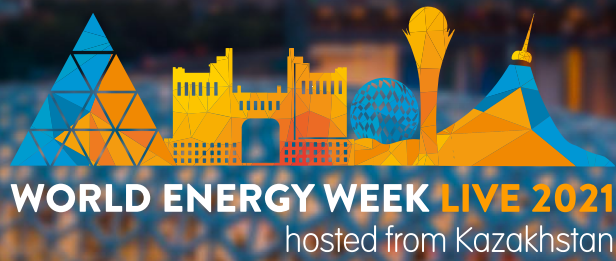




WORLD ENERGY COUNCIL



WORLD ENERGY WEEK LIVE 2021
hosted from Kazakhstan

5-7 OCTOBER 2021

WORLD ENERGY COUNCIL



World Energy Week LIVE 2021 at a glance

ENERGY FOR BETTER LIVES

Under the theme of Energy for Better Lives, this year's World Energy Week was an exciting and energising 3-day digital event hosted by the Ministry of Energy of Kazakhstan with the support of KAZENERGY Association, the Kazakhstan Member Committee of the World Energy Council.

From the heart of Eurasia and Central Asia regions, World Energy Week LIVE convened the Council's Members and the wider global energy+ community to engage in a conversation driven by the Council's Vision 2025 to humanise the energy transition agenda in an era of energy for people and planet.

Key takeaways

The energy system of 2030 is emerging in turbulent times of transition

The experience of new energy crisis and context of uncertainty highlights the need for **resilience which now extends to people and supply chains**. A **generative shift** is called for - from fix the energy machine to grow clean and just energy societies ecosystems. Energy technology transition always involves societal disruption and transformation.

Our Humanising Energy agenda is welcomed by others in supporting the joined-up approach needed to progress technological transition with societal transformation at increasing speed and in the same direction.

The emergence of a societal agenda

The world is at an **energy transition tipping point**. A new context of greater ambitions, unpredictable uncertainties and demand for justice(s) has emerged. Energy fundamentals are back on the table - including security, access and affordability - in the driven to climate neutrality.

Societies are unprepared for energy transition and the real choices involved. **Our World Energy Community is creating realistic awareness about the depth of change that is needed**. Through the emotive power of stories about energy and communities and individuals, we learned about the complexity and challenge of societal transformation in energy transitions.

It is **important to evolve and extend the Council's World Energy Trilemma work to clarify real choices and policy trade-offs** in energy security, affordability and equity, and sustainable development at national, provincial and city/community-level.

Exchanges have **reinforced our commitment to a global step-change in energy literacy** as an essential enabler for involving more people and communities in the discussion of choices and in learning how to build forward together across all levels of society.

Demand-driven solutions and open data platforms offer new ways to activate and mobilise customers, citizens, and SMEs. It is to avoid the risk of 'cop-out' by the silent majority after COP26; **innovation in business models** is essential for engaging the customers.

Achieving resilience to future shocks involves imagination and active anticipation. The cost of removal of emissions from the hydrocarbon value chain has impacts on societies, and the public sector, private sector, and civil society need to come together to understand what resilience in the energy transition means.

Collaboration across all levels of society is needed and esp. to **include the missing voices** of the bottom third, vulnerable communities and workers. **'Fierce partnerships' are essential**: we cannot solve connected challenges alone and must collaborate to better think about and make to energy systems in coming decades.

An enormity of change is required to enable the societal shift our communities need. Global energy transition can't be achieved all at one – it will take decades. As the world energy community, we are unique in **building effective bridges** between the diverse energy situations, needs and interests of connected energy societies in about 100 countries. This is essential to **overcome extreme polarisation**, avoid the **risk of stranded regions and communities** and to sustain collaborative actions over decades. **Political will must be sustained across election cycles** to deliver successful transition. The next big thing in energy is not a global technology moon-shot but **hundreds of thousands of small steps** involving people at all levels of connected and diverse energy societies, at various speeds.

Transition and transformation will require broader perspectives to be considered

Today's **'hot topic' - a global clean hydrogen vector** - is seen by all as an integral part of a more flexible equation in building more sustainable, clean and just and resilient energy societies. **Transport costs remain a big unknown** and development of a global hydrogen market/value chain is being **impeded by regional interests and technology prescription in policy**.

Navigating the energy transition will demand more metals and minerals as modern life requires access to them and **there is a mismatch between the climate ambitions and the access to minerals required for global energy transition**.

