

2017 LCNI Programme

Day 1 Wednesday 6 December

08.30 – 09.20	Registration, Refreshments and Exhibition
09.30 – 09.40	Welcome and Introduction: David Smith (ENA)
09.40 – 09.50	Headline Sponsor Welcome and Introduction: Robert Symons (WPD)
09.50 – 10.30	Keynote Speeches – Ironbridge Suite
09.55 – 10.10	Jonathan Brearley (Ofgem)
10.10 – 10.30	Mike Crone (Jaguar Landrover)
10.35 – 12.00	Plenary Session 1 – Ironbridge Suite
10.35 – 11.35	Creating Whole Energy Thinking: Roger Hey (WPD) Jim Cardwell (NPg) Chris Clarke (WWU) Dr Sara Walker (Newcastle University) Louise Van Rensburg (Ofgem)
11.35 – 12.00	Industry Strategies: Introduction by David Smith (ENA) Chris Goodhand (NPG) Tasmin Kashap (NGGT) Q&A
12.00 – 13.00	Refreshments and Exhibition
12.00 – 12.50	Exhibition Theatre 1: Keele University – Academic Sponsor: Data Networks for delivery of Smart Grids: Prof. David Healy
12.00 – 12.50	Exhibition Theatre 2: SSID the Mini Mole: Watson Peat (SPEN) & Gerhard Völkel (Tracto-Technik) Streetworks – Mini Mole and Robotics Element 4: Richard Mason (SGN)
12.00 – 14.50	Gas Collaboration Zone, Exhibition Hall: Gas Showcase
13.00 – 13.45	Plenary Session 2 – Ironbridge Suite
13.00 – 13.45	Linking Network Innovation with Wider Government Initiatives: Chair: Stewart Reid (SSE) Stephen Parker (NGN) Philip New (Catapult) David Capper (BEIS) Jon Saltmarsh (BEIS) Q&A
13.10 – 14.20	Exhibition Theatre 2: Schneider: How Digital Transformation can aid DNO-DSO: Jean Yves Bodin
13.50 – 14.50	Industry Collaboration Sessions (Running simultaneously)
13.50 – 14.50 Ironbridge Suite	Open Networks Project Review: Chair: Nigel Turvey (WPD) Sotiris Georgiopoulos (UKPN) Mark Drye (NPG) Stewart Reid (SSE) Paul McGimpsey (SPEN) Beth Winter (WWU) Georgina Penfold (Energy Storage Network) Q&A
13.50 – 14.50 Atcham Suite	Gas in the Future Energy System: Chair: Stuart Easterbrook (Cadent) Tom Collins (Worcester Bosch) Jamie Speirs (Imperial College London) Q&A
14.50 – 15.15	Refreshments and Exhibition
15.20 – 16.40	Gas Collaboration Zone, Exhibition Hall: IGEM Affiliates Networking – Meet the teams (appointment only)
15.20 – 16.40	Breakout Session 1 (Running simultaneously)

