



Leonardo Royal Hotel London Tower Bridge

POST SHOW REPORT

Energy Landscape UK 2024

"Uniting for a Sustainable UK Energy Future: Powering Tomorrow Together"

10- 11 Sept 2024

Thank You from the Managing Directors

Dear Esteemed Participants, Sponsors, and Stakeholders,

On behalf of the Energy Landscape UK 2024 (ELUK2024) Organising Team, we extend our heartfelt thanks for your participation in this year's conference. We are thrilled to report that ELUK2024 was a resounding success, marking a pivotal moment in the UK's journey towards a decarbonised and sustainable energy future.

This year's conference saw the successful launch of Energy Landscape UK Conference, covering all aspects of the nation's ambition towards net zero. With 48 key industry leaders on various panels, we engaged in robust discussions on critical themes such as the UK energy roadmap, manifestos, electricity, renewables, oil & gas, nuclear, hydrogen, EVs, global collaboration, public-private investment synergies, and the next steps following COP28. The insights shared were not only timely, given the newly elected government, but also essential for steering the UK towards its net zero goals.

ELUK2024 has reinforced its position as a vital platform for discussing the challenges and opportunities ahead in achieving a sustainable, clean energy future. It is clear that industry collaboration, investment and skill upgrades will be crucial in driving the necessary energy transitions.

Looking ahead, we are excited to announce that this will be an annual event, continuing to evaluate the UK's progress towards net zero. The 2025 conference promises to be even bigger and better, with an expanded agenda and larger exhibition space, drawing in a broader delegation from key industry stakeholders who are essential to driving the UK's energy transition.

Thank you once again for your commitment to shaping the future of energy in the UK. We look forward to welcoming you to next year's event as we continue to power tomorrow together.

Warm regards, Rekha Kaur & Andrew Beales Managing Directors, Energise Landscape Ltd.



Andrew Beales Managing Director



Rekha Kaur Managing Director



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EVENT HIGHLIGHTS ELUK 2024 Participants

187 Attendees	48 EXPERT PANELISTS
13 SPONSORS & PARTNERS	8,043 WEBSITE VISITORS

COMPANIES REPRESENTED

AECOM, Allen& York, Bank of China (UK) Ltd, Bechtel, Bloomberg, Braganini, British HydroperAssociation, Camden Council, C3 Communications, Carbon Capture & Storage Association, Carbon Trust, Cogent Skills, Comanos, Confederation of British Industry (CBI), Charge UK, Connected Kerb, Conrad Energy, Decision Analysis Services Ltd, Department for Energy Security and Net Zero, Department of Business & Trade, Destination Nuclear, Developing Experts, Digital Reef, Ecotricity & Green Britain Group, EDF, Eneos, Energise Landscape Ltd, Equinor, ERM, EVA England, F&H Power Consultants Limited, First Light Fusion, Gallagher, Grant Thornton UK LLP, Haringey Council, House of Commons, House of Lords, Howden, Innovate UK, Institution of Mechanical Engineers, ITS Technologies, Jacobs, Jera Nex, JLL Technologies, KBR, Kent, Kerry London, KPMG, Last Energy, LRQA Group, Manpower, Muhammad bin Saud University, McDermott, Natcap Research, National Grid, Newcleo, Northern Gas Networks, Nuclear AMRC, Nuclear Industry Association (NIA), Nuclear Innovation and Research Office (NIRO), Office of Gas and Electricity Markets, Ofgem, PA Consulting, Palace Yard, Power2X, Radiant Nuclear Training Consultancy, REA, The Association for Renewable Energy and Clean Technology, Rigzone, Safer Cleaner Planet, Shell, Simply BD, Slaughter & May, Sothwark Council, Space Solar, SSE Energy Solutions, SSE Plc, Subsea7, Sumitomo, TEC, The Association for Decentralised Energy, Transition2Zero, UK Atomic Energy Authority, UK Power Networks, UK Research and Innovation, University of Arts London, Urenco Capenhurst, Urenco, ViRenewables, Women in Nuclear, WiN, X-Energy



CONFERENCE OVERVIEW

The **Energy Landscape UK 2024** conference, held over two highly impactful days, convened 48 industry leaders, government officials, and stakeholders to explore the UK's path to a net-zero future. As the first major energy conference following the recent government election, this event provided a timely and critical platform to discuss the opportunities, challenges, and strategic actions needed to achieve a sustainable and decarbonised energy landscape.

The conference covered a comprehensive range of topics essential to the UK's energy transition, including the national energy roadmap, the future of electricity, renewables, oil & gas, nuclear power, hydrogen, and electric vehicles (EVs), as well as the necessary steps post-COP28. A strong emphasis was placed on the importance of collaboration between public and private sectors, and the critical role of skills development and investment in enabling the energy transition. The general consensus was ultimately the need to make the UK attractive again.