▶ Headline speakers



H.E. Magzum Mirzagaliyev, Minister of Energy of the Republic of Kazakhstan



Angela Wilkinson, Secretary General & CEO, World Energy Council



Hon. Kornelia Shilunga, Deputy Minister of Mines and Energy, Government of Namibia



Almassadam Satkaliyev, Chief Executive Officer, Samruk-Kazyna



Gina Domanig, Managing Partner, Emerald Technology Ventures



Bob Dudley, Former Group Chief Executive, Officer, BP



Clay Koplin, Mayor of Cordova, Alaska



Faith Chege, Portfolio Coordinator, EEP Africa



Gabriel Argüello, Vice Minister for Electricity and Renewable Energy, Ecuador



Paddy Padmanathan, Chief Executive Officer, ACWA Power



Hon. Dr. Megan Woods, Minister of Energy and Resources, Government of New Zealand



H.E. Juan Carlos Jobet, Minister of Energy, Government of Chile



Ashley Hovart, Vice President, Head of E-Mobility, Schneider Electric



Kim Yin Wong, Group President & Chief Executive Officer, Sembcorp



Maria van der Hoeven, Senior Adviser to Secretary General for Literacy, World Energy Council



Rafael Cayuela, Chief Economist, The Dow Chemical company



Sungat Yessimkhanov, Chairman of the Management Board, Samruk-Energy



Maria Suner-Fleming, Chief Executive Officer of the Swedish Association of Mines, Mineral and Metal Producers



Mohit Bhargava, CEO, NTPC Renewable Energy Ltd (NREL)



Ahlem Friga-Noy, Country Chair in Kazakhstan, TotalEnergies & Managing Director, TotalEnergies EP Kazakhstan

▶ Headline numbers

ATTENDANCE

2 600
registrants

1 205
attendees

18
GOVERNMENT
officials

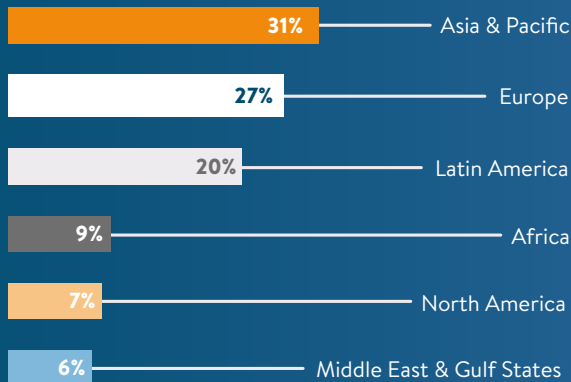
105
COUNTRIES
represented

TRUE >>>>>
GLOBAL
event

18
Head of
STATE

11 **888**
MINISTERS &
DEPUTY
Ministers

ATTENDEES BY REGION



TOP 10 COUNTRIES

- 1 Kazakhstan
- 2 United Kingdom
- 2 Northern Ireland
- 3 Argentina
- 4 Ecuador
- 5 Mexico
- 6 Chile
- 7 Colombia
- 8 India
- 9 Japan
- 10 Germany
- 10 Saudi Arabia

SATISFACTION LEVEL

8.9/10 average
ATTENDEE
RATING

- ✓ OVERALL EXPERIENCE **VERY GOOD**
- ✓ QUALITY OF THE CONTENT PROGRAMME **VERY GOOD**
- ✓ PLATFORM AND LOOK & FEEL **EXCELLENT**
- ✓ RELEVANCE OF THE THEME **VERY RELEVANT**

ENGAGEMENT

6h 25 min AVERAGE TIME SPENT
participating in the event

580 COMMENTS IN
the chat box

361 NETWORKING
area visitors

CONTENT

108 TOP level
speakers

29 sessions

23 + HOURS
of broadcast

9 GLOBAL
PLENARIES

5 PLENARY SESSIONS
from Kazakhstan

6 REGIONAL
SESSIONS

6 SPECIAL
ADDRESSES

3 WRAP
-UPS

SOCIAL MEDIA



2 220 **177 000**

170



9 738 **142 222** **1 788**

PRODUCTION

176 VIDEOS & GRAPHICS PRODUCED FOR
platform & streaming

9 HUMANISING
ENERGY FILMS

11 sponsor
PROMO
VIDEOS

11 GRAPHIC
recordings

51 VIDEOS
PRODUCED
for experience
and delivery

Testimonials

As Honorary President of the Chilean Member Committee, I am honoured to have participated the World Energy Week, a great annual gathering hosted this year by Kazakhstan. I feel excited and mobilised by the purpose that brings us together from across the globe. Humanising energy transition and promoting better life for people must be our main premise in a sector that is decisive for us and future generations.



