### Utility Week Live

### COLLABORATIVE INNOVATION BROUGHT TO LIFE

17-18 MAY 2022, NEC BIRMINGHAM

#### **VISITOR BROCHURE**

GAIN UNMISSABLE INSPIRATION AND FRESH IDEAS FROM SECTOR LEADERS AND TRANSFORMATIONAL COMPANIES ACROSS TWO DAYS OF UNRIVALED CONTENT AND SOLUTION SHOWCASES

#### 100 +10 150 +**SCAN FOR YOUR** Incredible speakers 'Challenge' themes, Exhibitors showcasing Action-packed theatres packed with live content, from across the being addressed with innovative products aimed at solving utilities energy, water, and practical, hands-on and solutions biggest challenges gas industries content Headline sponsor: Brought to you by: **UtilityWeek** Capita **UtilityWeek INNOVATE** OR VISIT: UTILITYWEEKLIVE.CO.UK utilityweeklive.co.uk

\* T&C's apply

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## **INTRODUCING UWL22**

#### COLLABORATIVE INNOVATION BROUGHT TO LIFE

Do you need to know the latest trends in utilities? Do you aspire to solve key business challenges via cutting edge innovation? Are you fed up with staring into a computer screen and talking in two dimensions?

"At Utility Week Live, we believe that unlocking collaborative innovation is the key to solving the many pressing challenges facing utilities today – from the overarching need to lead the transition to net zero to the granular, on-the-ground challenges of tackling operational efficiency, creating flexible and smart infrastructure that is fit for the future, and delivering best-in-class customer service."

Ellen Bennett, portfolio director, Utility Week



17 - 18 May 2022 NEC Birmingham Then the unmissable Utility Week Live 2022 is for you. With **five action-packed theatres, three workshop spaces, and a dedicated networking hub**, the content programme is bursting with actionable insights that will transform the way you do business. More than 100 of the industry's most effective technical and operational leaders are ready to share their innovations and experiences with you, over **150 solution providers** will showcase their products and services, and **3,000** of your peers are waiting to see you in-person again.

Don't miss it! FREE to attend for utilities and Tier 1 contractors. **Register today!** 

**UtilityWeek** 



### A SHOW EXPERIENCE DESIGNED TO HELP YOU:



#### MAKE CONNECTIONS

Network with utilities biggest players, share your experiences, and celebrate at the industry's biggest reunion



#### DISCOVER INNOVATION

Access brand-new ideas and be inspired by sector leaders, and 15O+ solution providers, to stay on top of your ever-changing industry



#### SPARK IDEAS AND ACTIONS

Solve challenges and take away practical advice and ideas from our biggest, and most comprehensive content programme ever



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## **KEYNOTE PROGRAMME**

#### ● 10:45-12.00 ♥ KEYNOTE STAGE – DAY 1

#### **CLIMATE CRISIS PANEL: ADAPTATION AND RESILIENCE**

While the international focus has been squarely on reducing carbon emissions to meet net zero targets, the fact remains that climate change is already happening – and will continue. The UK has fallen behind on adapting to the changing climate – and this brings stark risks to the natural environment, health, homes, essential infrastructure and the economy. Greater resilience is required to mitigate the effects of climate change; improve biodiversity; and respond to extreme weather conditions and water scarcity.

To achieve true resilience, meaningful adaptation action is needed now. In this session we will explore utilities' approaches to adaptation planning and ask how they are building resilience to respond to the impacts of climate change already present, as well as preparing for future impacts.

CHAIR: James Wallin, Editor, Utility Week

PANEL:

Ruth Waters, Director of Evidence, Natural England Keith Haslett, Water Director, Northumbrian Water James Heath, Chief Executive, National Infrastructure Commission Duncan Burt, Chief Sustainability Officer, National Grid KEYNOTE STAGE DAY 1 17 MAY DELIVERING NET ZERO

## **KEYNOTE PROGRAMME – DAY 1**

#### ④ 12.30-13.45 ♀ KEYNOTE STAGE – DAY 1

### **KEYNOTE PLENARY: THE CHANGING CUSTOMER OF THE FUTURE**

Net zero and carbon reduction are now mainstream concerns – almost all customers care about the environment and agree that action is needed. Customers are looking to organisations to demonstrate credible commitments to reducing carbon in their operations and business practices and to help them make better choices. Utilities cannot deliver on net zero ambitions in isolation – customers want to be part of the journey. This session will explore how we can change behaviours to reduce consumption of both water and energy and how companies and customers can work together to drive down carbon – engaging customers on their path to net zero and accelerating change.

