

Programme Summit

A festival of energy knowledge and new thinking across three stages in contrasting formats.

Programme subject to changes.



29 Nov - 1 Dec 2022
Frankfurt, Germany

	29-Nov		30-Nov		1-Dec
	AM	PM	AM	PM	AM
<p>EVOLVE STAGE</p> <p>On this Stage, CEOs, policymakers and influencers unravel key conundrums through panel discussions aimed at accelerating the energy transition and driving change and innovation.</p>	<p>Opening Keynote</p> <p>10h00 - 12h00</p> <p>Panel:</p> <p>How to bolster Europe's energy security and independence</p>	<p>What's next in Digitalisation?</p> <p>13h30 - 15h00</p>	<p>Industrial clusters: The future of sector integration?</p> <p>9h30 - 11h00</p> <p>We examine how sector coupling, involving the increased integration of energy end-use and supply sectors with one another, is advancing the energy transition and spotlight where it is happening most effectively, in industrial cluster settings around Europe.</p>	<p>Enabling Flexibility</p> <p>14h00 - 15h00</p>	<p>Countdown to 2030</p> <p>10h00 - 12h00</p> <p>Special hands-on session to work on designing the next 10 years</p>
		<p>Panel:</p> <p>Europe's Energy - What is the right mix? Energy System scenarios & models for success</p> <p>15h30 - 17h00</p> <p>With energy security concerns and soaring fuel prices destabilising the normal stable energy mix across Europe, now is the time to examine how European countries should respond and to explore appropriate energy system scenarios and models for success.</p>	<p>Grid innovation</p> <p>11h15 - 12h15</p> <p>In order to fully decarbonise Europe's economy by 2050, this will mean significant investments in renewable energy, electrification, and digitalisation. How can Europe scale up the innovation that is needed to run a grid built around renewable energy? What kind of investments are needed?</p>	<p>Data Access & Sharing</p> <p>15h15 - 16h15</p> <p>The role of data in accelerating the transition towards a sustainable energy system is crucial and ever-increasing. The panelists will discuss opportunities and challenges around "Data Access & Sharing" in the energy sector.</p>	
		<p>Gas Infrastructure, What is in the Pipeline?</p> <p>12h30 - 13h30</p> <p>The EU's natural gas import dependency reached an all-time high level a couple of years back. The world's demand for natural gas today is set to decline slightly in 2022 as a result of higher prices and market disruptions caused by Russia's invasion of Ukraine, according to the IEA. Natural gas consumption this year is expected to fall by close to 6% in Europe. All eyes are looking toward the viability of converting natural gas pipelines into pipelines transporting hydrogen. Increasing low-carbon sources of energy is essential, including domestically produced low-carbon gases.</p>	<p>Energy Leaders' Perspectives on the 4Ds</p> <p>16h30 - 17h30</p> <p>This CEO Panel discusses perspectives on the way forward regarding further Decarbonisation, Digitalisation, Democratisation and Decentralisation of our energy system and how the roles of renewables and nuclear energy are changing.</p>		
<p>INSPIRE STAGE</p>	<p><i>The Inspire Stage is a platform for original thinkers, orators and charismatic energy communicators offering short bursts of inspiration, ideas and imagination. Series of 15 minute "stand-up" presentations.</i></p>				
<p>CONNECT STUDIO</p> <p>The hard questions will be asked and answered in the Studio with one-on-one interviews and journalist-led roundtable discussions.</p>	<p>Interviews</p> <p>Live one-to one Connect Series interviews</p>	<p>Interviews</p> <p>Live one-to one Connect Series interviews</p>	<p>Round Tables:</p> <p>Eastern Europe's role in the Energy Transition</p> <p>EnergyTransition: What the mainland can learn from islands</p> <p>Bridging the Transition Gap - Re-purposing and decommissioning as a holistic challenge</p>		

Programme Hub Sessions



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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.

