ENLIT EUROPE 2023

First Draft of Shareable conference Programme for Enlit Europe 2023. Programme subject to changes.

		28-Nov		29-Nov		30-Nov	
		AM	PM	AM	PM	AM	PM
Enlit23 SUMMIT Hall 7.3	**Evolve Stage** 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	**Opening Keynote** 10:00 to 12:00 Open to delegates only Format: Keynote presentations followed by a Panel: Energizing a quantum leap to an integrated decarbonised energy system	14:00-15:15 **Supply Chain Challenges**	09:30-10:45 **Skillset Challenges of a Transitioning Workforce**	14:00-15:15 **Future Proofing the Grid**	**Think Tank** 10:00-11:30 Focus TBC Fully-interactive workshop session. **Based on the outcomes of the session, an Enlit Report will be published in Q1 of 2024**	
			15:45-17:00 **CyberSecurity and Critical Infrastructure**	11:15-12:30 **The Net Zero Industry Act and Global Dependency**	15:45-17:00 **Power Market Design and Efficiencies**		
	Inspire Stage Come to the Inspire stage and 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		14:00-15:15 **Digital Strategies**	09:30-10:45 **Nuclear Renaissance**	14:00-15:15 **Gas and Hydrogen Strategies**		
			15:45-17:00 **SET Plan : Digitalisation and the Green Deal**	11:15-12:30 **Strategies for Enabling Flexibility**	15:45 - 17:00 **Offshore Energy Strategies**		
	Connect Networking Area		*Create meaningful connections with your peers in this dedicated area, including coffee and lunch*		*Exclusive Networking Reception*		

