

Energy Systems Digitalisation and Cyber Security Workshop

1st and 2nd November 2021

Supported by Newcastle Universities International Partnerships Seed Funding		
Energy Systems Digitalisation 1 st November		
8.00-8.15	Welcome and opening remarks Introduction to the Centre for Energy	Dr Zoya Pourmirza (Newcastle University) Dr Sara Walker (Newcastle University)
8.15-8.30	Digital Energy initiatives for energy sector in Australia	Professor Ariel Liebman (Monash University, Australia)
8.30-8.45	The digitisation journey of the energy sector, The Danish use case	Dr Razgar Ebrahimi (Technical University of Denmark)
8.45-9.00	Data governance challenges emerging from energy system digitalisation in the UK	Emily Judson (University of Exeter)
9.00-9.15	Delivering a modern digitalised energy system	Jake Verma (Energy Systems Catapult)
9.15-9.30	Break- 15 mins	
9.30-9.45	Predicting the impact of climate change on performance of energy systems using machine learning algorithms	Dr Yousef Akhlaghi (Newcastle University)
9.45-10.30	Breakout room discussion <ul style="list-style-type: none"> ▪ Top 5 Challenges of digitalisation of energy systems (15 minutes) ▪ Impact of digitalisation of energy by 2035 & 2050 (15 minutes) ▪ Challenges of retrofitting cyber layer over buildings and energy network (15 minutes) 	
10.30-10.45	Closing discussion	Dr Zoya Pourmirza (Newcastle University)

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Cyber Security for Energy Systems		
2 nd November		
8.00-8.15	Welcome and opening remarks Introduction to the Centre for Energy	Dr Zoya Pourmirza (Newcastle University) Dr Sara Walker (Newcastle University)
8.15-8.30	Are we prepared to fend off cyber-attack in the energy sector?	Dr Zoya Pourmirza (Newcastle University)
8.30-8.45	Cyber security research for residential demand response in smart grids	Dr Carsten Rudolph (Monash University, Australia)
8.45-9.00	The SNIPPER project: Secure ad privacy-friendly peer-to-peer electricity trading	Dr Mustafa Asan Mustafa (The University of Manchester and KU Leuven, Belgium)
9.00-9.15	ICS cyber security in digital transformation	Parisa Akaber (Siemens)
9.15-9.30	Break	
9.30-9.45	Hoping for the best, but expecting the worst: how to talk better about security of emerging technologies?	Dr Ola Michalec (University of Bristol)
9.45-10.30	Breakout room discussion <ul style="list-style-type: none"> ▪ Top 5 Challenges of cyber security in energy systems (15 minutes) ▪ Lessons learned from other area research disciplines(15 minutes) ▪ Considerations to ensure cyber security when retrofitting a system in energy networks (15 minutes) 	
10.30-10.45	Closing and remarks	Dr Zoya Pourmirza (Newcastle University)

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