

# Programme Summit



28-30 November 2023  
Paris, France

A festival of energy knowledge and new thinking across two stages in contrasting formats and an exciting networking area.

|   | 28-Nov   |   | 29-Nov   |   | 30-Nov   |
|---|--|---|--|---|--|
|   | AM   | PM  | AM   | PM  | AM   |
| <p><b>EVOLVE STAGE</b></p> <p>On the Evolve Stage, C-level speakers, policymakers and influencers examine the energy transition's key conundrums, structural issues and barriers, through panel discussions with the aim of accelerating progress and driving change.</p> | <p><b>Opening Keynote</b><br/>10h00 - 12h00</p> <p><b>Keynote presentations followed by a Panel Discussion:</b><br/><b>Energising a quantum leap to an integrated decarbonised energy system</b></p> <p><b>Open to Delegates only.</b></p> | <p><b>Supply Chain Challenges</b><br/>14h00 - 15h15</p> <p>A discussion that asks how de-globalisation and constraints on supplies of commodities, equipment, services, and expertise, along with slow permitting threaten to impede Europe's energy transition.</p>  | <p><b>Skillset Challenges of a Transitioning Workforce</b><br/>9h30 - 10h45</p> <p>A successful energy transition requires a workforce transition, bringing in new skills and reskilling existing personnel. In this session, we ask how can we best achieve this within the net-zero timeframe, what plans are needed, who needs to be involved and can valuable lessons be learnt from other industry sectors in transition?</p> | <p><b>Future-Proofing the Grid</b><br/>13h45 - 15h15</p> <p>Planning for a Grid fit for 2050 and beyond in Europe. While having Flexibility playing a major role, which capabilities are essential and what anticipatory investments are needed? Flexibility and Technology will help us buy a little time to be plan for this Grid, but will it be enough?</p> | <p><b>Think Tank 2023: Is Europe at risk of losing its first-mover advantage in the energy transition?</b><br/>10h45 - 11h30</p> <p>With a working groups format, this special session will explore Europe's current strengths, weaknesses, opportunities, and threats from a political, economic, technological, and societal perspective when it comes to its leadership efforts in transitioning its energy system.</p> |
|   |  | <p><b>CyberSecurity and Critical Infrastructure</b><br/>15h45 - 17h00</p> <p>With AI-enabled frauds on the rise, how can modern cybersecurity leaders strengthen their systems in the face of these growing challenges? What keeps the CISOs awake?</p>   | <p><b>Achieving a Net Zero Industry</b><br/>11h15 - 12h30</p> <p>In this session we are discussing how the Act will help enhance the competitiveness of Europe's net-zero industry and support the fast transition to climate neutrality. In addition, we are going to also discuss the new dependences (e.g. with Norway, Azerbaijan, USA) that the EU is forming.</p>  | <p><b>Power Market Design and Efficiencies</b><br/>15h45 - 17h00</p> <p>To accelerate a surge in renewables and better protect consumers from future price spikes, reforms of the EU's electricity market design are needed. How will these reforms affect the market and what implications will a new market design have?</p>                                  |  |
| <p><b>INSPIRE STAGE</b></p> <p>On the Inspire stage, you will gain an appreciation of some of the frontiers topics of the increasingly borderless energy transition, with inspiring industry leading speakers and panel discussions unpacking these key issues.</p>       |  | <p><b>Digital Strategies</b><br/>13h45 - 15h15</p> <p>An inevitable Cloud transition; AI and the role of the utility; Open innovation platforms and best practices for sharing data to foster external innovation. Discussion around the need for an overall Digital Strategy starts by looking at the Data Architecture.</p> | <p><b>Leaders Conversations</b><br/>9h10 - 9h20</p> <p>Start the day by eavesdropping on a relaxed conversation with two of Europe's energy leader</p>   | <p><b>North Sea Energy Strategies</b><br/>14h00 - 15h15</p> <p>Whether it is building floating solar, connecting ever bigger wind farms or constructing energy islands, the North Sea has the potential to be a major contributor to the energy transition. So what's needed to make this a reality?</p>  | <p><b>Operating the Future Energy System</b><br/>10h00 - 11h15</p> <p>By 2050, Europe's energy system aims to achieve net zero with high RES penetration, intelligent technology, and greater consumer participation. Handling this complexity poses a challenge, so how can we ensure efficient operation and interoperability to manage the future energy system?</p>  |
|   |  | <p><b>SET Plan: Digitalisation and the Green Deal</b><br/>15h45 - 17h00</p> <p>In this session we are going to focus on how the European Strategic Energy Technology Plan (SET Plan) is going to be instrumental in promoting the key objectives of the Green Deal.</p>   | <p><b>Nuclear Renaissance</b><br/>9h30 - 10h45</p> <p>Soaring energy prices and ambitious climate targets have put nuclear energy back on the map. What role will nuclear energy play in Europe's future energy mix? And what are the trends, predictions and innovations happening in this field?</p>   | <p><b>Gas and Hydrogen Strategies</b><br/>15h45 - 17h00</p> <p>Europe's strategy to keep natural gas and LNG supplies in line with the demand will still have to deal with many uncertainties. What is the outlook for gas markets in the coming year and on the longer term, what is the outlook for hydrogen and decarbonized gasses?</p>                     |  |
|   |  |   | <p><b>Strategies for Enabling Flexibility</b><br/>11h15 - 12h30</p> <p>By its very nature the transition to a low-carbon energy system means greater complexity. Thus, building greater flexibility into the system is of fundamental importance. In this session, we explore various strategies, including ones on how to effectively monetize flexibility.</p>   |   |  |