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Enlit23 Hubs Hall 7.3	**Decarbonisation Hub 1** - Framing the challenge - A horizontal analysis of the challenges of decarbonising the energy system, sector-by-sector, stage-by-stage.		**Decarbonising industrial activities**	**Responsible renewable energy**	**Four Ds Pitching Festival**	**The heating & cooling challenge**	
			Global emission reduction targets will be hard to achieve without industry slashing its emissions. It's a tall order but solutions are out there.	Decarbonisation will be powered by the deployment of renewable energy on a vast scale so how can this be done in a way that is socially responsible and sympathetic to the environment?	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.	With heating & cooling accounting for half of the final EU energy use, what approaches are needed to mitigate climate impact and boost energy security?	
			Optimising decarbonisation through sector coupling	**New infrastructure verses repurposing**	**Mobility - destination decarbonisation**	**Geothermal energy**	
			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.	Examples of adaptation of existing infrastructure, re-purposing and managed decommissioning and how to opt for the best alternative.	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.	What is the true potential of this largely untapped renewable energy resource and what is needed to tap into this reservoir?	
	Decarbonisation Hub 2 - Unpacking the technological solutions - a vertical sector deep dive into the projects, technologies and best practice.		**Carbon capture methods, applications and uses**	**Agile power generation**	**Gas turbines – pathway to decarbonisation**	**Fossil-Free France**	
			With the focus of CCUS now on industry, we look at the leading technologies and projects as well as direct air capture.	Whether using gas engines, GTs or hybrid, today's power plants and distributed generation must offer availability and flexibility as essential grid support.	How advanced are today's gas turbines in developing fuel flexibility and what does hydrogen-ready mean in practice?	Taking a look at the best examples of zero carbon projects in France and how the Olympics will be setting the example.	
			Decarbonising Heat : The Mammoth challenge	**Power plant decarbonisation**	**Nuclear - the transition enabler**	**Decarbonised transportation in action**	
			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 & waste heat recovery.	An focus on power infrastructure carbon and emission reduction needs and solutions, for today, the near future and the long term.	Find out what solutions the next generation of nuclear technology can offer in terms of modularity, flexibility, multi-purpose.	The best current and emerging technologies and solutions to decarbonise trucking, trains, planes & shipping.	
	Storage & Hydrogen Hub		**Energy Storage - An update on the policy and regulatory framework**	**Green & Clean Hydrogen - The technology**	**Energy Storage - The technology**	**TBC**	
			Hydrogen - An update on the policy and regulatory framework	**Green & Clean Hydrogen - The projects**	**Energy Storage - The projects**		
	Decentralisation hub In this Hub programme we will take a deep dive into the trends in decentralised generation and into the many solutions that can be used to increase flexibility and avoid certain grid investments. We will discuss the technologies and the business models behind them. Furthermore this programme will showcase innovations that contribute to stabilizing the grid.		**Trends in decentralised generation**	**Flex solutions for the Grid - Enabling Technologies**	**Flex solutions for the Grid - Grid innovation**	**Stabilising the Decentralised Grid**	
			In this session, we will explore the trends in prosumerism and decentralised generation and their impact on the grid. We will also discuss developments related to smart mini-grids and grid edge computing.	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, electrolysers and their impact on the stability of the grid.	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?	How do you control voltage frequency in an area with high penetration of distributed generation? And what role can decentralised production of molecules and energy islands play in stabilising the grid.	
					Four Ds Innovation Festival - Decentralisation		
					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 Decentralisation to a jury of innovation experts, with the winner announced at the Innovation Networking Reception.		
	Digitalisation Hub 1 - Smart Energy Infrastructure - 2 Digitalisation hubs with 2 different focus. This one will revolve around Digitalisation in Smart Energy Infrastructure, assisting the growing share of renewable energy, working towards the digital targets for 2030.		**DIGITOPIA** Co-hosted by Eurelectric	**Cybersecurity/Cyber resilience**	**Trends & Avant-Garde tech**	**AI & Machine Learning Robotics & Space Data**	
			To be announced	Risk and Challenges in a decentralised system. We'll look into the pathway to a more secure and resilient energy future.	DC Grid, Grid edge computing, Digital Twin, VPP, embedded IT, Generative AI, Visualisation, Interconnectors and Quantum Computing.	Deep dive into automation, virtual reality and artificial intelligence increasing accuracy and efficiency in a digital Energy world.	
				Digital Additive Manufacturing	**Four Ds Pitching Festival** (60mn)		
				Digital additive manufacturing supply chain panel. The importance of digitalization for the industrialization of additive manufacturing as well as potential hurdles that can prevent its full integration	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.		
Enlit23 Hubs Hall 7.2	**Democratisation Hub** With the cost of living crisis and strengthening concerns over the climate crisis, interest from consumers in how they manage their energy use has never been higher**. In** this programme, we explore how utilties and suppliers can tap into this and empower their customers to play their part in the energy transition.		**New business models supporting energy democratisation**	**Cost-of-living crisis: Tackling it from a policy and finance perspective - Panel**	**Community energy schemes: 'Yes in my back yard'**	**How do we engage investors in creating energy democracy? - Panel**	
			Showcasing some of the emerging buisness models, such as electricity-as-a-service offers, or "energy sharing" amongst neighbours.	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.	As we see tangiable 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.	The investyment community has a vital role to play in the democratisation of energy, so what are the business models for affordable energy, or for large-scale community energy/sustainable housing that will attract this all-important investment?	
			Customer engagement: Data-centric, user-centric or a bit of both? - Panel	**Energy poverty: How utilities can help vulnerable customers**	**Four Ds Innovation Festival - Democratisation**	**Diversity & democracy - Panel**	
			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 utilties achieve the level of engagement from their customers they are seeking?	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 peole 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.	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.	Establishing greater diversity is recognised as a vital part of successfully democratising energy. This panel discussion will explore various areas, such as how to positively embrace diversity and get it right, the dos and don'ts of diversity initiatives, and how a gender-mixed management will change your company	
	Digitalisation Hub 2 - Data - 2 Digitalisation hubs with 2 different focus. This one will revolve around Digitalisation and the extensive use of Data which comes with its set of challenges. we will expose here some best practice from around Europe.		**Interoperability**	**With a little help from IoT**	**Data Cloud services**	**TBC**	
			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.	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.	Latest cloud-based applications enabling new business models around demand response and help utilities improve customer service, manage outages and optimize grid performance. Latest cloud-based platforms to optimize operations and make better informed decisions about where to invest in new resources.		
			Behind the Meter	**Energy Data Analytics**	**Greening Data Centers**		
			Solutions, aggregation and optimisation. From smart meter to charging and towards home energy management.	Solutions to monitor and reduce grid downtime, predicting changes to fluctuating market demand in real time as well as balancing assets.	Assessing the energy-efficiency, climate-neutrality and overall sustainability of data centres, exploring reuse of waste energy such as heat and the use of more renewable energy sources, all with a view of becoming carbon-neutral by 2030.		
	EU Projects hub 1 Supported by the European commission, those 2 hubs gather selected projects that help promote the Energy Transition. Hub 1 focuses on mostly on strategy and policy.		**DIGITALIZATION** The Digital Innovation Hubs, Digital Twins, Policy, Cyber Security, Digital Passport, Digital Solutions to greening the sector and circular economy, the grid and digital platforms.	**Citizen Empowerment / Energy Communities** Energy Poverty and Just Transition, Education and Skills, Energy Hubs and Platforms, Crowdfunding, Micro grids, Islands, Residential Buildings, Energy Communities vs Micro Grids and Renewable Energy Communities.	**Hybrid Storage Power Generation** Hydrogen, Batteries, Thermal, Power to X, Electrical, Mechanical (e.g. Hydropower), New Materials.	**Competitiveness Sustainability / Circularity** Funding and Investments, Investor Dialogues (storage, grids, TSOs / DSOs, heating / cooling, consumers), Risk Finance (venture capitalists, eban), Invest EU, Innovation Fund.	
	EU Projects Hub 2 Focusing on the Technologies and the solutions.		**R&I 1** Research and Innovation contribution to the security / sovereignty of EU energy.	**R&I 2** Research and Innovation plus Industry for deployment	**SET Plan** The EU Commission plan and how it assists Green Deal / Energy Sector	**Synergies** • Energy / Robotics • Digital / Grid Materials • Mix of Energy	