Key Takeaways from the Conference:

- **Nuclear Energy:** Discussions highlighted the need for investment in Small Modular Reactors (SMRs) and next-generation nuclear technologies, alongside securing private investments and developing robust plans for nuclear waste management and disposal.
- **Oil & Gas:** The focus was on advancing carbon capture and storage (CCS) technology, supporting workforce transitions, and creating a clear roadmap for gradually phasing out oil and gas production while maintaining energy security.
- **Renewables:** Ambitious targets for expanding renewable energy capacity were discussed, with particular attention on the need to invest in grid infrastructure and promote community-based renewable energy projects to speed up the green transition.
- **Hydrogen:** Delegates explored the potential of green hydrogen production, the establishment of hydrogen hubs, and the importance of international collaboration for technology exchange and scaling hydrogen use in industry.
- **Electricity:** Strengthening interconnectivity with European neighbors and enhancing crossborder grid protocols were identified as vital for improving energy security and facilitating renewable energy sharing.

Skills for Energy Transition:

A major theme throughout the conference was the crucial role of skills development in driving the energy transition. Discussions centered on addressing the skills gap, which remains a significant barrier to achieving net-zero goals. Key points included:

• Addressing the Skills Gap: The energy sector faces a pressing need for skilled workers, particularly in emerging technologies like renewable energy, hydrogen, nuclear and CCS. There was a strong consensus on the need to invest in retraining the existing workforce and attracting new talent to meet the demands of a rapidly evolving energy landscape.

- **Building Skills from the Ground Up:** Participants emphasised the importance of integrating energy transition topics into the educational system, starting from schools through to higher education. By fostering an early interest in STEM (Science, Technology, Engineering, and Mathematics) subjects, the UK can build a pipeline of future talent equipped to lead in the energy sector.
- **Collaboration is Key:** The conference underscored that the energy transition cannot be achieved in isolation. Public and private sector collaboration is essential to bridge the skills gap, with partnerships between industry, government, and educational institutions being pivotal. There were calls for more apprenticeships, vocational training programs, and industry-led initiatives that provide practical experience and training aligned with the needs of the energy sector.

Insights and Impacts:

The conference provided a thorough review of the current energy landscape in the UK, touching on its heavy reliance on fossil fuels and vulnerabilities to global price shocks. Attendees gained insights into how geopolitical events, such as the Ukraine-Russia conflict, are influencing energy prices and the broader implications for the UK's energy strategies.

In evaluating government policies, including the British Energy Security Strategy and renewable energy initiatives, the event highlighted areas for improvement, particularly in sectors like onshore wind and tidal power. The discussions also revealed the critical need for continued investment in skills development and collaboration to ensure a successful energy transition.

Next Steps and Recommendations:

As the UK advances towards its net-zero goals, the conference highlighted the importance of sustained public-private collaboration, consistent cross-party energy policies, and ongoing investment in both emerging and established energy technologies. The newly elected government's role in facilitating these efforts, particularly in supporting skills development and fostering collaboration, will be crucial.

Conclusion:

The **Energy Landscape UK 2024** conference effectively illuminated the complexities and opportunities inherent in the UK's pursuit of a net-zero future. By facilitating deep dialogue among key stakeholders, the event not only provided actionable insights but also reinforced the critical importance of skills development and collaboration in achieving the UK's energy ambitions.

This post-event report serves as a valuable resource for all participants and stakeholders, offering a clear understanding of the outcomes and strategic directions necessary to navigate the evolving energy landscape. The insights and connections made during the conference will be instrumental in shaping the future of the UK's energy sector, ensuring that the country remains at the forefront of the global transition to a sustainable and decarbonised energy future.

PANEL HIGHLIGHTS Panel 1 Overview



Panel 1: The Energy Roadmap and Manifestos: Shaping the UK's Energy Future

The opening panel of the **Energy Landscape UK 2024** conference, moderated by Saranne Postans, Director at C3 Communications Ltd, brought together leading voices from the energy sector to discuss the UK's strategic direction toward achieving net zero. The panel featured Trevor Hutchings, Chief Executive at REA (The Association for Renewable Energy and Clean Technology), James Court, CEO at EVA England, Andrew Lever, Director of Energy Transition at Carbon Trust, and Natascha Engel, CEO at Palace Yard.

The discussion highlighted the urgent need for a clear and actionable roadmap to transition the UK to a net-zero future. Panelists stressed the significant impact of the Ukraine conflict on energy security and underscored the importance of robust government policies in facilitating this transition. The conversation centered on the critical role of renewable energy, with hydrogen projects and publicprivate partnerships like Nissan's serving as prime examples of successful collaboration.

- 1. **Energy Security and Net Zero:** The panel began by addressing the public's and policymakers' misconceptions about net zero, emphasising the urgency of educating on this topic to prevent energy insecurity. The need for a detailed transition roadmap was highlighted as essential for aligning public understanding with national goals.
- Climate Change and Renewable Energy: The discussion reinforced the necessity of moving away from fossil fuels toward renewable energy, particularly in light of geopolitical tensions. Government policies were identified as crucial in driving this shift, and panelists advocated for increased community engagement and education to build support for renewable energy projects.
- 3. **Investment and Skills:** Strategic investment in net-zero initiatives was a major focus, with panelists calling for an environment that encourages private sector participation through incentives and supportive regulatory frameworks. The conversation also touched on the

critical skills gap in the energy sector, emphasising the need for educational reforms that prepare the workforce for the demands of a decarbonised economy.

