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Affiliation	School of Engineering, Cardiff University, UK	
<h2 style="color: red;">Invited Plenary Lecture</h2>		
Presentation Title	Peer to Peer Energy Trading to Facilitate the Net Zero Transition	
Abstract (Approximately 200 words)	<p>137 countries have committed to carbon neutrality to tackle the global challenge of climate change. Energy systems will play a crucial enabling role for a green carbon neutral future. However, the Energy Trilemma presents many complex interconnected challenges. Peer-to-Peer (P2P) energy trading represents direct energy sharing and trading between peers, where energy from small-scale Distributed Energy Resources is shared or traded among local energy prosumers and consumers to achieve local balancing. This talk will introduce the background of P2P, and its latest progress on research and development. The concept, key elements and implementation technologies of P2P will be introduced.</p>	
Biographical Sketch (Approximately 200 words)	<p>Jianzhong Wu is Professor of Multi-Vector Energy Systems and Head of School of Engineering, Cardiff University, UK. He is co-Editor-in-Chief of Applied Energy. He researches on Smart Grid and Multi-Vector Energy Systems. He is one of the first group of researchers who initiated and established the Multi-Energy Systems and Peer-to-Peer Energy Trading research. He is Co-Director of UK Energy Research Centre; Member of the BEIS UK Taxonomy Energy Working Group; Co-Chair of INCOSE UK Energy Systems Interest Group; and member-at-large of the IEEE Technical Committee on Carbon Neutrality. He is Fellow of Energy Institute and the Learned Society of Wales.</p>	