# Programme Hub Sessions

Join inspiring leaders and experienced professionals as they bring top-class presentations and panels right onto the exhibition floor. Surrounded by leading solution providers you can enjoy the perfect mix of knowledge & technology.



28-30 November 2023  
Paris, France

|  | 28-Nov |   | 29-Nov   |  | 30-Nov  |
|--|--------|---|--|--|---|
|  | AM     | PM  | AM   | PM   | AM  |
| <b>Decarbonisation Hub - Theatre 1</b> |        | <p><b><u>Decarbonising industrial activities</u></b></p> <p>Global emission reduction targets will be hard to achieve without industry slashing its emissions. It's a tall order but solutions are out there.</p>   | <p><b><u>Responsible renewable energy</u></b></p> <p>Decarbonisation demands the deployment of renewable energy generation on a vast scale, so how this be financed and achieved in a way that is socially responsible and sympathetic to the environment?</p> | <p><b><u>Four Ds Pitching Festival - Decarbonisation</u></b></p> <p>As part of the bigger Four Ds Innovation Festival, selected start-ups and scale-ups have the opportunity to present their solution to help achieve energy Decarbonisation to a jury of innovation experts, with the winner announced at the Innovation Networking Reception.</p> | <p><b><u>The Heating &amp; Cooling Challenge</u></b></p> <p>With heating &amp; cooling accounting for half of the final EU energy use, what approaches are needed to mitigate climate impact and boost energy security?</p> |
|  |        | <p><b><u>Optimising decarbonisation through sector coupling</u></b></p> <p>Sector integration is key to optimising the EU's energy system by linking the various energy carriers with each other and with the end-use sectors, such as buildings, transport or industry.</p>                                | <p><b><u>New infrastructure versus repurposing</u></b></p> <p>Examples of adaptation of existing infrastructure, re-purposing and managed decommissioning and how to opt for the best alternative.</p>   | <p><b><u>Mobility - destination decarbonisation</u></b></p> <p>The transport sector is embarking on the vital journey towards decarbonisation, so this session will reveal just how far along sectors like aviation, shipping and road haulage are.</p>  | <p><b><u>Geothermal Energy</u></b></p> <p>What is the true potential of this largely untapped renewable energy resource and what is needed to tap into this reservoir?</p>  |
| <b>Decarbonisation Hub - Theatre 2</b> |        | <p><b><u>Carbon Capture opportunities, methods and applications</u></b></p> <p>This session will discuss the challenges and opportunities of scaling up carbon capture and storage with examples of the latest carbon capture technologies and their applications in the energy and industrial sectors.</p> | <p><b><u>Agile power plant &amp; grid systems</u></b></p> <p>Whatever the technology, today's power plants must ensure availability and flexibility to provide support to an agile grid system.</p>  | <p><b><u>Gas Turbines - Pathway to Decarbonisation</u></b></p> <p>How advanced are today's gas turbines in developing fuel flexibility and what does hydrogen-ready mean in practice?</p>  | <p><b><u>Fossil-Free France</u></b></p> <p>Taking a look at the best examples of zero carbon projects in France and how the Olympics will be setting the example.</p>   |
|  |        | <p><b><u>Decarbonising Heat: The Mammoth challenge</u></b></p> <p>Heating/cooling decarbonisation is the elephant in the room, so we get to grips with the challenge and the solutions, such as heat pumps, CHP, green gases &amp; waste heat recovery.</p>   | <p><b><u>Power Plant Decarbonisation</u></b></p> <p>A focus on power infrastructure carbon and emission reduction needs and solutions, for today, the near future and the long term.</p>   | <p><b><u>Nuclear - the Transition Enabler</u></b></p> <p>Find out how the next generation of nuclear technologies will totally change the way industry engages with a more modular, flexible and multi-purpose carbon-free energy source.</p>  | <p><b><u>Decarbonised Transportation in Action</u></b></p> <p>The best current and emerging technologies and solutions to decarbonise trucking, trains, planes &amp; shipping.</p>  |
|  |        |   |  |  |   |