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DECENTRALISATION HUB 1 Hall 12	Investing in Decentralisation: “REPowerEU”	<p>Investment in the infrastructure like EV charging infrastructure is needed to achieve a decentralised system.</p> <p>Panel: What is the right cost for Decentralisation?</p> <p>With ongoing investments into renewables and electrification, the need of investments in grids are rapidly increasing. We have to make sure that the focus is equally split and system operators are empowered to invest in the necessary speed and volume.</p>	Decentralised load balancing & Stabilising the Decentralised Grid	<p>Optimising decentralised load balancing through the use of locally available gas resources, microgrids, balancing technologies and grid computing.</p> <p>Panel: unlocking the LV market</p>	EV for the Grid	Regionalisation
	Renewable Energy - can we go fast enough?	<p>Exploring how different market participants are accelerating the roll out of renewable projects, the opportunities or constraints to be overcome and how this can contribute to reducing reliance on fossil fuels and energy imports.</p>	How to deliver a green hydrogen strategy	<p>met, how to build capacity, develop markets and achieve favourable policy & regulation.</p>	Sector Coupling in Action - Presentations & Panel	Flexibility from Gas
DECARBONISATION HUB 2 Hall 12	Integration of renewable energy	<p>Looking at the issues surrounding renewable energy integration through the lens of power and gas grids, market signals and projects developed in harmony with the natural world.</p>	Green Hydrogen: Technology, projects & solutions	<p>Highlighting the best examples of projects and technologies that are bringing hydrogen into the mainstream.</p>	Decarbonising Commerce & Industry	Gas fired generation technology - delivering today: ready for tomorrow
				<p>Looking at industrial clusters and other exemplars that are delivering sector integration and asking what's needed to boost investment & accelerate this further.</p>	<p>Looking at how gas projects and technology play a vital balancing role and how both engines and turbines provide flexibility to the energy transition.</p>	<p>Examples of gas plant and equipment meeting market needs and preparing for a net zero future.</p>

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DECARBONISATION HUB 3 Hall 12			<u>Nuclear power to the rescue?</u> In this session we examine how Europe's energy crunch is prompting a re-evaluation of nuclear energy in some countries, further encouraged by new technologies like SMRs.	<u>Plant re-purposing & life extensions</u> Shutter, extend or re-purpose. Highlighting the best examples of re-using existing power plants to reduce carbon footprint e.g. hybrid, storage, other use and when is life extension the best option?	<u>Scaling-up Energy Storage</u> Where are we with the scaleable storage solutions needed to avoid increasing RES curtailment? Is policy and regulation holding storage back? Evaluating the market, cost and materials constraints.	<u>Plant Operation & Optimisation</u> Existing plant operation, optimisation & decarbonisation
			<u>The potential of alternative fuels</u> Facilitatating new sources of production and import of green fuels, developing infrastructure to exploit bio-methane's potential, ammonia and waste to energy.	<u>Carbon Capture use and storage</u> Carbon capture is vital to achieving climate goal. This session looks at the value of CCU and examples of CCS in action.	<u>Long-duration energy storage</u> Season fluctuations and unusual weather patterns create a need for energy supply shifting. Long duration storage can meet that power shift need, provide grid stability, plus support decarbonisation in industrial and power generation settings.	<u>More Green Hydrogen: Technology, projects & solutions</u> Further examples of projects and technologies that are bringing green hydrogen into the mainstream.