CHAIR: James Wallin, Editor, Utility Week

Introductory scene setting talk: What do customers want? Jo Causon, Chief Executive, Institute of Customer Service

#### **RESPONDING PANEL:**

Andrew Schein, Behaviour Insights Team, Cabinet Office Alison Jaap, Customer Care Director, OVO

Jennifer Felton, Head of customer and employee communications and digital services, United Utilities

#### ④14.15-14.55 ♀ KEYNOTE STAGE – DAY 1

### THE ROLE OF THE CUSTOMER AND SUPPLIER IN THE ENERGY TRANSITION

Customers are vital to the success of the energy transition for a just and successful transition customers need to move from being passive bill payers to active participants. In this fireside chat Katy and Ashleye will explore -

- Supporting customers on a just transition levelling up in an energy crisis is it possible?
- Creating confident customers ready for the energy transition
- How to remove barriers to participation

#### PANEL:

Katy King, Deputy Director, Nesta

**Ashleye Gunn,** Independent Consultant and on the awarding panel for **Ofgem's** RIIO Stakeholder Engagement and Consumer Vulnerability Incentive

## **KEYNOTE PROGRAMME – DAY 1**

#### ④ 15.15-16.15 ♀ KEYNOTE STAGE – DAY 1

#### **KEYNOTE PLENARY: DELIVERING ON NET ZERO**

Individually and collectively, utilities need to take control of their own net zero journey. This session will bring insight and inspiration to those aiming to up the pace and ambition of their transition to a more sustainable future – looking at what immediate actions companies are taking to reduce emissions, decarbonise our electricity supply and remove or offset their residual emissions – to deliver on net zero targets.

#### CHAIR: James Wallin, Editor, Utility Week

PANEL:

Rachel Fletcher, Director of Economic and Regulation, Octopus Energy

Matt Crabtree, Director of Engineering, South West Water

Andrea McCormick, Head of Sustainability, OVO

Matt Hindle, Head of Net Zero and Sustainability, Wales and West

Hannah Winter, Head of Responsible Business, Capita

#### ④ 16.30-17.00 ♀ KEYNOTE STAGE – DAY 1

#### QUIZ - INSTITUTE OF WATER 'MASTERMIND' SKILLS CHALLENGE QUIZ

In 2022, the Institute of Water will be leading the search for the UK's most talented, ambitious and knowledgeable apprentice or new entrant to the water market. Teams will engage in a series of time trial across the show floor, with the top teams then moving forward to the 'Mastermind' quiz, where their knowledge of the water industry will be put to the test, with the winner being crowned the Skills Champion 2022.

#### HOST: Ben Tam, Isle Utilities & Institute of Water



## **KEYNOTE PROGRAMME**

#### ④ 10.00-10.45 ♀ KEYNOTE STAGE – DAY 2

#### **KEYNOTE PANEL: REGULATION FOR INNOVATION**

The regulators in both energy and water are keen to support the innovation agenda – each run dedicated innovation funds, for example, and regulatory regimes for both markets demand evidence of innovation. But critics suggest that regulation, being risk averse by nature, is the enemy of innovation. Can the two sit happily together? And how can regulators create frameworks that genuinely support innovation?

This keynote session includes presentations from both regulators and a live interview exploring:

- How regulators can create a framework that encourages and accelerates innovation
- How regulators can allow room for failure while protecting the interests of customers and other stakeholders
- The creation of headroom for innovation and opportunities for a pan utility approach
- How to engage the industry to deliver collaborative innovation
- How regulators will collaborate with each other for a co-ordinated approach to optimisation of the innovation landscape
- Role of regulated innovation funding

CHAIR: James Wallin, Editor, Utility Week

KEYNOTE ADDRESS: John Russell, Director of Strategy Planning, Ofwat

KEYNOTE ADDRESS: Jourdan Edwards, Interim Deputy Director - Onshore Networks, Ofgem

KEYNOTE STAGE DAY **18 MAY** CREATING THE CONDITIONS FOR INNOVATION

## **KEYNOTE PROGRAMME – DAY 2**

#### ④ 11.15-12.15 ♀ KEYNOTE STAGE – DAY 2

#### **CREATING THE CONDITIONS FOR INNOVATION**

Innovation takes more than a moment of inspiration. This session will explore the many factors that need to come together, including culture, diversity, capabilities, technologies and more to create the conditions for sustained and meaningful collaboration and innovation.