HIS EXCELLENCY JUAN CARLOS JOBET

Minister of Energy, Government of Chile

What an inspiring experience to meet some of the innovators who are doing so much to re-imagine the future of energy! In these challenging times, humanizing energy offers hope and opportunity for a better life for most people while at the same time helping to insure a healthier future for the earth.



BETTY SUE FLOWERS

Writer, Editor and International Business Consultant

The week as a whole was a moment that brought a wide variety of different stakeholders together to help shape the future and challenge each other to create an even better future. I was particularly impressed by the calibre of the speakers.



THADDEUS ANIM-SOMUAH

Engineering Manager Projects, Croda

It was a pleasure to join and contribute. "Humanising Energy" is a great rallying call. And you know that hydrogen resonates strongly with East Asian economies, being the most prospective way of matching energy supply with demand centers, other than perhaps direct transmission through international power networks. I look forward to hearing more at the 25th World Energy Congress.



KIM YIN WONG

Group President & Chief Executive Officer, Sembcorp

As a Future Energy Leader, World Energy Week 2021 gave me a unique platform to share my views on how the energy customers of future would look like and what would be required from the governments and businesses to meet the changing needs of the future customers. It was equally enriching to learn from the global experience and insights of my fellow FELs through the interactive discussions. An experience of a lifetime indeed!



PRACHI GUPTA

Consultant, NITI Aayog, Government of India

On Social Media

LINKEDIN

Ashley Horvat • 3rd+
VP Head of eMobility, North America
2w •

This was such a fantastic conversation with some of my favorite longtime EV friends **Mark Duvall** **Michael Berube** **Britta Gross** **Rodolfo Guzman** ! Thanks for hosting the talk live today **World Energy Council**

World Energy Council
49,207 followers
2w •

Tune in LIVE to "Electrifying Transport: Demand and Challenges Regional perspective North America" at #WorldEnergyWeek LIVE 2021:
<https://lnkd.in/dHAAKDFU>

WORLD ENERGY COUNCIL | **WORLD ENERGY WEEK LIVE 2021**
hosted from Kazakhstan

**Regional Perspective North America:
Turning points in Global e-mobility Transition**
Tuesday 5 October - 15:30pm BST

Mark Duvall - EPRI
Ashley Horvat - Schneider Electric
Britta Gross - Rocky Mountain Institute
Rodolfo Guzman - Arthur D. Little
Michael Berube - Department of Energy, United States

ENERGY FOR BETTER LIVES | #worldenergyweek | NUR-SULTAN, KAZAKHSTAN

Keshan Samarasinghe • 2nd
Future Energy Leader at World Energy Council
2w •

It was an honour to take part as a speaker representing #FutureEnergyLeaders at the #WorldEnergyWeek organised by World Energy Council. My first opportunity to present in an International forum and it was a very fulfilling experience. Thank you to my co-presenters **Mateusz**, **Prachi**, **Tatenda** for the valuable insights shared and also **Thaddeus** for excellent moderation. **Sandra** and **Michelle**, many thanks for your support.

#energytransition #energysecurity #innovation #privatesector #collaboration #future

within regional grids. If decision makers don't provide framework, fossil fuels will fill the gap. Private sector has a role in innovation & business models." - Keshan at #WorldEnergyWeek.

WORLD ENERGY COUNCIL | **WORLD ENERGY WEEK LIVE 2021**
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**Leadership: The certainty of uncertainty
Global plenary**
Tuesday 5 October - 08:00pm BST

Dr Angela Wilkinson - World Energy Council
Hon. Dr. Megan Woods - Minister of Energy and Resources, Smbcorp New Zealand
Kim Yin Wong -
Eithne Treanor - World Energy Council
Ahlem Friga-Noy - TotalEnergies

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Keshan Samarasinghe
Clean Energy Technology Specialist
(Consultant), Asian Development Bank

World Energy Council
48,753 followers
1w •

We're LIVE NOW with DAY 1 of #WorldEnergyWeek LIVE 2021! Join us:
<https://lnkd.in/dHAAKDFU>

with **Angela Wilkinson**

44 • 1 comment

Eithne Treanor • 2nd
Conference Moderator | Master of Ceremonies (MC) | Speaker | Corporate Br...
3w •

The Certainty of Uncertainty - I'll moderate the Opening Leaders Session Tuesday 5th Oct #WorldEnergyWeek LIVE 2021: <https://lnkd.in/dHAAKDFU> 0800 UK, 1100 UAE Register for free.
Join us to get the latest insights on the energy transition, future fuels, impact on humanity as well as hydrogen, digitalisation and their impact on local communities undergoing #energytransitions #humanisingenergy World Energy Council

