

Wed, 11th Oct 2023
6.00pm - 9.00pm

FREE ENTRY
Central London Network

Unlocking the Benefits of Digitalisation for Energy Transition

Digitalisation is essential to manage net zero transition efficiently, securely, and affordably. Rod Buchanan, Chief Technology Officer of Amp X, will discuss the challenges and solutions to energy system digitalisation.

As energy decarbonisation accelerates, more intermittent renewables generation enters the grid causing instability which must be solved by novel methods of grid balancing or through prohibitively expensive grid reinforcement. Increasing decentralisation results from the rapid adoption of consumer energy resources (CERs, i.e. EVs, rooftop PVs, battery storage) by consumers globally. All these resources need to be actively managed and controlled in order to minimise the instability and maximise the flexibility of the grid. Legacy grid infrastructure is poorly suited to cope with this distributed and decentralised grid, giving rise to multi-way power flows, voltage instability, lack of inertia, and lack of resilience.

Meanwhile, consumers want to have visibility of their energy consumption, and to be able to manage their energy bills/carbon footprint. This means they need to be able to navigate the complexity of their home ecosystem through a single user-centric interface across different energy devices, ensuring their lifestyle preferences around home energy usage are catered for, whilst still retaining control.

Rod Buchanan, CTO of Amp X, will explain how the company's unique, data-driven platform offers a holistic approach to address the challenges of energy transition by enabling a fully decarbonized and digitalized grid for both operators and retailers.



Venue
IET Savoy Place

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Book your place at
<https://localevents.theiet.org/a39c95>