#### CHAIR: James Wallin, Editor, Utility Week

PANEL:

Laura Sandys, Chief Executive, Challenging Ideas and Founder, POWERful Women

Sul Alli, Director of Strategy & Regulation, UKPN Ed Reid, Head of Strategy, Centrica Business Solutions Aimie Chapple, Chief Executive Officer, Capita

#### ④ 12.45-14.00 ♀ KEYNOTE STAGE – DAY 2

#### LEADING THE DIGITAL TRANSFORMATION

CIOs and their teams are charged with delivering digital transformations that will revolutionise the utilities sector. But what challenges do they face in doing so? How close is their alignment with wider organisational goals? What issues are they facing in association with legacy technology estates and how are they moving to fill critical data gaps and improve overall digital governance? Join this session for:

- Lessons on how to tackle cultural and process-related barriers to digital transformation
- Insights into Agile transformation management
- Examples of best practice in building business cases for innovative digital investment

#### CHAIR: James Wallin, Editor, Utility Week

#### PANEL:

Andi Karaboutis, Group Chief Information & Digital Officer, National Grid

Phil Steele, Future Technologies Evangelist, Octopus
Shuchi Nagar, Head of Architecture and Data, SGN
Hannah Harrison, Head of Strategy and Planning – Digital
Services, United Utilities

PAN ENERCY WATER

UWL will feature three dedicated workshop areas and five action-packed theatres with more than 100 incredible speakers from across the energy, water, and gas industries. Position your business as a solution provider to one or more of the following challenges:

#### **GREEN TRANSPORT**

#### STAGE 1 🛗 17 MAY 🕒 09.45-10.45 ENERGY

#### **DECARBONISING TRANSPORT**

A ban on sales for new petrol and diesel vehicles after 2030 has brought the challenges associated with decarbonisation of transport for utilities into sharp relief. Electrification will see power demand skyrocket, putting strain on networks but also offering opportunities for the creative use of electric vehicles as tools for energy flexibility. Join this session to hear:

- Frontline experience from utilities investing in infrastructure and developing key technology platforms to enable the UK's transport decarbonisation ambitions
- Innovative approaches to supporting the mass take-up of EV
- The role of EV's in delivering a smart, flexible energy system

CHAIR: Adam John, Utility Week

The charging point perspective: Fast charging Ed Sargent, Business Development Manager, Pivot Power

The network perspective: Flexibility and vehicle to grid Cuan Rowlands, Graduate Trainee Engineer, WPD

The EV charging energy challenge: creating a greener world for future generations Declan Byrne, VP Sales, Driivz

PAN ENERGY WATER

#### HEAT

#### STAGE 1 🛗 17 MAY 🕒 11.00-12.00 ENERGY

#### **DECARBONISING HEAT**

Decarbonisation of heating for buildings is now solidly acknowledged as a make-or-break issue in the UK's ambitious mission to reach net zero carbon emissions by 2050. The government's Heat and Buildings Strategy and Hydrogen Strategy have put in place a founding framework for how the challenge will be tackled, with roles for both electric and hydrogen-based technologies. Now it's time for action. Join this session to hear:

- Beyond the 'electrification versus hydrogen' rhetoric, what technologies are ready to take to market and how are they being deployed? What infrastructure is required to support them?
- The latest frontline insight from the 'hydrogen town' trials
- What does a whole-systems solution to the challenge of decarbonising heat look like?

#### CHAIR: Adam John, Utility Week

Heat pumps Dan Hopcroft, Zero Carbon Heat Director, EDF

Heat networks Stuart Allison, Strategy Director, Vattenfall

Delivering the first hydrogen neighbourhood Gus Mcintosh, Director of Future Energies, SGN

Decarbonising Heat - whole system trade-offs and customer choices Mark Livingstone, Director, Guidehouse



#### PAN ENERGY WATER

#### ASSETS

#### STAGE 1 17 MAY 0 12.15-13.20 PAN

#### **TRANSFORMING CAPITAL DELIVERY**

Energy and water utilities are stepping into a new era of unprecedented need for capital investment as the rising demands of a climate stressed future prompt huge upticks in the scale and required pace of complex project delivery – all while containing costs. As companies move to replace and extend infrastructure to ensure it is future fit, capital delivery teams will need to be suitably equipped with the resources, skills and technologies to meet all of these challenges with confidence. Join this session for:

- Insights into capital delivery strategies for upcoming regulatory cycles
- The latest thinking on best practice in capital project management
- How companies are using new technologies and systems to unlock efficiencies in capital project management processes
- Thoughts on the resourcing and skills requirements of future capital delivery teams