- 4. Education and Apprenticeships: The panelists discussed the importance of overhauling the education system to better align with the future needs of the energy sector. They highlighted initiatives like Sarah Mintey's digital platform, which aims to tailor education to local industry demands, as a model for closing the skills gap. The need for early STEM education and apprenticeships was also stressed as essential for building a pipeline of skilled workers ready to contribute to the energy transition.
- 5. **Community and Innovation:** The establishment of GB Energy was discussed as a pivotal development in the UK's energy strategy. The panel emphasised the importance of local ownership and community involvement in energy projects, alongside the need for GB Energy to lead in risk management and innovation within the supply chain.
- 6. Carbon Capture and Storage (CCS): The panel concluded with a discussion on the role of CCS in reducing emissions, highlighting its importance in achieving net zero. While some concerns were raised about CCS potentially perpetuating fossil fuel use, the consensus was that a diverse and pragmatic approach to energy solutions, including CCS, is necessary to meet global climate goals.

Conclusion:

The panel underscored that the UK's transition to a net-zero future hinges on a combination of strategic investment, government support, and a strong focus on skills development. Collaborative efforts across the public and private sectors, alongside educational reforms, are crucial in navigating the challenges and opportunities of the energy transition. The discussion provided valuable insights into the multifaceted approach needed to secure the UK's energy future, with a clear emphasis on the importance of innovation, education, and pragmatic energy solutions.

Panel 2 Overview



Panel 2: Powering the Future - The UK's Evolving Electricity Landscape

In the second panel of the **Energy Landscape UK 2024** conference, moderated by Adrian Del Maestro, VP Global Energy Advisory at AECOM, leading experts from the energy sector, including Asif Rehmanwala (CEO at Ecotricity & Green Britain Group), Sara Habib (Head of Future Price Controls at National Grid), Laura Glover (Energy Systems Lead at Carbon Trust), and Rachel Hassall (Head of Data and Analytics at SSE Plc), came together to discuss the transformative journey of the UK's electricity landscape.

Key Insights:

- Achieving a Clean Energy System by 2030: The panel underscored the ambitious goal of creating a fully clean energy system by 2030. Central to this discussion was the expansion of renewable energy sources, particularly offshore wind, and the enhancement of smart grids to support energy independence. However, challenges remain, particularly in regulatory reform, supply chain investment, and the urgent need for a skilled workforce to support these advancements.
- 2. **Decarbonising Heat:** A significant portion of the conversation focused on the decarbonisation of heat, with heat pumps and green gas identified as pivotal technologies. Panelists highlighted the necessity for clear and consistent energy policies to drive public acceptability and manage the associated energy costs. Solar panels were also noted for their potential to reduce domestic energy demand, reinforcing the importance of collaboration between industry and government to maximize the UK's renewable energy potential.
- 3. **Public Support and Energy Transition:** The discussion emphasised the critical role of public support in the energy transition. Panelists stressed that benefits such as lower energy bills and cleaner air must be clearly communicated to gain widespread acceptance. The evolving landscape of energy affordability, security, and decarbonisation was presented as a foundation for a sustainable future, with significant infrastructure investments and grid upgrades identified as essential components of this transition.
- 4. Education and Workforce Development: The panel highlighted the shortage of skilled workers as a major barrier to deploying technologies like solar panels and energy storage solutions. The importance of education, both in schools and within the broader community, was stressed as vital for equipping the future workforce with the necessary skills. Additionally, regulatory frameworks must be developed to support energy storage and optimise the use of renewable energy.

Conclusion:

The panelists collectively underscored that the UK's journey towards a clean energy future is both a monumental challenge and a significant opportunity. Achieving the 2030 clean energy target will require not only robust regulatory reforms and strategic investments but also a concerted effort to educate and engage the public. Building a skilled workforce and fostering industry-government collaboration are crucial steps toward realizing a sustainable and resilient energy system for the UK.

The insights shared in this discussion highlight the urgent need for coordinated action across all levels of society to ensure a successful energy transition.



Panel 3 Overview

Panel 3: Energising the Future - Renewables in Focus

In the third panel of the Energy Landscape UK 2024 conference, moderated by Adrian Del Maestro, VP Global Energy Advisory at AECOM, experts Tim Foster (Head of Energy Services at Conrad Energy), Kate Gilmartin (CEO at British Hydropower Association), Ben Hunt (VP Communications and Public Affairs at JERA Nex), and Lee Callaghan (Founder & CEO at ViRenewables) discussed the future of renewable energy in the UK, highlighting critical challenges, opportunities, and the strategic direction needed to ensure the country meets its energy transition goals.

