


CONFERENCE WEBSITE

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14th International Green Energy Conference

(IGEC-XIV)

July 4-8, 2022 | Virtual

Name	Neil J Hewitt	
Affiliation	Belfast School of Architecture and the Built Environment, Centre for Sustainable Technologies, Ulster University	
Invited Plenary Lecture		
Presentation Title	Geothermal Heat Pumps for Space and Industrial Heating Applications	
Abstract (Approximately 200 words)	Geothermal energy has resurfaced for Net-Zero Heating ambitions. While areas are blessed with high temperatures, the techno-economics for drilling in lower temperature heat sources is around 800m depth. Therefore, for these lower temperatures, but useful heat resources, the roles of heat pumps in meeting the needs for a range of space and industrial heating roles will be examined in terms of global best practice in both research and deployment. Some indications of risk, economics and planning/licencing aspects will also be given for both heat extraction at depths and the role of thermal storage in managing variable, non-dispatchable renewable electricity.	
Biographical Sketch (Approximately 200 words)	Professor Neil J Hewitt is Ulster University's Chair in Energy and is Head of School, Belfast School of Architecture and Built Environment as well Director of the Centre for Sustainable Technologies. He is a World Renewable Energy Network Lifetime Pioneer and has attracted over £22M in external funding including EPSRC, EU and international sources. With over 140 publications ranging from large scale power generation to heat pumps and demand side management, he has graduated 17 PhD students.	