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<p>Newport Suite Sponsored by SGN</p> <p>Pattingham Suite</p> <p>Beckbury Suite Sponsored by CGI</p>	<p>1.1 Storage for Electricity and Gas Networks (Hydrogen/Batteries etc) Chair: Angus McIntosh (SGN) InTEGRel: Keith Owen (NGN) DESC: Ismini Dimitriadou (UKPN) NINES & NTVV Legacy: Alex Howison (SSEN) Q&A</p> <p>1.2 Streetworks and Underground Utilities Chair: Ian Dunston (WWU) ART: Kirsty McDermott (NGGT) & Willem Vos (Halfwave) Excavation Scanner: Aimee Dunn (CADENT) Rapid Steel Cutter: Paul Breakey (WWU) Q&A</p> <p>1.3 Active Network and Demand Side Response Paul Jewell (WPD) Freedom: Faithful Chanda (WPD) & Oliver Lancaster (WWU) Entire, Sunshine Tariff, FALCON Experience of DSR Trials: Matt Watson (WPD) Power Potential: A New Market for Reactive Power: Dr. Biljana Stojkowska (NGSO) & Dr. Ali Ahmadi (UKPN) Q&A</p>
<p>Coalport Suite</p> <p>Atcham Suite Sponsored by EA Technology</p> <p>Wenlock Suite</p> <p>Ironbridge Suite</p> <p>Exhibition Theatre 1</p>	<p>1.4 Low Carbon Technology - Distribution Generation Chair: Paul Turner (ENW) EFCC: The Future of Frequency Control: Lilian Macleod (NG SO) SAVE: Charlie Edwards (SSEN) Smart Street: Ben Ingham (ENW) Q&A</p> <p>1.5 Innovation in Electricity Network Design Chair: Minimising Electricity System Congestion Costs: Ronny Grimaldo (NG SO) Architecture of Tools for Load Scenarios (Atlas): Dr Rita Shaw (ENW) Open LV: Learning to date: Mark Dale (WPD) & Richard Potter EA Technology Q&A</p> <p>1.6 Reliability, Safety and Resilience Chair: Fault Level Monitoring: Martin Lyster (SSEN) VISOR: GB wide Monitoring to improve visibility of dynamic system behaviour and enhance network resilience: Chris Halliday (SPEN) Light Tracker & Network Damage Reporter: Bill Barrett (SSEN) & Alan McMorran (OGS) Q&A</p> <p>1.7 Storage and Transport Chair: Stewart Reid (SSEN) Solar Storage: Learning from Integrated Battery Trials: Jenny Woodruff (WPD) & Christie Sims (British Solar Renewables) EV Buses and Taxis: Thazi Edwards (UKPN) Smart EV A new Standard managed electric vehicle charging Richard Hartshorn (SSEN) & Daniel Hollingworth (EA Technology) Q&A</p> <p>1.8 Emergency & Incident Management Chair: Nicola Evans (WWU) LGSE: Adrian Symons (WWU) Storm Recovery: Our Experience: Robin Tutcher (WPD) Q&A</p>

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16.40 – 16.45	End of Day 1 – Refreshments and Exhibition
16.45 – 17.30	Complimentary Coaches to Conference Hotels
18.50 – 19.30	Complimentary Coaches depart Conference Hotels for the Telford International Centre
19.00 – 19.30	Pre-Dinner Drinks Reception (Ticketed event)
20.00 – 00.00	Conference Gala Dinner (Ticketed event)
00.10 – 00.30	Complimentary Coaches depart the Telford International Centre for Conference Hotels

Day 2 Thursday 7 December

08.30 – 09.30	Registration, Refreshments and Exhibition
09.30 – 12.50	Gas Collaboration Zone, Exhibition Hall: Gas Showcase
09.30 – 10.50	Breakout Session 2 (running simultaneously)
Atcham Suite Sponsored by EA Technology	<p>2.1 Low Carbon Transport Chair: Huw Sullivan (Cadent) Leyland (Cadent) and City CNG: Jamie McMaster (NGN) Richard Cook (Cadent) Electric Vehicles: Part of the system: Iain Miller (NPG) Electric Nation: EV Connections and Their Network Effects: Mark Dale (WPD) & Nick Storer (EA Technology) Q&A</p>
Coalport Suite	<p>2.2 Smarter Systems for Gas Chair: Sarah Williams (WWU) Project CLOCC: Anne-Marie Liszczyk (NGGT) Enhancing Traffic Management with 3D Planning: Stephen Long (CADENT) Smart Pressure Sensor: Martyn Pallant (WWU) Q&A</p>
Pattingham Suite	<p>2.3 Active Network Management and Asset Monitoring Chair: Quentin Mabbutt (National Grid) GRAID: David Hardman (NGGT) & Wez Little (Synthotech) RAINMAN: Fiona Irwin (SSEN) & Paul Milburn (EkkoSense) FITNESS: The story so far: Christopher Patterson (SPEN) (Q&A)</p>
Newport Suite Sponsored by SGN	<p>2.4 Low Carbon Technology – Decarbonising Gas Chair: Andy Lewis (Cadent) 100% Hydrogen: Mark Wheeldon (SGN) HyDeploy & Bio SNG Commercial: Navdeep Kahlon (CADENT) H21: Adam Madgett & Chris Barron (NGN) Q&A</p>
Exhibition Theatre 1	<p>2.5 Gas Network Technology Chair: John Pickering (NGN) System Two Assess and Seal robot: John Pickering & Wez Little (NGN) Robotics Roadworks: Oliver Machan (SGN)</p>
Wenlock Suite	<p>2.6 Innovation in Improving Electricity Losses Chair: Paul Jewell (WPD) ENA Technical Losses WG: Impact of Low Carbon Transition on Losses: Jim McOmish (SPEN) & Gillian Williamson (WSP) Losses Investigations and Voltage System Reduction: Understanding and Improving Losses: Chris Harrap (WPD) LV Network Losses: Frank Clifton (SSEN) & Dr. Jorge Acosta (TNEI) Q&A</p>