#### CHAIR: Nadine Buddoo, Head of Content, Utility Week

### Exploring RAPID and innovative approaches to multi sector projects

Hannah Stanley-Jones, Head of Future Resources Strategy, Anglian Water

Talk to be confirmed Howard Forster, Chief Operations Officer, Cadent

#### **Onshore transmission**

Katie Tattersall, Head of East Coast Investment Programme, National Grid

Unlocking the Benefits of Digital Construction Management Technology: Improved Support for Utility GIS and ADMS Technology Danny Petrecca, VP of Business Development, Locus View

PAN ENERGY WATER

#### ASSETS

#### STAGE 1 🛗 17 MAY 🕒 13.45 -15.15 PAN

#### **PROACTIVE APPROACHES TO ASSET MANAGEMENT**

To deliver essential operational efficiency gains and mitigate the growing risk of asset failure in an aging infrastructure base, utilities must fully embrace proactive and predictive approaches to asset management. This means using new and existing asset information better, to enhance understanding of asset health and how this can be impacted by a variety of factors – from changes in its environment to altered performance expectations. This session will explore:

- How utilities can get smarter about asset utilisation by accurately forecasting factors like demand and load growth
- The benefits and challenges of implementing new approaches to asset management
- Front line examples of the ways utilities are striving to master the new discipline of proactive asset management

CHAIR: Lucinda Dann, Features Editor, Utility Week

Digital Twins – REPEX, management of ageing assets (and planning for a hydrogen future) Shuchi Nagar, Head of Architecture and Data, SGN

**Ofwat innovation fund – Al and Sewer Defect Analysis Ed Dalton**, Principal Risk & Asset Health Specialist, **United Utilities** 

Predicting load growth Mel Bryce, Oxfordshire Programme Director, SSEN

Are operational excellence and net zero achievable together? Nick Bradford, Energy, Utilities & Resources - Global Industry Director, IFS SHOWCASE RESPONDERS:

Towards improving asset management for strategies for high voltage cables

Raed Ayoob, Senior Electrical Engineer, Kinetrics

Metroscope: Software for Monitoring & Diagnostics Maddalena Bozzetti, Business Developer, Metroscope

Digital Twins for Water Utilities Operations: a case study Slavco Velickov, Advancement Director: Water, Bentley Systems

PAN ENERCY WATER

#### **CUSTOMER SERVICE**

#### STAGE 1 17 MAY 🕒 15.45-17.00 PAN

#### DELIVERING BEST IN CLASS CUSTOMER SERVICE

Utilities are feeling the heat of competitive, regulatory and social pressures to transform customer service. They need to deliver more personalisation, more choice and more transparency for customers. They need to do it at scale and with a ruthless commitment to driving down cost to serve, even as issues like climate change are adding complexity to the services and product sets they have on offer. Join this session to learn:

- What utilities are doing to improve their understanding of customer behaviours and preferences and convert this insight into future-proofed service strategies
- How best in class service providers are exploiting tools like data analytics, AI and process mining to improve customer outcomes and release efficiencies
- The pivotal role the team and 'people' play alongside technology
- How other companies are tackling issues around agent education and upskilling to underpin future service strategies

#### CHAIR: Adam John, Utility Week

Protecting service levels during the energy crisis Barry Adley, Customer Service Director, EDF

Ensuring smooth service through the SoLR transition Lillian Vessey, Kraken Implementation Specialist, Octopus Energy

Delivering consistent best in class customer service – how a great team can make a real difference Matthew Hamilton, Chief Customer Officer, Portsmouth Water

Talk title to be confirmed Alan Linter, Innovation and Data Science Director, CAPITA

PAN ENERGY WATER

#### **FIELD OPERATIONS**

#### STAGE 1 18 MAY O9.45-11.15 PAN

#### **OPTIMISING FIELD OPERATIONS**

Regulators are driving down hard on operational costs across the energy and waters while also raising the bar on service delivery. To outperform, utilities need to get smarter about the way field operatives are deployed and how they are equipped to support improved customer outcomes. This session will highlight how companies are transforming operating models and deploying technology and training to make sure field operations are optimised for the future. Join us to learn:

- How the pandemic has been used as an opportunity to accelerate rollout of automation and remote monitoring technologies which support field force optimisation
- What's new in data strategies to support field force efficiency from asset condition monitoring to location and environmental information
- About developments in collaborative models for optimising efficiency and minimising disruption in streetworks
- How companies are aligning efficiency drives with improved health, safety and wellbeing outcomes for field operatives

