

# 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

#### **TOPICS**

- Navigating the post-pandemic future
- Policy pathfinding in the new normal
- Tracking leadership perspectives

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 to 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.

- The role of grids in the energy transition
- The role of hydrogen as a clean energy vector
- Building resilience amid disruption
- Innovation ecosystems masterclass









**SIDE EVENTS & MUCH MORE!** 

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



# **Programme**

WEDNESDAY, 7 OCTOBER

DAY 1

08.00 - 09.00



#### (A) 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?

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.



A Networking Break

12.30 - 13.00





#### 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?







#### 15.00 - 16.00 Tracking leadership perspectives

What new energy leadership questions are emerging from the broad and fast shifting energy transition landscape? Informed by the Council's annual World Energy Issues Monitor 2020 based on the views of more than 3,000 senior government officials and business leaders - this session will explore what is keeping energy industry leaders awake at night and dig deeper into the emerging nexus of social issues that have emerged, particularly in this time of crisis.

- What issues are energy leaders paying most attention to?
- How might behavioural change policies reshape energy transition pathways?
- How can energy firms and societies look beyond single issues and address connected challenges and risks?

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.



#### 🕰 Networking Break

#### THURSDAY, 8 OCTOBER



07.00 - 08.00



#### Balancing the energy trilemma in Asia & the Pacific

A discussion brought to you from the World Energy Council's Asia & the Pacific community to explore the bottlenecks and solutions for the region in achieving a balanced energy trilemma.



## 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?





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?



#### 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.

10.15 - 10.45



## パン Networking Break

#### 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



#### වීව One-on-one interview







#### Building resilience amid disruption

The impact of Covid-19 on the energy sector has been far reaching and extensive, exposing new vulnerabilities. Energy systems need to deliver reliable supplies and services to an increasing diversity of users and their different energy needs and be resilient to multiple emerging and systemic risks, disruptions and shocks - whether financial, environmental, technological and cyber or societal in origin. This crisis highlights the need to address whole energy system resilience, extending to people and supply chains, including blended infrastructures (physical and digital assets) and ensuring reliable energy flows in the face of risk.

- · How might energy systems be designed, priced and managed for dynamic resilience to cope with a range of systemic risks?
- What role can new market designs play in enhancing energy security and resilience?
- Who will take the lead in addressing the energy-cyber-health security nexus?
- What is the difference between 'soft' and 'hard' systems resilience?

15.00 – 16.00



#### Report 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?

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.



Retworking Break



FRIDAY, 9 OCTOBER

DAY 3

08.00 - 08.30



දිලි One-on-one interview

08.30 - 08:45

Address from the World Energy Council Secretary General



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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?

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.





#### 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?

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

14.15 – 15.00



Networking Break

# Speaker highlights 🗐

Paddy Padmanathan, President & CEO (ACWA Power); Richard Lancaster, CEO (CLP Power Hong Kong); Jean-Bernard Lévy, Chairman & CEO (EDF); Mike Howard, CEO (EPRI); Gavin Rennie, Global Energy Leader (EY); Alan Finkel, Chief Scientist (Government of Australia); HE Francisco Javier López, Vice minister (Government of Chile); HE Kornelia Shilunga, Deputy Minister (Government of Namibia); HE Sale Mamman, Minister (Government of Nigeria); HE Alexander Novak, Minister (Government of Russian Federation); Leena Srivastava, Deputy Director General for Science (IIASA); Leonhard Birnbaum, CEO (Innogy); Emmanouil Kakaras, Senior Vice President (Mitsubishi Hitachi Europe); Tatiana Mitrova, Director (Moscow School of Management); Gurdeep Singh, Chairman & Managing Director (NTPC Ltd); François Austin, Partner (Oliver Wyman); Jeroen van Hoof, Global Energy Leader (PwC); Kirill Komarov, Deputy Director General (Rosatom); Pavel Livinsky, CEO (Rosseti); Christian Bruch, CEO (Siemen Energy); Shigeru Muraki, Executive Advisor (Tokyo Gas)

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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 For Member Committee engagement opportunities, please contact Cristina Morales at morales@worldenergy.org

For Partnership engagement opportunities, please contact Cliodhna O'Flaherty-Mouscadet at OFlaherty@worldenergy.org