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Exhibition Theatre 2	<p>2.7 The Big Gas Challenge (WWU/CADENT/NGN) Tasmin Kashap (NGGT) Lucy Mason (WWU) Martin Lord (Cadent) Wayne Smith (NGN)</p>
Beckbury Suite Sponsored by CGI	<p>2.8 Views from Academia Chair: Randolph Brazier (ENA) Redesigning Markets for Ancillary Services: Prof. Michael Pollitt (Uni. of Cambridge) Risks and Opportunities in Decarbonising Heat and Transport: Keith Bell (Uni.of Strathclyde) Energy Systems Integration research: Challenges and opportunities: Dr Sara Walker (Newcastle University) Benefits of Flexibility in the UK power system by 2030: (Imperial College London)</p>
10.50 – 11.25	Refreshments and Exhibition
11.00 – 11.20	Exhibition Theatre 1: Measuring Benefits from Innovation (NGGT/PWC)
11.00 – 11.20	Exhibition Theatre 2: Fugro: Optimised Management of Substations Using 3D Real World Models: Michiel Prak
11.30 – 12.50	Breakout Session 3 (running simultaneously)
Exhibition Theatre 2	<p>3.1 Overground and Underground Utilities Chair: Scoping the DSO Future: Dr Liz Sidebotham (NPG) Angle – DC: The UK's first DC link using existing distribution network assets: Kevin Smith (SPEN) NeSTS: Tim Sammon (SSEN) Q&A</p>
Beckbury Suite Sponsored by CGI	<p>3.2 Cyber Security and Big Data Chair: Oliver Machan (SGN) Artificial Intelligence: Richard Waine (NGGT) & Jan Mohelman (Tractable) Time Series Data, Nexus, CIM :Big Data and its Use: Jenny Woodruff (WPD) Leveraging Big Data for Improved Energy Forecasting: Kevin Tilley (NG SO) Q&A</p>
Atcham Suite Sponsored by EA Technology	<p>3.3 Energy System Modelling & Future Planning Chair: Roger Hey (WPD) Network Equilibrium, FlexDGrid, Carbon Tracing: Advances in System Modelling: Jonathan Berry (WPD) Redefining Failure: Barbara Baffoe-Bonnie & Craig Mauelshagen (NGN) Real Time Networks: Alexander Webb (SGN) (Q&A)</p>
Pattingham Suite	<p>3.4 Active Network Management and Asset Monitoring Chair : Tom Neal (NGGT) KASM: Alex Jakeman (UKPN) & Dr Hsiao-Dong Chiang (Big Wood Systems) Celsius: Damien Coyle (ENW) Dumfries and Galloway Smart Zone: Gerard Boyd (SPEN) Pipeline Depth of Cover: Paul Ogden (NGGT) & Daniel Finley (ROSEN)</p>