CHAIR: Stuart Stone, Innovate Editor, Utility Week

Fatigue management: applying AI to multiple data sources to reduce the risk of fatigue related incidents Shuchi Nagar, Head of Architecture and Data, SGN Sewage pumping dynamic risk matrix: daily data driven visit prioritisation product for waste field technicians Pavan Parshad, Data Science Innovation Manager, Severn Trent

Using data and digital tools to meet common outcomes and drive collaborative working for London's infrastructure Helen Markides, Infrastructure Data and Innovation, GLA

How visual and Augmented Reality Technologies are Optimising Field Operations Charlotte Thorpe-Costa, Director of Marketing, CallSight

SHOWCASE RESPONDERS:

Technician Enablement: from field administrator to remote expert

Mark Brewer, VP Service Management Business Unit, IFS

#### Leveraging connectivity in portable gas detection to improve efficiency and health and safety Danny Stranks, Product Champion for the MSA Grid Software, MSA

Safety

### Mobility for Infrastructure technicians intergrating GIS and Field Service Apps

Jaime Crawford, SVP Strategic Accounts and Industries, Locana

PAN ENERGY WATER

#### **ACHIEVING NET ZERO TARGETS**

#### STAGE 1 18 MAY 011.45-13.00 WATER

#### NET ZERO 2030: THE WATER SECTOR'S CHALLENGE

The water sector's landmark commitment to achieving net zero carbon emissions by 2030 has released a wave of focussed and determined activity across the sector as companies seek to leverage new technologies and processes to move them closer to their goal. Join this session to hear:

- Ofwat innovation fund case studies delivered by industry and sustainability experts highlighting the ways in which companies are making progress on emissions reduction through tackling factors from energy use to process emissions and embodied carbon
- How enhanced monitoring, alternative treatment processes, natural capital solutions and more are being employed for the net zero 2030 cause
- The cultural and behavioural challenges of meeting the goal

#### CHAIR: Ruth Williams, Water Correspondent, Utility Week

Whole life carbon modelling: informing capital replacement cycles

Richard Buckingham, Climate Change and Carbon Manager, Anglian Water

Pioneering cold anaerobic digestion: decarbonising wastewater by reducing nitrogen oxide emissions

Dr Ben Martin, Lead Research Scientist, Thames Water

Triple carbon reduction for water treatment: using less energy and the role green hydrogen plays Adam Brookes, Anglian Water

#### SHOWCASE RESPONDERS:

Site Improvements and Implementation of Advanced Mass Ammonia Control at Whittlesea WRC Oliver Hallett, Sales and Marketing Manager, Air Technology

Fault Level Measurement and Harmonics Management Kate Edwards, Outram Research

Title to be confirmed Oxymem

PAN ENERGY WATER

#### **SMART WATER NETWORKS**

#### STAGE 1 🛗 18 MAY 🕒 13.45-15.00 WATER

#### **DELIVERING SMART WATER NETWORKS**

To meet and conquer the challenges facing the water sector – from climate change, biodiversity loss and water scarcity through population growth and regulatory performance expectations – companies know they need to create smarter infrastructure. They know they need new capability to manage capacity, constraints and risks at a whole network – or even multinetwork level. But what does this mean in practice? Join this session to hear:

- How companies are trialling and deploying digital twins
- Examples of other new tools extracting value from data
- Frontline experiences from water companies utilizing intelligent decision making to deliver a smart water network vision

CHAIR: Jeremy Heath, Innovation Manager, SES

Digital Twin Jethro Yates, Lead Data Scientist, Thames Water

Ofwat Innovation Fund case study: Safe Smart Systems – Al to improve long-term operational resilience Fionn Boyle, Shop Window Manager, Anglian Water

Moving to a smarter understanding of storm overflows and sewer networks

Jody Knight, Asset Technology Manager, Wessex Water



PAN ENERGY WATER

#### WASTEWATER TREATMENT

#### STAGE 2 17 MAY 10.00 -11.30 WATER

#### THE FUTURE OF WASTEWATER AND BIORESOURCES

Innovation is urgently needed in wastewater management and treatment to meet regulatory expectations, reduce environmental impact and exploit the circular economy opportunities associated with treatment by-products. Join this session for frontline insight into key projects and technology advances aimed at:

- Eliminating use of combined sewer overflows
- Implementing novel and sustainable new treatment techniques
- Reducing energy usage through options like heat recovery and optimising bioresource recovery

#### CHAIR: Ruth Williams, Water Correspondent, Utility Week

#### **Resource recovery**

Ana Soares, Professor of Biotechnology Engineering, Cranfield University

Using carbon capture technology in sewage treatment processes to create a sustainable fertiliser from waste Pete Vale, Carbon & Circular Economy Architect, Severn Trent