- 1. Infrastructure and Investment Challenges: The panel began by emphasizing the importance of strategic infrastructure development for renewable energy. There was a strong focus on the UK's need to invest in durable infrastructure to support the energy transition. The panel highlighted the need to learn from previous projects to guide future development. However, securing investment remains a challenge, particularly in the face of global competition and policy uncertainty, such as the impact of the US Inflation Reduction Act.
- 2. Grid Access and Storage Solutions: Ben Hunt from JERA Nex highlighted the pressing issue of grid access and the need for advanced storage solutions to manage the intermittency of renewable energy sources like wind and tidal power. The discussion underscored the importance of developing robust infrastructure, particularly in the North Sea, to capture and deploy renewable energy effectively. There was a consensus that enhancing storage capacity is vital for decarbonisation and efficient energy use.
- 3. Policy Certainty and Investor Confidence: The conversation shifted to the critical need for policy certainty to attract and maintain investment in the UK's renewable energy sector. The lack of consistent energy policy and a stable regulatory environment was identified as a

significant barrier to long-term investment. The panelists advocated for stronger government support, particularly in the hydropower sector, and highlighted the success of the offshore wind sector as an example of what can be achieved with the right policies in place.

- 4. Cybersecurity and Critical Infrastructure: The panel also addressed the growing importance of cybersecurity in the energy sector. As renewable energy infrastructure becomes more interconnected and reliant on digital technologies, the risks associated with cyber threats increase. The discussion emphasised the need for robust cybersecurity measures to protect critical infrastructure and ensure the resilience of the energy system against geopolitical threats and other vulnerabilities.
- 5. Net Zero Ambition and Energy Transition: The panelists explored the UK's path to net zero, debating the future role of oil and gas amidst catastrophic climate events. There was a clear tension between the push for new drilling licenses and the country's net zero goals. The discussion also touched on the importance of carbon capture and storage (CCS) as a crucial technology for mitigating the impact of fossil fuels during the energy transition.

Conclusion:

The panel concluded that the UK's renewable energy future hinges on strategic infrastructure development, investment in storage solutions, and a stable policy environment. The energy transition will require significant collaboration between government and industry, particularly in addressing challenges related to grid access, storage, and cybersecurity. As the UK strives to meet its net zero targets, the need for clear, consistent policies and innovative solutions becomes ever more critical. The insights from this panel highlight the complex, multifaceted approach needed to ensure a sustainable and resilient energy future for the UK.

Panel 4 Overview



Panel 4: Navigating the Transition – Oil & Gas in the UK's Changing Energy Landscape

In the fourth panel of the **Energy Landscape UK 2024** conference, moderated by Saloni Kapoor from Grant Thornton UK LLP, industry leaders Olivia Powis (UK Director at Carbon Capture and Storage Association) and Nathaniel Ng (Director of Energy Transition M&A Advisory at Jacobs) engaged in a critical discussion on the role of oil and gas in the UK's transition to net zero. They examined the

complex interplay between fossil fuel use and the pressing need for sustainable energy solutions amidst climate challenges.

Key Insights:

- 1. The Future of Oil and Gas Amidst Net Zero Goals: The panel kicked off with a discussion on the UK's net zero ambitions, addressing the feasibility of reducing reliance on fossil fuels while grappling with catastrophic climate events. The tension between issuing new drilling licenses and the overarching goal of achieving net zero was a focal point, sparking a robust debate on the future of the oil and gas sector.
- 2. Role of Carbon Capture and Storage (CCS): A significant portion of the dialogue centered around the importance of CCS technologies in the UK's energy strategy. Saloni Kapoor highlighted government initiatives, including those introduced under Boris Johnson's leadership, aimed at enhancing CCS capabilities. The conversation explored how CCS could serve as a crucial bridge in transitioning from traditional fossil fuels to more sustainable energy sources, emphasising the need for public and investor support.
- 3. **Supply Chain and Transportation Challenges:** The panel discussed the future's value chain's strategies for CO2 management, focusing on the roles of various stakeholders across the UK and Europe in CO2 storage and transportation. Nathaniel Ng shared insights from his extensive experience in the oil and gas sector, stressing the importance of robust supply chains and innovative capture technologies in facilitating a successful transition.
- 4. Impact of Policy on Investor Sentiment: The discussion highlighted the implications of the UK government's increased energy profits levy on investments in the oil and gas sector. Saloni pointed out that clear and consistent policies are essential for attracting investment in CCS and other low-carbon technologies. The panelists agreed that enhancing skill transfer from traditional oil and gas roles to CCS projects is crucial for building a workforce equipped to meet future energy needs.
- 5. Strategic Actions Moving Forward: The panel concluded with a call to action, emphasising the need to address the role of oil and gas in the evolving energy landscape. They outlined potential strategies, including collaboration with insurance providers, improving CO2 transportation methods, and developing communication strategies to foster public understanding of CCS initiatives.

Conclusion:

The panel underscored the critical crossroads at which the UK energy sector stands, navigating the complexities of transitioning from fossil fuels while aiming for ambitious net zero targets. The discussions highlighted the vital role of carbon capture and storage as a key solution in this transition, calling for sustained government support, innovative policy frameworks, and industry collaboration to achieve a sustainable energy future. The insights shared by the panelists reinforced the need for a balanced approach, integrating the strengths of the oil and gas industry with the urgent demands of climate action.