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DIGITALISATION HUB 4 Hall 12			DIGITOPIA 3.0, co-hosted by Eurelectric. Part 1: Managing cyber risk in the electric power sector	Grid Edge Technologies: Utilities at work	Smart Grids Basque Country digitalised value chain in focus	Drones, robotics, AI and Space Data
			<p>The power network is the most critical and attacked pieces of infrastructure. Following Russia's military aggression and cyberwarfare on Ukraine, European businesses have acknowledged the need to strengthen cyber-defence capacities. This panel debate will address the challenges for the power sector to tackle the growing sources & nature of cyber threats, and how effective policies enable reducing vulnerabilities.</p>		<p>Iberdrola's priorities for investment in digitalising the distribution network in the coming years in the framework of Next Gen EU programme.</p>	
			DIGITOPIA 3.0, co-hosted by Eurelectric. Part 2: Scaling digital solutions in the power sector	Simulation, Digital Twin and Climate planning Panel: Role of Utilities as platforms and Grid 'orchestrators'.	IoT for the Grid: Powering the Demand	<p>Deep dive into automation, virtual reality and artificial intelligence increasing accuracy and efficiency in a digital Energy world.</p>
			<p>If scaled across industries, digital technologies could deliver up to 20% of the 2050 reduction needed to hit the IEA's net-zero trajectories. European programmes provide many funding opportunities and support mechanisms, yet the next step is to go "from first sale to full scale". This panel debate will address the policy uptake, market outreach, and societal deep dive necessary to the scale up, scale down and scale deep of digital solutions across the power sector.</p>		<p>The IoT supports the technology and communication required to make "smart grids" smart. In the context of the smart grid, IoT has concrete applications for monitoring electricity generation and demand, enabling ancillary services and smart metering, gauging intelligent power consumption, managing energy efficiency, interoperability between different networks, charging and discharging of electric vehicles. What are the Initiatives with utmost value creation for the user & customer? How to standardize and interoperate? What are the implications of WEB 3.0 and Blockchain for IoT-enabled smart grids? Dive into the latest directives in Europe, the Utilities ambitious strategies and the enabling/emerging technologies.</p>	

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DIGITALISATION HUB 5 Hall 12			<u>The Future of Smart Metering in the Netherlands</u> Vision on a changing environment & key challenges as triggers for a new metering concept. An agile but stable solution to fulfill this needs by the modular NextGen gateway with software flexibility. Better use of energy data due to the new realtime consumer interface (X1). Timelines for tendering, next steps and market introduction.	<u>Data Aggregation & Analytics</u> VPPs and leveraging excess capacity, how to marry Energy and Data? This crucial session will end with a panel focusing on Cybersecurity	<u>Cybersecurity for the Electrical Network</u> Given the physical characteristics of electrical energy and the high speed of electrical processes, controlling the operation of such a facility is a complex task from both an organisational and technical point of view.	<u>Green Data Centers</u> Assessing the energy-efficiency, climate-neutrality and overall sustainability of data centres is crucial today. Data centres need to become more energy efficient, reuse waste energy such as heat, and use more renewable energy sources, with a view to becoming carbon-neutral by 2030.
			<u>Strategic data exchange with the demand side. Part 1: Latest developments in technical solutions</u> The Clean Energy Package requires consumers to be at the heart of the EU energy market. This requirement demands strategic interaction between all energy service providers and prosumers and means interoperability of all related devices, components and systems. The first part will focus on new developments in technology to create interoperable solutions.		<u>The future of Cybersecurity in Italy</u> To be announced.	
			<u>Strategic data exchange with the demand side. Part 2: Practical experiences, lessons learned, new approaches</u> The second part will cover the new developments and the practical approaches taken by utilities in their first or second roll-out of smart meters and related tools for energy management. What are the barriers that end-users were confronted with, what are the solutions that were found and implemented, especially in multi-utility environment or specifically water distribution.			
			<u>Energy Communities - How to overcome financing and regulatory barriers?</u> This session presents energy community initiatives that have been successfully implemented. It will identify the barriers that persist and how they could be overcome so that energy communities' role in the market at a time of rising energy costs can be fully realised.	<u>Energy Communities - Enabling energy efficiency</u> In this session, we will zoom in on technologies and digital solutions that enable efficient energy communities, such as RES matching, traceability, blockchain, P2P trading solutions.	<u>Flexibility Markets - Monetising flexibility</u> Well functioning flexibility markets and capacity mechanisms are key to control wholesale energy prices. Local flexibility markets are developing slowly. This session will discuss how to accelerate decentralised flexibility markets and how trading decentralised flex is developing.	<u>How to organise system efficiency</u> By allowing consumers to flexibly adjust their consumption and generation, they would help integrate more renewable energy in the system and avoid unnecessary investments in grid reinforcements and back-up generation. How to organise this is the focus of this session.
DEMOCRATISATION HUB 6 Hall 12.1						

