

Panel Discussion – Cyber Security, AI, and Advanced Telecommunications

CIGRE UK Technical Conference 2025



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For power system expertise

Panel Discussion: Cyber Security, AI, and Advanced Telecommunications



Chair



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Panellists



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National Grid Electricity Transmission

Introduction

- We are seeing an ever-increasing need for technology to facility the energy transition
- A discussion to highlight the innovations and impact of such technologies:
 - Cyber Security
 - AI
 - Advancements in telecommunications on the electrification industry.
 - etc
- What are the impacts of such technologies on the energy transition now and in the future.
- As we shift away from fossil fuel based conventional power systems. How are such advancements able to supplement a rapid growth in renewable energy considering the number of Engineers and skill sets we have available.

Panel Discussion:
Cyber Security, AI, and Advanced Telecommunications



How can AI and advanced data analytics
transform power systems to accelerate
progress toward net zero?

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What role will cybersecurity play in safeguarding increasingly digital and interconnected energy networks?

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What are the biggest technical and regulatory roadblocks to deploying these technologies at scale?

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How do we balance innovation with
resilience—ensuring reliability while adopting
AI, data-driven insights, and advanced
telecoms?

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Looking ahead, what emerging trends or technologies will define the future of power systems and net zero delivery?



Thank You!

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