Virtual Energy System online conference agenda

Time	Торіс	Speaker/s	Duratio
):30am	Welcome message	Joshua Visser, Stakeholder Engagement	5 mins
		workstream lead, Virtual Energy System, ESO	
):35am	Panel session: What do we mean by the "future GB Energy	Moderator:	40 mins
	System?"	- Norma Dove-Edwin, CIO, ESO	
	The energy system is evolving and will need to respond to many		
	changes whilst helping achieve net-zero. This session will outline	Panellists:	
	some of the context for the future energy system:	- Doug Cook, Head of Strategy, Ofgem	
	 How do we see the whole energy system operating? 	- Laura Sandys, Chair, Energy Digitalisation	
	 What role will digital play in monitoring real world 	Taskforce	
	challenges?	- Eric Brown, Chief Technology Officer, Energy	
	 What are the issues in a future energy system? 	Systems Catapult	
	Who will be the players of the future energy system?	- Niko Louvranos, Commercial Lead – Energy,	
	- What role will consumers play in this world?	5G, AI - Digital Catapult	
0:20am	What is the vision for the GB Virtual Energy System?	Matthew Wright, Head of Strategy & Regulation,	30 mins
	- What is a digital twin? And what do we mean by the Virtual	ESO	
	Energy System?		
	 How would the Virtual Energy System interact with the 	Carolina Tortora, Head of Digital Transformation	
	physical Energy system?	& Innovation Strategy, ESO	
	 How could the Virtual Energy System help GB achieve net zero? 		
	 How would the Virtual Energy System be developed? 		
	- How it will work as a whole system / across industries?		

10:50am	Virtual Coffee break	Everyone	15 mins
11:00am	What is a National Digital Twin, what can it deliver and how does it link with the GB Virtual Energy System? A National Digital Twin will enable us to make better decisions for	Alexandra Bolton, Executive Director, Centre for Digital Built Britain (CDBB)	20 mins
	 better outcomes. Find out about the National Digital Twin and how will enable sharing of data across organisations and sectors. Hear about the guiding principles (The "Gemini Principles") already proposed Find out about the technical work to connect digital twins Hear about how the socio-technical factors are vital to connecting digital twins Discuss how interactions between different industries can help drive Digital Twin innovations Explore how connected digital twins can help us solve some of the greatest challenges of our generation 	Alex Luck, Department for Business, Energy and Industrial Strategy	
11:20am	 How could regulation enable a Virtual Energy System? Hear what digitising the energy system could mean for energy network companies – and those that interface with them Discover how regulations might evolve to regulate shared digital assets including the GB Virtual Energy System Find out how the industry could incentivise digital investments over asset-based ones Discuss how risks associated with digital assets are being considered and could be accounted for 	Doug Cook, Head of Strategy, Ofgem	20 mins
11:40am	Shared Q&A on National Digital Twin and how regulation could enable a Virtual Energy System	 Alexandra Bolton, CDBB Alex Luck, BEIS Doug Cook, Ofgem 	20 mins

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12:00pm	Virtual Lunch	Everyone	1 hour
1:00pm	 Panel session: What would the benefits be of creating the GB Virtual Energy System? The Virtual Energy System needs to be beneficial to a multitude of players. This session will outline what benefits might be for: Asset owners and operators Safety and security of system, security of supply Financial savings and educational benefits Energy innovators Net Zero benefits Society as a whole 	 Moderator: Alec Waterhouse, Head of Modelling, Department for Business, Energy and Industrial Strategy Panellists: David Richardson, Head of Innovation, UKRI Alastair Martin, Chief Strategy Officer, Flexitricity Graham Campbell, Scottish Power Electricity Networks Simon Evans, Digital Energy Leader, Arup 	45 mins
1:45pm	 Why collaboration will deliver true value from the Virtual Energy System Building the GB Virtual Energy System will require industry collaboration at an unprecedented scale. Cooperation will be key for everyone to benefit from a true digital representation of the physical energy system. In this presentation, Hear how the Virtual Energy System plans to foster collaboration in the industry - and beyond Discover what lessons we can apply from other industry-wide collaborations Find out what other industries will help enable the Virtual Energy System 	Richard Dobson, Practice Manager - Data Systems, Energy Systems Taskforce	30 mins
2:15pm	Virtual Coffee break	Everyone	
2:30pm	Developing Use Cases for the Virtual Energy System	Nina Klein, Use-Case workstream co-lead, Virtual Energy System, ESO	20 mins

	 As the GB Energy System becomes more interconnected, new Use Cases are being developed - as part of the Digital Twin programme to address market changes. Hear about plans to improve the ESO's dispatcher Learn more about how the ESO plans to understand more about consumer dynamics Discover what the ESO is planning to do to help model future network changes Hear how the Virtual Energy System will connect different energy digital twin use cases together 		
2:50pm	 A common framework – what needs to be defined for the Virtual Energy System to start to develop? The GB Virtual Energy System plans to foster innovation and development - not stifle it. But it's important that different pieces of the Digital Twin are compatible and adhere to a Common Framework. During this presentation, hear about: Why a common framework is needed What the framework will cover What some of the technical principles are likely to be When a draft framework can be expected 	Jonathan Barcroft, "Common Framework" workstream lead, Virtual Energy System, ESO & Simon Evans, Digital Energy Leader, Arup	20 mins
3:10pm	 Getting involved in the Virtual Energy System The success of the GB Virtual Energy System will rely heavily on getting everyone involved. We want your input, feedback and engagement on this programme. We will launch our initial input survey for you to comment on the overall programme Hear how you can get actively involved in the Virtual Energy System going forward 	Joshua Visser, Stakeholder Engagement workstream lead, Virtual Energy System, ESO	20 mins



3:30pm	Conference closing address	Fintan Slye, Executive Director, ESO	15 mins
4:00pm	Opm Conference close		