Programme **Initiate Hub**



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INITIATE HUB 1 Future Energy Leaders Hall 11.1			Innovation Nation - Germany Germany is one of, if not the start-up powerhouse of Europe. However, the last 2-3years have been challenging with the pandemic and now the energy crisis. We explore how its energy innovation ecosystem has been impacted.	How do we encourage more investment in deeptech? New ventures offering digital solutions have long been the “darlings” of VCs as they require a lower level of investment and offer a quicker ROI. However, deeptech is of fundamental importance to the energy transition, so we'll discuss how to make it a more attractive proposition.	Four Ds Pitching Festival	Early-stage start-ups: Are corporates missing a trick? In general, corporates tend to be drawn to start-ups that have a proved solution on the market and are generating revenue. However, could they be missing out on opportunities? We discuss how taking a new approach could reap enormous benefits, and showcase some success stories.
			Enel Flex Lab Workshop: One Year in Action To celebrate one year of the exciting Flexibility Lab initiative, the first results of its Working Groups will be presented, common strategies will be developed and shared and the latest information on key flexibility topics will be shared.	Special Session: French Innovation Focus In this special session, co-hosted with TotalEnergies, we will spotlight important innovations in the French energy transition sector, with a selection of French SMEs having the opportunity to present their innovative solutions.		Fireside Chat: Growing influence of ESG on the energy innovation ecosystem Whether or not you believe 'ESG' is the acronym of the moment, it's already having a profound impact on how innovation operates and in being funded. In an informal way we explore how ESG is becoming a “must-have” for the sector.
		EIT InnoEnergy Career Impact Challenges Kick-off The opening session for this year's EIT InnoEnergy CIC, with each Company Sponsor introducing their challenge to the EIT InnoEnergy student groups.	Investment in a Sustainable Transition Workshop In partnership with Energy Investment Management, this workshop provides participants with the opportunity to develop and present business cases focused on sustainability (e.g. circular economy, bio-based economy, etc.).	Challenges - TBC Focus of Challenge to be finalised.		Workshop #2 - TBC Second of two workshops co-created with a partner. Focus to be agreed with partner.
INITIATE HUB 2 Innovators & Disruptors Hall 12						

Programme EU Projects Hub



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EU PROJECTS ZONE HUB 1 Hall 12			<p>Revamping the Strategic Energy Technology Plan</p> <p>14h00 - 15h30</p> <p>The European Strategic Energy Technology Plan (SET Plan) aims to boost the transition towards a climate-neutral energy system by developing low-carbon technologies. It identifies ten key points: integrating renewable technologies in the energy systems, reducing costs of technologies, new technologies and services for consumers, resilience and security of energy systems, new materials and technologies for buildings, energy efficiency for industry, competitiveness in global battery sector and e-mobility, renewable fuels and bioenergy, carbon capture and storage, nuclear safety. This session is dedicated to the revamping of the plan which aims to align the SET Plan with the objectives of the European Green Deal by: a) renewing policy aims and targets for the development of innovative clean energy solutions and preparing for their deployment and b) pooling national and European research & innovation resources. This session happens in collaboration with and featuring representatives of DG Energy, DG Connect and CINEA.</p>			
				<p>Session co-organised and hosted by DG CONNECT</p> <p>9h30 - 11h00</p>	<p>Investors Forum</p> <p>14h00 - 15h00</p> <p>This session is going to focus on financing instruments that can support energy investments and will serve as a guide to the energy projects that are planning to continue their journey after the end of their testing period.</p>	<p>ETIP SNET Regional Workshop</p> <p>9h30 - 11h30</p> <p>The Workshop aim at presenting national and regional RD&I projects of significant added value addressing energy system integration issues, in line with the thematic priorities of the ETIP SNET Working Groups. In this particular occasion the countries included are Italy, Croatia, Slovenia, Greece, Romania, Bulgaria and Hungary. In addition, the workshop focuses on identifying unsolved RD&I topics and monitoring the implementation of RD&I activities at national and regional levels in Europe as well as ensuring consistency between national and European views. Finally, the workshop will focus on stimulating knowledge-sharing between stakeholders and among Member States and associated countries, to foster the efficient implementation of RD&I projects all over Europe.</p>
			<p>The Bridge Initiative: Business Models and R&I priorities</p> <p>15h30 - 17h00</p> <p>This session aims at defining common language frameworks around business model description and valuation. Given the fact that the EU is divided in different countries and levels of development, it is easy to understand why a common language framework is a top priority. Another focus of the session is identifying and evaluating existing and new or innovative business models from the various project demonstrations or use cases, as well as R&I priorities.</p>			
				<p>The ETIPs Forum</p> <p>11h00 - 12h30</p> <p>In this session, representatives of European Technology and Innovation Platforms (ETIPs) will discuss ways in which low-carbon energy technologies can assist the Green Deal, Renewables, Storage, as well as the human and social components of the energy transition.</p>	<p>Transport and e-mobility</p> <p>15h30 - 17h00</p>	