Panel 5 Overview



Panel 5: Powering the Future - Nuclear Energy's Role in the UK

In a compelling discussion moderated by Tom Greatrex of the Nuclear Industry Association, industry leaders gathered to explore the pivotal role of nuclear energy in the UK's energy landscape. Panelists, including Rachael Glaving (EDF UK), Leon Flexman (X-energy), Michael Jenner (Last Energy UK), Lynne Matthews (Destination Nuclear), Rich Deakins (UKRI), Andrew Storer (Nuclear AMRC) and Mike Peers (Urenco Capenhurst), addressed nuclear's potential in bolstering energy security, driving decarbonization, and contributing to economic growth.

- 1. **Nuclear Energy and Economic Growth:** The session began with Lynne introducing a recruitment campaign aimed at enhancing the UK's economy through nuclear commercialisation. The emphasis was on developing a robust supply chain and innovative products, highlighting the sector's potential for job creation and economic impact.
- 2. Energy Security and Decarbonisation: Panelists discussed nuclear energy's critical role in ensuring energy security and stable prices. They tackled challenges such as financing, public perception, and policy frameworks, emphasizing that nuclear is essential for achieving a low-carbon energy supply and maintaining the UK's competitive edge in energy production.
- 3. Harnessing Technology for Efficiency: The conversation shifted to the transformative potential of AI and machine learning in nuclear operations. Participants highlighted how these technologies could significantly reduce project delivery times, enhance service efficiency, and expand market reach, particularly in rural areas.
- 4. Community Impact and Workforce Development: The discussion underscored the civil nuclear sector's growth, notably through projects like Hinkley Point C, which has created thousands of jobs and generated substantial economic activity in local communities. The need for strategic workforce planning and skill retention was emphasised, ensuring the sector can meet future challenges, especially as older facilities are decommissioned.
- 5. **Pathway to Net Zero:** The panel highlighted the necessity of a comprehensive material database and technology assessment to facilitate sustainable investment in nuclear power.

The dialogue called for collaboration between government and industry to ensure a skilled workforce and a robust supply chain, reinforcing nuclear's role in a diverse energy mix.

6. **Future Collaborations and Innovations:** The session concluded with discussions on future engagements involving Electric Vehicles and hydrogen, emphasizing the need for global collaboration and innovation to address energy challenges. Attendees expressed a strong desire for continued dialogue and partnership in these emerging fields.

Conclusion:

The panel painted a vivid picture of nuclear energy's critical role in the UK's energy transition, underscoring its potential to enhance energy security, drive economic growth, and contribute to decarbonisation. The discussion showcased a unified vision for leveraging nuclear technology, community engagement, and strategic workforce development to build a sustainable energy future. As the session wrapped up, there was a palpable enthusiasm for continued discussions and collaborations in the evolving energy landscape.

Panel 6 Overview



Panel 6: Unleashing the Potential - Hydrogen in the UK's Clean Energy Revolution

In an insightful discussion moderated by Jordan Amir-Hekmat from ERM, industry leaders gathered to explore hydrogen's transformative role in the UK's clean energy landscape. Panelists, including Matt Stone (Power2X), Matt Wills (Kent), Greg Dodd (Northern Gas Networks), and Holly Pattenden (Equinor), delved into the challenges and opportunities surrounding hydrogen production, regulation, and community engagement.

- 1. **Decarbonisation through Hydrogen:** The panel kicked off with Matt Wills detailing his work on the High Net hydrogen project, emphasizing the significance of green hydrogen in the UK's decarbonisation strategy. Greg Dodd contributed insights on regulatory frameworks necessary to support both domestic and industrial hydrogen applications.
- 2. Government Clarity and Policy Needs: The discussion highlighted a critical need for clear government policies to guide the development of hydrogen technologies and carbon capture

initiatives. Panelists expressed frustration over the UK's dependency on European data rather than investing in domestic research and infrastructure.

- 3. Innovative Technologies and Storage Solutions: Participants discussed various innovative hydrogen production methods, including thermal plasma electrolysis and methane paralysis. The importance of effective storage solutions, like salt caverns, was underscored as essential for ensuring a stable hydrogen supply and facilitating international trade.
- 4. **Community Engagement and Public Perception:** The panel emphasized the need for robust community engagement strategies to mitigate public skepticism about hydrogen. They highlighted the legacy of safety concerns and the importance of transparent communication to build trust and support for hydrogen initiatives.
- 5. **Urgency for Government Action:** The panel expressed optimism about the UK's leadership in the hydrogen economy, calling for swift government decisions on investments and infrastructure development. Emphasis was placed on aligning with EU regulations to enhance international cooperation and trade in hydrogen.
- 6. Collaborative Action for Future Success: Concluding the session, the panelists shared a vision for collaborative efforts across government, industry, and communities to harness hydrogen's potential. The dialogue emphasised the urgency of a collective approach to achieve the UK's decarbonisation goals and support the hydrogen economy.