# Programme Hub Sessions



28-30 November 2023  
Paris, France

|                             |  | 28-Nov |  | 29-Nov   |  | 30-Nov  |
|-----------------------------|--|--------|--|--|--|---|
|                             |  | AM     | PM   | AM   | PM   | AM  |
| <b>Decentralisation Hub</b> |  |        | <p><b><u>Flexibility by linking Decentralised Assets</u></b></p> <p>In this session, we will explore the trends and challenges in working with decentralised assets and how to link these to provide flexibility to grid. We will also discuss developments related to smart mini-grids and grid edge computing.</p>   | <p><b><u>Flex solutions for the Grid - Enabling Technologies</u></b></p> <p>Using flexibility solutions can prevent the need for certain grid investments. In this session we will discuss technologies such as the potential for EVs, heatpumps, electrolyzers and their impact on the stability of the grid.</p>   | <p><b><u>Flex solutions for the Grid - Grid innovation</u></b></p> <p>Agregation- and flexibility services are of huge service to grid operators. But what are the business models behind this? How are local flexibility markets developing and what are the latest grid innovations?</p>   | <p><b><u>Stabilising the Decentralised Grid</u></b></p> <p>How do you control voltage frequency in an area with high penetration of distributed generation? And what technologies can help to develop and operate future energy networks for the renewable energy transition?</p> |
|                             |  |        |  | <p><b><u>Making it real: The central role of smartness indicators for Europe's digital and energy transitions</u></b></p> <p>The Smartness indicators will be discussed here.</p>  | <p><b><u>Four Ds Innovation Festival - Decentralisation</u></b></p> <p>As part of the bigger Four Ds Innovation Festival, selected start-ups and scale-ups have the opportunity to present their solutions to help achieve energy Decentralisation to a jury of innovation experts, with the winner announced at the Innovation Networking Reception.</p>                                    |   |
| <b>Democratisation Hub</b>  |  |        | <p><b><u>New Business Models supporting Energy Democratisation</u></b></p> <p>Showcasing some of the emerging business models, such as electricity-as-a-service offers, or discussions around 'energy sharing' amongst neighbours.</p>   | <p><b><u>Private Finance can and is helping to achieve energy democracy: Here's how</u></b></p> <p>In terms of addressing the cost-of-living crisis from an energy perspective, the two elephants in the room that are not being talked about are policies and finance.</p>  | <p><b><u>Time to realise the true potential of energy communities</u></b></p> <p>As we see tangible effects of our changing climate, a growing consumer base wants to be proactive. One example is the growing interest in energy community schemes, which is very much enjoying a YIMBI moment. To inspire, we showcase genuine success stories and outline what lessons can be learnt.</p> | <p><b><u>EIT InnoEnergy Career Impact Challenge Awards</u></b></p>  |
|                             |  |        | <p><b><u>Customer engagement: Data-centric? User-centric? Or does the magic lie with both?</u></b></p> <p>Customers want to engage with the energy transition. They have more things they can do/energy assets to manage. Plus, flexibility has become a business model driver, with data, used correctly, supporting engagement. All the right ingredients seem to be there, so how do utilities achieve the level of engagement from their customers they are seeking?</p> | <p><b><u>Energy poverty: How suppliers can help vulnerable customers</u></b></p> <p>Even if domestic energy costs fall, they are unlikely to return to levels seen 12-18 months ago. This is putting pressure on all households, with the most vulnerable ones impacted the most. You hear horror stories in the news of people being forced onto prepaid meters or self-disconnecting. By showcasing several best practice cases, we will demonstrate what suppliers can do to protect the most vulnerable customers.</p> | <p><b><u>Four Ds Innovation Festival - Democratisation</u></b></p> <p>As part of the bigger Four Ds Innovation Festival, selected start-ups and scale-ups have the opportunity to present their solution to help achieve energy Democratisation to a jury of innovation experts, with the winner announced at the Innovation Networking Reception.</p>                                       | <p>After working hard on their challenges over the course of Enlit Europe, each EIT InnoEnergy student group will present their solution to a panel of experts, including their Challenge-proposing company, culminating in the winner of each challenge being announced.</p>     |
|                             |  |        |  |  | <p><b><u>Women in energy: Inspiring the next generation</u></b></p> <p>Inspiring round table not to be missed</p>  |   |

