



**WORLD
ENERGY
COUNCIL** | **25th
CONGRESS**
St. Petersburg, 24-27 October, 2022

25th World Energy Congress

24-27 October 2022
St. Petersburg, Russia

ENERGY FOR HUMANITY

There has never been a more important time for a bigger story of energy and for more inclusive, collaborative and connected conversations. At this pivotal moment in energy for billions of better lives and a healthy planet, how will we learn from the past and anticipate new and different futures to secure the benefits of more sustainable energy and climate neutrality for everyone?

For 100 years, the World Energy Council's triennial World Energy Congress has convened the cooperative power of the world energy community to turn bold vision into action. This most prestigious and influential global event, hosted at the highest political level, welcomes a global community of energy leaders and visionaries, professionals and scholars, pioneers and activists, builders and disruptors.

At the 25th World Energy Congress we will explore energy as more than just a sector and why Energy for Humanity is at the heart of building and transforming energy systems across the world. Join us for unparalleled opportunities to engage in leadership dialogue and innovative thinking with peers as we look to the next 100 years of Energy for Humanity.

250+
STAR SPEAKERS

70+
MINISTERS

150+
COUNTRIES
REPRESENTED

70+
ENGAGING & IMMERSIVE
CONTENT SESSIONS

Programme Highlights



HOW WILL THE 'NEXT' NORMAL IMPACT GLOBAL ENERGY TRANSITION?

The World Energy Council has a unique 100-year heritage in building a world energy community movement through different energy transition eras. Together we have learned that energy technology transition always involves societal disruption and transformation. At this pivotal moment in energy for billions of better lives and a healthy planet, how will the post-pandemic normal shape energy transition and transformation? From where will energy transition leadership emerge, and how can we learn from the past and anticipate the new and different futures to secure the next 100 years of energy for humanity?



WHY IS HUMANISING ENERGY AN IMPERATIVE IN THIS DECADE OF DELIVERY?

Humanity is at the centre of the global energy transition challenge. Technology – and financial – innovation are essential but will not be enough to secure the benefits of more sustainable energy and climate neutrality for everyone. Energy transition starts with people and their needs and uses. The next big thing in energy is hundreds of thousands of smaller steps involving people at all levels of connected and diverse energy societies building forward together. The role of people and communities, and new human-centric stories of creativity and collaboration are key in progressing better energy futures.



HOW MIGHT TIPPING POINTS AND THE RISKS OF TRANSITION CRISES ACCELERATE OR DERAIL PROGRESS TO 2040?

Diversity in energy systems is increasing in the broadest sense of situations and experiences, people and skills, technologies and geographies, needs and uses. The geopolitics of oil and gas have broadened to include technology, data and non-energy resources material to renewables at scale. Energy fundamentals, including security and affordability, are back on the table as new energy crises erupt in different countries. How might more diverse and connected energy societies better prepare for new constellations of disruptions, including gamechanger technologies (AI and quantum computing, nano materials, clean/synthetic molecules, smart integrated grids), climate change adaptation, business model innovation and shifting social dynamics?



PREPARING FOR THE CUSTOMER-CENTRIC ENERGY FUTURE – WHAT ARE THE IMPLICATIONS FOR MARKET AND POLICY DESIGN?

New ultra-local and global business models are emerging. Value creation in energy systems is moving closer to the end-user. New global co-operative and social justice movements have emerged and there are growing expectations of the 'democratisation' of energy. What will be the role of active energy citizens, digitally empowered customers, prosumers, new energy start-ups and incumbents? How will more diverse energy stakeholders cooperate and coordinate effective actions? What are the gaps in implementation, adaptation and imagination that need to be bridged, and by whom?



WHICH NEW LEADERSHIP MINDSETS AND MODELS ARE IMPACTING ENERGY DEVELOPMENTS?

A new leadership mindset has emerged – a shift from supply-centric to demand-driven solutions and customer-centric energy systems design. Transformational opportunities in global energy transition include new generative development and co-ownership models and more integrated policies. How are different leadership mindsets and new human and economic development models impacting energy developments worldwide? What new leadership capabilities, skills and behaviours are integral to the inclusive and sustainable development of connected energy societies?



HOW DO REGIONAL REALITIES DIFFER AND WHAT CAN WE LEARN FROM THIS?

There is no one-size-fits-all solution to achieving more sustainable energy for billions of better lives and climate neutrality, but there is an opportunity to engage with the increasing regional diversity in energy as a source of learning and innovation. As global energy transition progresses along multiple pathways, how are countries, companies, cities and communities learning with and from each other?



WHAT NEW MODELS OF FINANCING AND INVESTMENT IN ENERGY ARE EMERGING AND WHY?

The urgency of net zero ambitions, ESG investor activism and a green fiscal stimulus inflation risk are playing out in a new post-pandemic context of affordability and justice. Investment in infrastructure planning and new capabilities needs to be extended to achieve a step change in energy literacy, workforce transition and skills diversification. How can more connected and diverse energy societies better anticipate and fairly manage the full costs of global energy transition, and how will investor choices meet demand for meso-scale investment and address the risks of stranded assets and communities?

Topics

(Update to the programme of the 25th World Energy Congress will be released in early 2022)



- Recovery, resilience and renewal: Building forward together
- (Re)imagining energy society/ies: New context, new players
- New frontiers - Energy for People, Planet and Space



- The 'power couples': Energy transition + digital transformation
- New energy ecosystems: orchestration and scalability
- Navigating new energy maps



- Leadership: The certainty of uncertainty
- Navigating the new geo-politics and socio-politics of energy
- Cities to the rescue: Transforming and performing



- Covering the increasing diverse energy transition realities from across the world's regions, cities and communities.



- World energy communities' movement: Enablers of energy transition
- New energy behaviours
- Decade of delivery – Mobilising the middle and creating a 'road builders' movement



- Non-toxic molecules revolution
- Policy designs for clean and just energy transition
- Hydrogen economy: Managing the 'how to' of a global clean energy vector



- Who pays? The full costs to society and pain points of whole energy transition
- Investment dynamics: Getting serious about the energy trilemma in rebalancing ESG
- Managing the risks of faster stranding: Assets, jobs and communities

For further information about the 25th World Energy Congress programme, please contact the World Energy Council at global.agenda@worldenergy.org