Conclusion:

This panel illustrated the critical role hydrogen can play in the UK's energy transition, addressing both the challenges and the promising pathways ahead. With a strong emphasis on government clarity, community engagement, and technological innovation, the discussion painted an optimistic future for hydrogen as a cornerstone of a sustainable energy strategy. The call for collaborative action underscored the potential for the UK to lead in the hydrogen revolution, paving the way for a cleaner, more resilient energy landscape.

Panel 7 Overview



Panel 7: The Future of E-Charging Stations in the UK: Navigating Towards Sustainable Mobility

In a dynamic discussion moderated by Maria Bengtsson from EY, key figures from the electric vehicle (EV) sector explored the essential role of charging infrastructure in achieving sustainable mobility in the UK. Panelists included James Court (EVA England), Chris Pateman-Jones (Connected Kerb), Matt Rooney (Institution of Mechanical Engineers), and Matthew Adams (REA).

Key Insights:

- 1. **Growth and Advocacy in the EV Industry:** Maria Banks and James Court set the stage by discussing the rapid growth of the EV sector and the advocacy efforts needed to overcome challenges in the net zero transition. Matt Adams highlighted the importance of technology and behavioral changes in promoting EV adoption.
- 2. The Crucial Role of Charging Infrastructure: Chris Pateman-Jones emphasised the importance of reliable charging infrastructure for EV uptake, addressing challenges such as public misconceptions and the need for collaboration between government and industry. Key points included economic implications, grid impacts, and the potential of smart charging technology to enhance accessibility.
- 3. **Investment Hurdles and Market Dynamics:** The conversation revealed the variable impact of infrastructure investment on EV adoption, highlighting the influence of location and consumer convenience. It was noted that despite advancements, demand-supply challenges persist in the EV charging landscape.
- 4. **Collaboration and Standardization:** The panel focused on the evolution of charging infrastructure, particularly smart grids in Oxfordshire, and the need for regulatory frameworks that ensure reliability and accessibility. The importance of open data was emphasised in addressing market distortions and facilitating a sustainable transition.
- 5. **Urgency for Government Action:** Panelists stressed the need for ambitious government initiatives to enhance charging infrastructure and promote salary sacrifice schemes to incentivize EV adoption. They called for increased collaboration to position the UK as a leader in EV technology and manufacturing.

Conclusion:

This panel underscored the transformative potential of EV charging infrastructure in supporting the UK's shift towards sustainable mobility. With a focus on collaboration, regulatory support, and community engagement, the discussion highlighted the critical steps needed to overcome current challenges and drive widespread EV adoption. The call for proactive government action and innovative solutions set a hopeful tone for the future of electric mobility in the UK.

Panel 8 Overview



Panel 8: Pioneering Global Collaboration for Net Zero Transformation

In a compelling session moderated by Dr. Elina Militello Asp from the UK Atomic Energy Authority, leading experts gathered to discuss innovative energy technologies essential for achieving net-zero emissions by 2050. Panelists included Maria Kolodnytska (newcleo), Hugo Doyle (First Light Fusion), Derreck van Gelderen (PA Consulting), and Martin Soltau (Space Solar).

- 1. **Fusion Power Evolution:** Hugo highlighted First Light Fusion's commitment to achieving fusion power through an inertial confinement approach, emphasising the critical need for global collaboration to make fusion relevant by the 2050 net-zero target.
- 2. **Next-Gen Nuclear Solutions:** The panelist introduced advanced modular reactors, showcasing a startup focused on innovative nuclear designs that leverage extensive industry experience. This initiative positions the UK as a leader in clean energy technologies.
- 3. **Space-Based Solar Potential:** Martin presented an ambitious vision for space-based solar power, which aims to harness solar energy from orbiting satellites. This technology promises continuous, reliable energy supply by the early 2030s, reinforcing the UK's leadership in the clean energy arena.
- 4. Al's Role in Energy Transformation: Derreck van Gelderen emphasised the transformative impact of AI in the energy sector. The discussion centered on the urgent need for the energy industry to adopt AI solutions to enhance efficiency, meet growing demands, and drive innovation.
- 5. **Importance of Global Collaboration:** The panel underscored the need for international partnerships to combat climate change. They highlighted the Ether project, a historic initiative now involving 35 countries, as a vital step towards maximizing fusion energy production.
- 6. **UK's Competitive Edge:** The conversation addressed the UK's strategic efforts to attract global talent, particularly in AI, while recognizing post-Brexit challenges. A proactive approach to

investment in education and innovation was deemed crucial for maintaining the UK's position as a collaboration hub.

7. **Building a Sustainable Future:** Panelists called for targeted initiatives to foster collaboration, emphasising the role of technology in transforming education and addressing environmental challenges. The discussion concluded with a commitment to promoting sustainability and innovation across all sectors.

Conclusion:

This panel highlighted the urgent need for collaborative action and innovative solutions to tackle climate change. With fusion power, advanced nuclear technology, and space-based solar initiatives on the horizon, the path to achieving net-zero emissions by 2050 is not just a goal but a collective mission that demands global commitment and cooperation.



Panel 9: Private and Public Investment Synergy - Fuelling the UK's Net Zero Revolution

In an insightful discussion led by moderator Ian Catterall from Howden, industry leaders including Adele Hutchings (National Grid) and Jennifer Beckwith (CBI) explored the pivotal role of investment in accelerating the UK's clean energy transition by 2030.