# Programme Hub Sessions



28-30 November 2023  
Paris, France

|  |  | 28-Nov  |    | 29-Nov  |    | 30-Nov   |  |
|--|--|---|----|---|----|--|--|
|  |  | AM  | PM | AM  | PM | AM   |  |
| <b>Digitalisation / DATA<br/>Hub - Theatre 1</b> |  | <b><u>DIGITOPIA   Co-hosted with Eurelectric</u></b>  |    | <b><u>With a little help from IoT</u></b>   |    | <b><u>Myths and hard truths: Opportunities in the South African Energy Market</u></b>  |  |
|  |  | <p>“Panel 1: AI in the Energy Sector in Europe: Opportunities, Challenges and Recommendations<br/>Panel 2: Exploring the Future: Common EU Energy Dataspace<br/>”</p> |    | <p>Assessing the technology and communication required today with IoT to support the varying nature of renewable energy and facilitate non-stop energy supply to the consumers.</p> |    | <p>Join James Mackay, CEO of the Energy Council of South Africa who will be giving a frank update on the status of the South African power sector; shining a light on key sector reforms, hard truths and the status of national projects.</p> <p>As CEO of the Energy Council, James leads the participation of business in the SA's Presidential Energy Action Plan, reporting to the President and key Ministers. He has intimate and up to date knowledge of the state of play and direct contact with all of the key stakeholders driving the course of South Africa's energy future.</p> |  |
|  |  |   |    | <b><u>Energy Data Analytics - Part 1</u></b>  |    | <b><u>Data Cloud services</u></b>  |  |
|  |  |   |    | <p>Solutions to monitor and reduce grid downtime, predicting changes to fluctuating market demand in real time as well as balancing assets.</p>                                     |    | <p>Latest cloud-based applications enabling new business models around demand response and help utilities improve customer service, manage outages and optimise grid performance. Latest cloud-based platforms to optimise operations and make better informed decisions about where to invest in new resources.</p>   |  |
|  |  |   |    | <b><u>Energy Data Analytics Part 2</u></b>  |    | <p>Discussion with the Future Energy Leaders: Skills needed in a changing environment.</p>   |  |
|  |  |   |    | <p>Solutions to monitor and reduce grid downtime, predicting changes to fluctuating market demand in real time as well as balancing assets.</p>                                     |    |  |  |

# Programme Hub Sessions



28-30 November 2023  
Paris, France

|                                       |  | 28-Nov |   | 29-Nov  |  | 30-Nov  |
|---------------------------------------|--|--------|---|---|--|---|
|                                       |  | AM     | PM  | AM  | PM   | AM  |
| <b>Digitalisation Hub - Theatre 2</b> |  |        | <b>Interoperability</b><br><br>New developments in technology to create interoperable solutions and the practical approaches taken by utilities in their roll-out of smart meters including related tools for energy management.  | <b>Cybersecurity / Cyber resilience</b><br><br>Risk and Challenges in a decentralised system. We'll look into the pathway to a more secure and resilient energy future.   | <b>Four Ds Pitching Festival - Digitalisation</b><br><br>As part of the bigger Four Ds Innovation Festival, selected start-ups and scale-ups have the opportunity to present their solution to help achieve energy Digitalisation to a jury of innovation experts, with the winner announced at the Innovation Networking Reception. | <b>AI &amp; Machine Learning &amp; Robotics</b><br><br>Deep dive into automation, virtual reality and artificial intelligence increasing accuracy and efficiency in a digital Energy world. |
|                                       |  |        | <b>Behind the Meter</b><br><br>Solutions, aggregation and optimisation. From smart meter to charging and towards home energy management.  | <b>Digital Additive Manufacturing</b><br><br>Digital additive manufacturing supply chain panel.   | <b>Trends &amp; Avant-Garde tech</b><br><br>DC Grid, Grid edge computing, Digital Twin, VPP, embedded IT, Generative AI, Visualisation, Interconnectors and Quantum Computing.   |   |
|                                       |  |        |   | <b>Next Gen - Dutch Energy Metering System</b><br><br>Future ready due to hardware modularity & software flexibility and the X1 realtime interface, and the tender procedure in 2024  |  |   |
|                                       |  |        |   |   |  |   |
| <b>Hydrogen &amp; Storage Hub</b>     |  |        | <b>Energy Storage - Policy, regulation and opportunities</b><br><br>This session provides an overview of the current policy and regulatory landscape for energy storage and the arising business opportunities. Speakers will discuss the latest developments and opportunities in the industry, highlighting the need for a stable and supportive policy framework to drive growth and investment. | <b>Green &amp; Clean Hydrogen - The technology</b><br><br>Join us for a dynamic session exploring the revolutionary potential of green hydrogen technology, its role in decarbonizing industries, and the latest advancements shaping a sustainable future                    | <b>Energy Storage - The technology</b><br><br>Exploring the technologies   |   |
|                                       |  |        | <b>Hydrogen - Policy, regulation and opportunities</b><br><br>Join this session to hear experts share updates on the policy and regulatory framework for hydrogen in the energy transition. Discussions will focus on accelerating investment, infrastructure, and innovation to unlock the potential of hydrogen as a clean energy vector.   | <b>Green &amp; Clean Hydrogen - The projects</b><br><br>Discover real-world success stories and inspiring examples of green hydrogen projects that are driving the transition to a cleaner and more sustainable energy landscape. Learn from the pioneers shaping our future. | <b>Energy Storage - The projects</b><br><br>Exploring the latest projects in Europe  |   |
|                                       |  |        |   |   |  |   |

