geopolitical Analysis  
Kadri Simson, Commissioner for Energy, European Commission  
Alexandre Perra, Group Senior Executive Vice President, Innovation, Strategy and Planning, EDF; Vice Chair, Europe, World Energy Council

13.00 – 14.00



## The role of hydrogen as a clean energy vector

The technological and economic feasibility of clean (i.e. net zero carbon) hydrogen and hydrogen-based fuels is rapidly improving. Clean hydrogen and hydrogen-based fuels have multiple uses – they can be used to: decarbonise hard-to-abate sectors (such as zero emissions steel and transport); to accelerate the renewables power revolution; to provide new energy storage solutions; and/or, as part of the development of new models of circular carbon economy. While there are various clean hydrogen production pathways and increasing investment interest by governments, there is an urgent need to avoid a hydrogen bubble and bring technology producers and users together. Emerging challenges include maintaining an open and level playing field, addressing public safety concerns and triggering the pull of new demand and anticipating demand competition in the development of regional and global value chains.



- Will clean hydrogen be less than 4% or more than 10% of the global energy mix by 2040?
- Which countries are taking the lead in developing clean hydrogen and what does this involve e.g. repurposing existing hydrogen production, building new markets, regional value chains, etc.?
- How are public safety concerns being anticipated and addressed?
- Where does clean hydrogen feature in the new geopolitics of clean energy security?
- How do we build demand?

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**MODERATOR:** Tatiana Mitrova, Director, SKOLKOVO Energy Centre

**SPEAKERS:** Emmanouil Kakaras, Senior Vice President and Head of New Business, Mitsubishi Power Europe

Alan Finkel, Chief Scientist, Australia; Executive Officer, National Science and Technology Council

Alena Fargere, Principal, SWEN Capital Partners

Carsten Rolle, Head of Department of Energy and Climate Policy, BDI; Secretary General, Germany Member Committee, World Energy Council

Shigeru (Sam) Muraki, Executive Advisor, Tokyo Gas; Vice Chair, Asia Pacific / South Asia, World Energy Council

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14.00 – 14.15

**Closing remarks from the Chair of the World Energy Council**

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14.15 – 15.00



**Networking break**

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✉ **CONTACT US**

For further **information**, please visit our [website](#)

For questions related to the **event programme and logistics**, please contact Cassie Sale and Catarina Veiga at [global.agenda@worldenergy.org](mailto:global.agenda@worldenergy.org)

For **Member Committee** engagement opportunities, please contact Cristina Morales at [morales@worldenergy.org](mailto:morales@worldenergy.org)

For **Partnership** engagement opportunities, please contact Clodhna O’Flaherty-Mouscadet at [OFlaherty@worldenergy.org](mailto:OFlaherty@worldenergy.org)