Key Themes:

- 1. **Investment Landscape:** Adele Hutchings, with her background in project finance, emphasised the importance of integrating insurance with project financing to support significant energy transition initiatives. This synergy is crucial for unlocking capital for innovative projects.
- 2. Balancing Fossil Fuels and Green Investments: Jennifer Beckwith highlighted the challenge of balancing investments between fossil fuels and energy transition projects. She urged a

strategic approach to understand the UK's energy needs for the next decade, advocating for a unified investment strategy rather than a fragmented one.

- 3. Accelerating Decarbonisation: The panel discussed the urgent need for increased investment in decarbonisation, proposing a blend of carbon taxation and investment incentives. This would not only reduce reliance on fossil fuels but also stimulate growth in low-carbon technologies and infrastructure.
- 4. **Government's Role in Policy and Investment:** The potential impact of a forthcoming labour government was underscored, with expectations for stronger policies promoting accelerated decarbonisation. However, there is a call for clarity on how ambitious plans will be implemented.
- 5. **Public-Private Partnerships:** A strong focus on collaboration between government and industry was highlighted. The establishment of frameworks like GB Energy and the UK Infrastructure Bank exemplifies how public-private partnerships can catalyze investment in the clean energy sector.
- 6. **Navigating Green Finance Challenges:** Despite the UK's leadership in green finance, competition with other financial hubs remains a concern. The panelists stressed the need for robust government policies and incentives to create a stable environment for green investments.
- 7. Addressing Skills Shortages: The discussion also pointed to a significant skills gap in the sector. A comprehensive UK-wide strategy for training and mobilizing the workforce is vital to meet the demands of the energy transition.

Conclusion:

The panel emphasised that the synergy between private and public investment is essential for driving the UK's net-zero revolution. With strategic collaborations, clear policy frameworks, and targeted investments, the transition to a sustainable energy future is not only achievable but necessary for the country's economic and environmental resilience.

Panel 10 Overview



Panel 10: COP28 Outcomes and Next Steps for UK's Net Zero Agenda

Moderated by Dr. Tony Rooke from Howden, this panel featured Sebastian Leape (Natcap) and Gavin Starks (Department for Business and Trade) discussing the implications of COP28 for the UK's net-zero strategy. The session emphasised the importance of a mission-driven government policy in addressing climate change and achieving economic growth, alongside a strong call for ministerial engagement and robust delivery plans.

Key Highlights:

- COP28 Achievements: The panel reflected on the significant progress made at COP28, particularly regarding biodiversity and sustainability. Sebastian emphasized the need for a holistic approach that encompasses climate change, biodiversity, freshwater, and pollution. He noted the critical initiatives discussed at COP28, such as "Nature Positive" projects aimed at combatting deforestation and protecting habitats.
- 2. Integrating Sustainability into Business: The discussion centered on how businesses can integrate sustainability into their operations through improved data collection and reporting. Gavin highlighted the UK's Smart Data Bill and the importance of high-quality data for informed decision-making, especially in the financial sector.
- 3. **Financial Incentives and Regulatory Changes:** The conversation underscored the necessity of investing in low-carbon technologies and the role of insurance in mitigating risks associated with sustainability initiatives. There was a strong emphasis on the need for regulatory reforms that facilitate transparency in environmental impact disclosures.
- 4. **Challenges in Achieving Net Zero:** The panelists addressed the slow pace of political processes in enacting meaningful climate action. They called for more inclusive approaches to environmental policies, ensuring that small and medium-sized enterprises (SMEs) and broader communities are considered alongside larger corporations.
- 5. **Mandatory Reporting and Governance:** There was a consensus on the need for mandatory reporting of nature-related impacts. The panel advocated for clear governance structures to enforce compliance and improve the quality of disclosures regarding sustainability efforts.
- 6. **Future Directions:** As the session concluded, plans for future discussions were made, emphasising the need for continuous engagement and cooperation across sectors to drive the UK's net-zero agenda forward.

Conclusion:

The panel highlighted that achieving net-zero emissions and addressing broader sustainability crises requires a coordinated effort from government, industry, and society. By integrating environmental considerations into financial and operational frameworks, fostering accountability, and engaging diverse stakeholders, the UK can move toward a more sustainable future in the wake of COP28.

ELUK 2024 **Testimonial**

"Energy Landscape was an incredibly intelligent and dynamic cross-sector energy debate. It's the first time I've seen all energy sectors come together in such a meaningful way, fostering insightful discussions that truly broke new ground. The conference was not only highly informative and engaging but also facilitated potential cross-sector collaborations—the first of its kind. A must-attend for anyone passionate about shaping the future of energy." Sarah Mintey MBE, CEO, Developing Experts

"Energy Landscape UK was informative and insightful, with some of the best panel sessions I can remember. It has the potential to be one of the industry's landmark events."

Ben Hunt - VP Communications & Public Affairs - Jera Nex

"Congratulations to Andy Beales and the team at for holding such a successful Energy event this week. it was fabulous to hear what is happening in the sector! With such excellent panellists and topics of discussion, I look forward to the event next year!"