# Programme EU Projects Hub



28-30 November 2023  
Paris, France

|                                     |  | 28-Nov |   | 29-Nov   |  | 30-Nov                         |
|-------------------------------------|--|--------|---|--|--|--------------------------------|
|                                     |  | AM     | PM  | AM   | PM   | AM                             |
| EU PROJECTS ZONE<br>HUB - THEATRE 1 |  |        | <b>Unlocking Flexibility Markets: Are Customers Ready to Embrace Innovation?</b><br>13h30 - 14h30 | <b>Financing EU Projects</b><br>9h30 - 10h30                                 | <b>Three projects discussing eMobility</b><br>13h30 - 14h00                      |                                |
|                                     |  |        | <b>New Kids on the Block</b><br>14h30 - 15h30   | <b>Energy communities, the issue with corporate capture</b><br>10h30 - 11h30 | <b>Energy Data Spaces - Buildings</b><br>14h00 - 15h00                           | <b>INSULAE</b><br>9h30 - 12h30 |
|                                     |  |        | <b>int:net</b><br>15h30 - 17h00   | <b>Technologies for Consumers</b><br>11h30 - 12h30                           | <b>Energy Data Spaces - Technologies</b><br>15h00 - 16h00                        |                                |
|                                     |  |        |   |  | <b>On the road to the European Sustainable Energy Week 2024</b><br>16h00 - 17h00 |                                |
|                                     |  |        |   |  |  |                                |
|                                     |  |        |   |  |  |                                |

# Programme EU Projects Hub



28-30 November 2023  
Paris, France

|                                     |   | 28-Nov                               |   | 29-Nov   |  | 30-Nov   |
|-------------------------------------|---|--------------------------------------|---|--|--|--|
|                                     |   | AM                                   | PM  | AM   | PM   | AM   |
| EU PROJECTS ZONE<br>HUB - THEATRE 2 |   |                                      | <b>Nuclear Technologies</b><br>13h30 - 15h00      | <b>Grid Technologies</b><br>9h30 - 10h30                           | <b>The BRIDGE Initiative</b><br>13h45 - 14h45  | <b>Live EU Projects Zone Podcast Series</b><br>10h00 - 12h00 |
|                                     |   |                                      | <b>Space, the final frontier</b><br>15h00 - 16h00 | <b>Grid Flexibility</b><br>10h30 - 11h30                           | <b>Reshaping energy landscapes:<br/>The key role of R&amp;I for RES</b><br>14h45 - 15h30 |  |
|                                     |   |                                      |   | <b>Large and Small scale storage technologies</b><br>11h30 - 12h30 | <b>OneNet(work) for Europe</b><br>15h30 - 17h00  |  |
| EU PROJECTS ZONE<br>HUB - THEATRE 3 | <b>Live EU Projects Zone Podcast Series</b><br>9h00 - 12h00 | <b>BEYOND H2020</b><br>13h30 - 17h00 | <b>frESCO H2020</b><br>9h00 - 12h30               | <b>ebalanceplus H2020</b><br>13h30 - 17h00                         | <b>FEVER H2020</b><br>9h00 - 12h30   |  |