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<p>EU PROJECTS ZONE HUB 2 Hall 12</p>			<p>Europe's Digital Decade: Part One, Digitalization</p> <p>14h00 - 15h30</p> <p>The EU Commission is determined to make the union 'Fit for the Digital Age'. During this decade, the EU will strengthen its position in the digital arena and set standards. Data and Digitalization have a huge impact on the entire energy value chain, from generation to transport, distribution and consumption. It is therefore important to invest in projects that focus on the topic and provide us with feasible solutions for all our needs. The projects of this session are a good holistic example of what the EU Commission has in mind for the next 'digital' decade. And in this session they are going to narrate their stories.</p>	<p>Flexibility and Resilience</p> <p>9h30 - 11h30</p> <p>Despite the adversities (pandemic, war in Ukraine, high energy prices) the EU Commission not only kept, but raised the goal of the Green Deal. RepowerEU is the union's optimistic but feasible answer. To achieve the goal, we need solutions that will contribute to the flexibility and the resilience of the grid. The projects of this session are a good holistic example of what the EU Commission has in mind for the promotion of flexibility of the European grid. In local and paneuropean levels. And in this session they are going to narrate their stories.</p>	<p>Renewables and Storage</p> <p>14h00 - 15h30</p> <p>The EU Commission wants to accelerate the production of Renewable Energy Sources (RES) as well as their integration to the European Grid. To achieve that and in addition secure a stable and safe supply of power, consumption must match production. Energy Storage is one of the key components for the European Union to secure supply and decarbonization. The projects of this session are providing solutions for a green and secure energy grid. And in this session they are going to narrate their stories.</p>	<p>Call for Projects: The Digital Twin</p> <p>09h30 - 11h00</p> <p>This session is focusing on the development of a digital twin to improve management, operations and resilience of the EU electricity system in support to RePowerEU. The objective is to exchange knowledge between parties that will guide towards the development and testing of a modular digital twin of the grid. It will cover both the high-voltage and digital parts and be implementable at different scales, integrating both supply and demand-side.</p>
		<p>Europe's Digital Decade: Part Two, Data</p> <p>15h30 - 17h00</p> <p>The EU Commission is determined to make the union 'Fit for the Digital Age'. During this decade, the EU will strengthen its position in the digital arena and set standards. Data and Digitalization have a huge impact on the entire energy value chain, from generation to transport, distribution and consumption. It is therefore important to invest in projects that focus on the topic and provide us with feasible solutions for all our needs. The projects of this session are a good holistic example of what the EU Commission has in mind for the next 'digital' decade. And in this session they are going to narrate their stories.</p>	<p>Graphene Flagship</p> <p>11h30 - 11h45</p> <p>Funded by the European Commission in 2013, the Graphene Flagship has brought graphene innovation out of the lab and into commercial applications. In this session they present their findings.</p>	<p>Smart and Green Energy Communities</p> <p>15h30 - 17h00</p> <p>Traditional networks and services are made more efficient with the use of interoperable and digital solutions that connect not only smart cities and smart buildings, but smart energy communities as well. From a customer centric approach to the grid operation to Big Data in the service of buildings and citizens, this session demonstrates how technology can assist the energy communities. The projects of this session are providing solutions towards that direction. And in this session they are going to narrate their stories.</p>		
			<p>Connecting Europe Facility</p> <p>11h45 - 12h30</p> <p>Representatives from EU funded programmes such as LIFE and IPC are taking the stage to introduce programmes and their directives.</p>			

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