Piloting the use of Al to monitor a waste catchment areas in real time to minimise the risk of flooding and sewage pollution James Torres Ballard, Control and Automation Architect, Severn Trent



PAN ENERGY WATER

#### WASTEWATER TREATMENT

#### STAGE 2 17 MAY 12.15-13.30 WATER

#### PHOSPHORUS REMOVAL IN WASTEWATER

Water industry focus on phosphorus removal is ramping up in line with stretching new targets in AMP7 and increasing sensitivity around the adverse impacts of phosphorus on the natural environment. Join this session to hear:

- How water companies are trialling and deploying innovative new phosphorus management and removal techniques, chemical treatment and biological approaches
- The role of nature-based solutions
- Expert views on the short and long term benefits different solutions have to offer

CHAIR: Stuart Stone, Innovate Editor, Utility Week

Ofwat Innovation Fund - Alternative approaches to phosphorus removal on rural wastewater treatment Callum Grundy, Senior Process Engineer, United Utilities

Exploring the opportunities and challenges for nature based solutions for phosphorus removal Mathew Palmer, Process Engineer, Severn Trent

The importance of a partnership approach to P removal John Brewington, Regional Development Manager, Rivers Trust



PAN ENERCY WATER

#### **CUSTOMER SERVICE**

#### STAGE 2 17 MAY 14.00-15.15 PAN

#### SUPPORTING VULNERABLE CUSTOMERS

Responsibility for delivering essential services means utilities must protect the most vulnerable in our society, ensuring they are not deprived of heat, power or water, nor disadvantaged by any inability to engage in rapidly changing utilities markets. Upholding this responsibility will only becoming more challenging as the long tail of the pandemic continues to reveal its impacts on the financial, physical and mental health of many consumers and the drive for net zero fires debate about how to achieve a "just" transition. This session will explore:

- New breakthroughs in collaboration models and data sharing to support joined up support for vulnerable customers
- How to use technology to get smarter at identifying early signs of vulnerability – and ensure warning signs feed through into appropriate service design and resourcing for vulnerable customer pathways
- How companies are responding to new regulatory and policy expectations around protecting and serving vulnerable customers

#### CHAIR: Stuart Stone, Innovate Editor, Utility Week

Supporting vulnerable energy consumers during the cost of living crisis

Thomas Brooke Bullard, Senior Policy Researcher, Citizens Advice

#### Ofwat Innovation Fund: Using behavioural science to improve engagement with hard-to-reach customers

Rich Powell, Innovation Relationship & Commercial Lead, Severn Trent

Using open banking approaches to deliver affordable solutions Louise Beardmore, Customer Service and People Director, United Utilities

Implementing A Holistic Strategy for Identifying and Supporting Vulnerable Customers Frank Sherlock, VP International, CallMiner

PAN ENERCY WATER

#### **ENERGY FLEXIBILITY AND SMART NETWORKS**

#### STAGE 2 🛗 17 MAY 🕒 15.45-17.00 ENERGY

#### DELIVERING SMART ENERGY NETWORKS: THE DSO TRANSITION AND LOCAL FLEXIBILITY

The long-talked about transition of distribution network operators into a world of distribution system operations is now well underway, albeit in a shifting policy landscape where the boundaries of responsibility and competition for DSO services is still to be clearly defined. Likewise, innovation schemes and technology development have transformed the idea of local flexibility services from theory to reality, with DNOs now actively tendering for flexibility from local distributed energy resources. Join this session to hear:

- Frontline experiences from network operators and other service providers and stakeholders embracing the DSO opportunities
- The challenges of technology deployment and stakeholder engagement
- The latest in business model innovation

#### CHAIR: Stuart Stone, Innovate Editor, Utility Week

### Smart gas networks and the role of the gas grid in a flexible energy system

Helen Fitzgerald, Physical Strategy Manager, Wales and West Utilities James Whitmore, Future of Gas Manager, Cadent

Local system restoration project – and the DSO model Sarah Rigby, Future Networks, SSEN

Smart networks and the role of flexibility in the energy system Dr Avinash Aithal, Technical Lead, Open Networks, Energy Networks Association (ENA)

PAN ENERGY WATER

#### **SMART WATER NETWORKS**

#### STAGE 2 18 MAY 10.00-11.15 WATER

#### **ACCELERATING INNOVATION IN LEAKAGE REDUCTION**

Water companies have been tasked by Ofwat with achieving a 50% reduction in leakage by 2050. With the looming challenges of population growth and water scarcity to contend with, it's essential this goal is met or exceeded if water supplies in the UK are to remain resilient and reliable. Join this session to hear about:

- The rapid innovation required to meet the target, including the rollout of pioneering new materials and repair techniques
- Examples of tech-enabled network monitoring to underpin proactive and predictive leakage reduction strategies
- Frontline experiences from water companies ramping up their ambition and pace of transformation on leakage

CHAIR: Ruth Williams, Water Correspondant, Utility Week

Smart networks for leakage detection Jeremy Heath, Innovation Manager, SES Water

Digital Twin: reducing leakage and predictive analysis Sam Bright, Innovation Programme Manager, Yorkshire Water

Ofwat innovation funded – leak detection using Dark Fibre optical fibre strands to prevent leaks Jamie Perry, Innovation Trials Lead, Severn Trent

Talk title to be confirmed 1 Spatial



PAN ENERCY WATER

#### ASSETS

#### STAGE 2 18 MAY 011.45-13.00

#### **INNOVATION IN MEND AND REPAIR TECHNOLOGIES**

Ambitious innovation in mend and repair approaches for energy and water infrastructure is needed if the sector wants to meet tough regulatory targets around leakage and losses as well as supply interruptions and efficiency gains with confidence. In this session we will explore:

- Breakthroughs in smart materials and their potential to transform mend and repair assumptions
- Developments on no-dig asset interventions and how these are being rolled out
- How to support predictive approaches to mend and repair regimes with advanced monitoring and modelling tools – and the developing cost/benefit case for investment in these tools
- The importance of cross-sector collaboration and coordination to optimise mend and repair work in the round

CHAIR: Adam John, Utility Week

Lining utopia: the water perspective Katrina Flavell, Technical Specialist – Clean Water Networks, Yorkshire Water

Excavation innovation and robotics Ollie Machan, Innovation Delivery Manager, SGN

Innovation in pipe materials/pipe rehabilitation Dr Andy Russell, WRC

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#### WATER QUALITY

#### STAGE 2 18 MAY 013.45-15.00 WATER

#### **NEW APPROACHES TO DRINKING WATER TREATMENT**

This session will explore the latest thinking in tackling chemicals and emerging contaminants through advanced monitoring and technology applications. We'll also showcase how new catchment management and natural capital approaches, delivered via innovative partnership models can support sustainable drinking water quality in the UK. Join this session to hear:

- How companies are mobilising to meet new water quality expectations in PR24 and beyond
- Which innovations are proving effective in tackling chemicals and emerging contaminants
- The latest proof points for natural capital and catchment management approaches to protecting water quality

CHAIR: Ruth Williams, Water Correspondent, Utility Week

Ofwat Innovation Funded – Smarter Tanks to build a resilient network

John Rumble, Senior Asset Manager, Affinity Water

Real time monitoring and water quality sensors Leo Carswell, Principal Consultant – Technology and Innovation, WRC

### Artificial intelligence and the control and optimisation of water production facilities

Darren Coleman, System Performance Manager, Anglian Water



PAN ENERCY WATER

#### ASSETS

#### STAGE 3 17 MAY 10.00-11.30

### DIGITAL ASSET MANAGEMENT: COMPLETE, ACCURATE AND ACCESSIBLE INFORMATION

Utilities need to transform legacy approaches to asset planning and management to meet the challenges posed by decarbonisation, water scarcity and regulatory operational efficiency expectations in a timely and cost effective way. To do this, they will need to make great leaps in the way asset information is leveraged. Join this session to hear:

- How to ensure asset data is complete, accurate and usable for multiple stakeholders
- How major asset information initiatives in the UK are putting the foundations for future asset management in place
- What utilities need to do next to capitalise on their work

CHAIR AND INTRODUCTORY REMARKS: Matt Webb, Head of Enterprise Data, UKPN

The National Energy System Map Dan Clarke, Head of Innovation, ENA

National Underground Asset Register – sharing infrastructure data to deliver value Holger Kesler, NUAR Stakeholder and Communications Lead, Geospatial Commission

CReDO – climate change adaptation digital twin demonstrator project and the Information Management Framework: improving resilience across energy, water and telecoms infrastructure networks

Sarah Hayes, CReDo Project Lead, National Digital Twin Programme Tom Burgoyne, Enterprise Data Architect, Anglian Water

SHOWCASE RESPONDERS:

Facilitating data interoperability Carsten Roensdorf, Strategic Propositions Manager, Ordnance Survey