David Nichols - Chief Operating Officer, Climate & Resilience, Howden

"I had the pleasure of chairing two excellent panels at ELUK2024. We covered trends in the UK electricity market and broader UK renewables. Fascinating insights from eloquent, informed and engaging panelists. a massive thank you and shout out to Andy Beales and Rekha Kaur for organising the event."

Adrian Del Maestro - VP Global Energy Advisory – AECOM

"We've come away from the conversation at Energy Landscape UK with our brains buzzing - feels like an exciting time ahead."

C3 Communications

"Two great days in London attending the inaugural Energy Landscape UK Conference. A real smorgasbord of experience covering technology from Fission to Fusion, Wind to Hydro to new entrants like Space Solar. Some great networking too. Thanks to Andy Beales and Rekha Kaur for both organising and being great hosts, especially as Rekha is 7 months pregnant!"

Dave Edwards - Managing Director - F&H Power Consultants

"Yesterday I had the privilege to chair a panel on the energy transition at the Energy Landscape UK 2024 conference here in London. Thanks to Andy Beales and Rekha Kaur for this event, and the massive food and drinks selection during the day. I've never been this well-fed at an event in London! But most of all, for trusting me with running this panel and helping map out, what I hope were very thoughtful insights for the audience."

Saloni Kapoor - Associate Director - Grant Thornton

"Really enjoyed being on the panel 'Pioneering Global Collaboration for Net Zero Transformation' at the Energy Landscape UK Conference today. Well done to Andy Beales and Rekha Kaur for attracting such great speakers throughout the day."

Maria Kolodnytska - Leader in Nuclear New Build - Newcleo

THE ENERGY LANDSCAPE UK (ELUK2025) CONFERENCE & EXHIBITION

SAVE THE DATES





60+ EXPERT PANELISTS

30+ EXHIBITORS

10+ PANEL SESSIONS

JOIN US FOR ELUK2025, THE PREMIER PLATFORM FOR ADVANCING THE UK'S JOURNEY TOWARD A SUSTAINABLE, CLEAN ENERGY FUTURE. BUILDING ON THE SUCCESS OF ELUK2024, THIS ANNUAL GATHERING HAS SOLIDIFIED ITS ROLE AS A CRITICAL FORUM FOR ADDRESSING THE CHALLENGES AND SEIZING THE OPPORTUNITIES ON THE ROAD TO NET ZERO. AS THE ENERGY SECTOR FACES UNPRECEDENTED CHANGE, COLLABORATION ACROSS INDUSTRIES AND INVESTMENT IN SKILLS WILL BE PARAMOUNT IN DRIVING THE NECESSARY TRANSITIONS.

IN 2025, WE ARE EXCITED TO OFFER AN EVEN MORE EXPANSIVE AGENDA, WITH A LARGER EXHIBITION SPACE TO ACCOMMODATE A GROWING DELEGATION OF INDUSTRY LEADERS, POLICYMAKERS, AND INNOVATORS. TOGETHER, WE WILL CONTINUE TO EVALUATE THE UK'S PROGRESS, DISCUSS EMERGING TECHNOLOGIES, AND EXPLORE THE POLICIES AND INVESTMENTS NEEDED TO ACCELERATE THE ENERGY TRANSITION. YOUR COMMITMENT TO SHAPING THE FUTURE OF ENERGY IS INVALUABLE, AND WE LOOK FORWARD TO WELCOMING YOU TO ELUK2025 AS WE WORK TOGETHER TO POWER A CLEANER TOMORROW.



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TO LEARN MORE ABOUT OUR SPONSORSHIP PACKAGES AND HOW THEY CAN HELP YOUR COMPANY ACHIEVE NEW HEIGHTS OF SUCCESS, PLEASE FEEL FREE TO CONNECT WITH US AT ANDY.BEALES@ENERGISELANDSCAPE.CO.UK. OUR TEAM IS HERE TO ASSIST YOU IN MAKING THE MOST OF THIS EXTRAORDINARY OPPORTUNITY.

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TO REGISTER INTEREST OR INQUIRE, PLEASE EMAIL ANDY.BEALES@ENERGISELANDSCAPE.CO.UK FOR MORE INFORMATION.

Speaking

IF YOU ARE A THOUGHT LEADER IN THIS AREA AND WOULD LIKE TO SUBMIT A CASE STUDY SESSION OR ADDRESS, PLEASE EMAIL REKHA.KAUR@ENERGISELANDSCAPE.CO.UK.

Advisory Committee

ARE YOU PASSIONATE ABOUT THE ENERGY LANDSCAPE IN THE UK? DO YOU WANT TO MAKE A LASTING IMPACT AND BE RECOGNIZED AS A LEADER IN THE FIELD? WE INVITE YOU TO BECOME A VITAL PART OF THE ELUK 2025 ADVISORY COMMITTEE! CONTACT REKHA.KAUR@ENERGISELANSDSCAPE.CO.UK TO LEARN MORE.

Thank You!

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