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Wenlock Suite	<p>3.5 Reducing Emissions Chair: Adam Madgett (NGN) KESS: Ian Marshall (WWU) Low Carbon Preheat: Adam Sadler (NGN) Selective Catalytic Reduction: Adrian Jones (Costain) & Philip Smith (PESL) Q&A</p>
Newport Suite Sponsored by SGN	<p>3.6 Breakthroughs in Network Technology Chair: Gus McIntosh (SGN) Healthy and Safety Monitor: Richard Hynes-Cooper & Simon Twigg (NGN) TRALC3/TermITE -Transformer ratings enhancements: Gordon Wilson (NGTO) How MIDEL 7131 understanding can reduce costs and benefit your customers: James Buckley (NGTO) Smart Paints: Nancy Thomson (SGN)</p>
Exhibition Theatre 1	<p>3.7 Cables Chair: TOUCAN – Using to thermography to locate LV underground cable faults: Kevin Dennis & Phil Clarke (SSEN) SUSCABLE2: David Ruthven (SPEN) & Gary Stevens (GnoSys) Self-Healing Cables: Dr.Chris Goodhand (NPg) & Maxi Faridi (UKPN) Q&A</p>
Coalport Suite	<p>3.8 Modelling, Charging and Billing Chair: Huw Sullivan (Cadent) Flexible Energy Simulator: Chris Clarke (WWU) Future Billing Methodology: David Chalmers (Cadent) Value of Lost Load: Kate Quigley (ENWL) Q&A</p>
12.50 – 13.50	Refreshments and Exhibition
13.00- 13.45	Exhibition Theatre 1: Keele University – Academic Sponsor: Research Challenges in IoT and Data Analytics for Smart Energy: Professor Zhong Fan
13.00 – 13.45	Exhibition Theatre 2: Quality of Supply:NIA Portfolio: Peter Lang (UKPN) Foresight LV Cable Management: Rebecca Kelly (NPG)
13.50 – 15.10	Gas Collaboration Zone, Exhibition Hall: Gas Showcase
13.50 – 15.10	Breakout session 4 (running simultaneously)

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Newport Suite Sponsored by SGN	<p>4.1 Innovation Strategy Consultations Chair: Randolph Brazier (ENA) & Matt Hindle (ENA) Presentation of Draft Strategies - Tamsin Kashap (NGGT) & Chris Goodhand (NPg) Additional Panel Members: Lucy Mason (WWU) Adam Madgett (NGN) Ian Cooper (UKPN) Mark Herring (NGSO) Q&A</p>
Pattingham Suite	<p>4.2 Reliability, Safety and Resilience Chair: Digital Substation: Virtual Site Acceptance Testing & Training: Thomas Charton (NGTO) Active Resilience: Iain Miller (NPG) Network Constraint Early Warning System: Initial Smart Meter Data Integration Platform: Jim Whyte & Ciaran Higgins (SPEN) Q&A</p>
Atcham Suite Sponsored by EA Technology	<p>4.3 Dealing with Faults Chair: Paul Turner (ENW) Respond: Paul Marshall (ENW) Powerful-CB: Laura Daniels (UKPN) & Fault Forecasting: Caroline Acton (Met Office) SINE Post: Fault Location through Power Quality Measurements: Mourad Khaddoumi (SPEN) Q&A</p>
Wenlock Suite	<p>4.4 Breakthroughs in Network Technology Chair: World-first use of g3 as low-carbon alternative to SF6 :Mark Waldron (NGTO) Improved Statistical Ratings, Superconducting Cables, SF6 Alternatives Developments and Advancements of Existing Assets: Yiangos Mavrocostanti (WPD) LV Connect and Manage Connection and Control of LCTs: Mikhail Prokhnich (WPD) & Samuel Jupe (Nortech Management Ltd)</p>
Beckbury Suite Sponsored by CGI	<p>4.5 Active Network Management and Demand Side Response Chair: Nigel Turvey (WPD) Alternative Connections & ANM Roll Out: Steven Gough (WPD) Flexible Connections Gavin Stewart (SSEN) Domestic DSR: The Meter and Beyond: Jim Cardwell (NPg) Energywise: Dr Giulia Privitera (UKPN)</p>
Coalport Suite	<p>4.6 Overhead Line Optimisation Chair: Jonathan Berry (WPD) Airborne Inspections: Advancements in Network Inspections and Safety: James Bennett (WPD) Lidar: Stewart Reid & Matthew Thomas (SSEN) Wind exposed overhead lines research to extend asset life: Jon Hennah (NGTO) Q&A</p>
13.50 – 15.10	<p>Exhibition Theatre 1: Network Integration of Electric Vehicles: Intro and Chair:Mark Dale (WPD): Power Quality & Network EV Emissions: Simon Ebdon (RINA), Network Monitoring and EV Detection for Network Operators: Paul Beck (Lucy GridKey) & Chris Hole (TTP) Q&A</p>
13.50 – 15.10	<p>Exhibition Theatre 2: Engaging communities in network innovation: Merlin Hyman (REGEN) Our transition to Distribution System Operator: Lynne McDonald (UKPN) & James Johnston (Open Utility)</p>
15.30 – 15.45	<p>Complimentary shuttle buses depart to Telford Rail Station</p>

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