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ENERGY FOR BETTER LIVES | #worldenergyweek | NUR-SULTAN, KAZAKHSTAN

35 • 1 comment

On Social Media

TWITTER

EPRI @EPRInews · Oct 6

The @WECouncil World Energy Leaders' Summit featured a session on "Getting Real with Hydrogen" moderated by @EPRInews VP @Neva_M_Espinoza & CEO Emeritus Michael Howard

The session was part of #WorldEnergyWeek LIVE 2021 & featured more than 40 participants #LowCarbonLRI



3 replies 6 likes

Thaddeus Anim-Somuah @TeddyThad · Oct 6

What a day! Incredible honour to moderate the @WECouncil Customers of the Future Session at #WorldEnergyWeek and to be interviewed by the amazing @JD_TheGlobalist (former @CNN anchor)

#HumanisingEnergy #EnergyTransition @CrodaPlc



POWERPOOR @POWERPOOR_EU · Oct 7

@POWERPOOR_EU project at the @WECouncil

The coordinator of the project highlighted the importance of engaging citizens in achieving the just transition, presenting the POWERPOOR approach

@h_doukas

#EnergyTransition #EnergyPoverty #ActiveCitizens

World Energy Council @WECouncil · Oct 7

"This means that we have billions of people that need to be included and play their role." - Haris Doukas at "Active energy citizens: At the heart of the energy transition" European regional perspective at #WorldEnergyWeek LIVE 2021: bit.ly/WEWregistration (1/2)

Show this thread



#HumanisingEnergy

World Energy Council @WECouncil · Oct 6

"At its essence, energy is about light, heat & mobility - at scale.

Some parts of the world are struggling to put the lights on... #energy is about jobs and economic growth." - Bob Dudley, #WorldEnergyWeek 2021

bit.ly/WEWregistration



9 likes

Arthur Hanna @arthurhanna · Oct 5

Lights on. Camera ready. Coffee drunk. #worldenergyweek is Live! 📺☕️ Great first session titled "the certainty of uncertainty" set the scene for the theme of LIVE. Energy for better lives. @WECouncil



2 replies 10 likes

OGCI @OGCInews · Oct 6

It's your last chance to register and tune-in to OGCI Chairman, Bob Dudley's panel on "Energy for Humanity: Achieving Abundance in a World of Scarcity" at @WECouncil World Energy Week.

Register for free before the 02:15PM BST start here: page-builder.hopin.com/events/world-e...



ENERGY FOR BETTER LIVES #WorldEnergyWeek NUR-SULTAN, KAZAKHSTAN

Recursos y Energía EC @RecNaturalesEC · Oct 7

Viceministro de Electricidad, @gargueller: "En esta ocasión, se presentará un análisis sobre la descarbonización y sus implicaciones, desde el sector minero, petrolero e industria y como la descarbonización impacta las vidas de las personas".

#DesarrolloEnergéticoResponsable



27 replies 15 likes

▶ WORLD ENERGY WEEK LIVE ON DEMAND

World Energy Week LIVE 2021 is now available to watch on demand, please **click on each session** to view the recordings.



LEADERSHIP: THE CERTAINTY OF UNCERTAINTY ▶



THE ENERGY INDUSTRY IN CENTRAL ASIA: NEW NATIONAL INITIATIVES AND PARTNERSHIPS ▶



CIRCULAR CARBON ECONOMY IN THE MIDDLE EAST ▶



ENERGY TRANSITION AND COMPETITION FOR RESOURCES IN THE REGION ▶



HUMANISING ENERGY: MEETING THE ENABLERS OF THE TRANSITION ▶



REGIONAL PERSPECTIVE: ASIA PACIFIC - FUTURE FUELS ▶



CARBON NEUTRALITY AND ENERGY FOR BETTER LIVES: NEW OPPORTUNITIES FOR KAZAKHSTAN ▶



HYDROGEN: AVOIDING THE TROUBLE OF THE BUBBLE ▶



ENERGY FOR HUMANITY: ACHIEVING ABUNDANCE IN A WORLD OF SCARCITY ▶



DECARBONISATION - THE LATIN AMERICA REALITY ▶



CAPACITY BUILDING FOR A NET-ZERO AFRICA ▶



ACTIVE ENERGY CITIZENS: AT THE HEART OF THE ENERGY TRANSITION ▶

+ click here for more

For any enquiries and engagement opportunities, please contact the Global Agenda team at global.agenda@worldenergy.org.