PAN ENERGY WATER

#### ASSETS

#### STAGE 3 🛗 17 MAY 🕒 11.45-13.15 🖪

#### DIGITAL ASSET MANAGEMENT: BREAKING DOWN BARRIERS TO DATA TRANSPARENCY AND SHARING

To operate efficient, net zero infrastructure in the future utilities need to conquer growing complexity and optimise assets in a "whole system" context. They also need to facilitate innovation in their industry ecosystems so that third parties can bring forward exciting new products and services to help customers reduce their energy and water usage and play a more active demand-side role. This session will explore:

- How to break down barriers to the accessibility and movement of data between organisations and across industry boundaries
- How to put in place clear frameworks to maintain security and agreed processes for ongoing data reconciliation between many stakeholders
- How utilities and other key players are tackling these challenges

#### CHAIR AND INTRODUCTORY REMARKS:

Richard Dobson, Energy Digitalisation Task Force

#### How can we best share data?

Stuart Coleman, Business Development Director, The Open Data Institute

Ice Breaker One – open energy using the open banking model Kathryn Corrick, Development and Strategy Director, Ice Breaker One

Assessing open data maturity Matt Webb, Head of Enterprise Data, UKPN Talk title to be advisedPaddy Gogin, Enterprise Account Executive, Particle

#### SHOWCASE RESPONDERS:

Breaking down open data barriers Paul Linnane, Chief Data Officer, Electralink

Data from the edge Simon Hoy, Vysiion



PAN ENERCY WATER

#### **ENERGY FLEXIBILITY AND SMART NETWORKS**

#### STAGE 3 🛗 17 MAY 🕒 13.30-14.30 ENERGY

#### SMART HOMES, SMART CARS, SMART ENERGY

It's coming: the way the UK public interacts with their energy provider is set to change, drastically and permanently. The rollout of EVs and new smart home technologies, such as domestic energy storage and low carbon heating solutions, will turn many more customers into 'prosumers'. This session will explore:

- The latest technology and innovation shaping how consumers will interact with their energy use and energy provider
- The data and communications enablers for smart energy services from smart meters to 5G and more
- The adoption challenge changing minds and changing behaviours
- The latest thinking on the business models which will unlock energy service innovation for the mass market

#### CHAIR: Richard Halsey, Capabilities Director, Energy Systems Catapult

#### **Digital Twin**

Carolina Tortina, Head of Digital Transformation and Innovation Strategy, National Grid

#### Vehicle to grid and the customer proposition

**Claire Miller**, Director of Technology and Innovation, **Octopus Electric Vehicles** 

#### Smarter living propositions Rebecca Rosling, Head of Smart Customers, EDF

#### Talk title to be confirmed

SEW



PAN ENERCY WATER

#### **ENERGY FLEXIBILITY AND SMART NETWORKS**

#### ♀ STAGE 3 17 MAY ●14.45-15.45 ENERGY

#### DELIVERING SMART ENERGY NETWORKS – HANDLING SYSTEM CONSTRAINTS AND MANAGING CONNECTIONS DEMANDS

Deep decarbonisation and decentralisation continue to focus mounting dependency and pressure on energy network operators. An accelerated shift to low carbon heating and transport options in this decade will intensify this trend, meaning networks must likewise ramp up their ability to cleverly manage network constraints. Join this session to hear:

- How networks are innovating to find new capacity for connection of heat pumps, electric vehicles, green gas sources, gas-powered HGV fuelling stations and more
- The frontline challenges of making the connections application and delivery process a more customer-friendly and transparent affair
- The technology requirements and operational transformations required

CHAIR: **Paul Jewell**, System Development Manager, **Western Power Distribution** 

#### Understanding the size of the challenge

Russel Fowler, Senior Project Manager - Decarbonisation of Transport, National Grid

The practicalities of handling volume applications for LCT connections to the network

Paul Jewell, Policy Manager, Western Power Distribution

Distributed Energy Resource Management System (DERMS)automated control system allowing Distributed Energy Resources to connect to the network cheaper and faster

Matt White, Network Operability Manager, UKPN

Future-proof technology solutions for advanced telemetry and increasing network connectivity demands Nigel Allen, Business Development, OT & Cyber, Belcan Advanced Solutions

PAN ENERCY WATER

#### WASTEWATER TREATMENT

#### STAGE 3 17 MAY 16.00-17.00 WATER

#### NATURAL CAPITAL AND NATURE-BASED SOLUTIONS

How can we get away from pouring concrete and move towards more sustainable approaches to maintaining resilient infrastructure? This session will explore the latest thinking about how to drive down capital carbon and investment emissions and ensure biodiversity net gain in line with asset renewal and replacement programmes. We'll also delve into emerging evidence on the costs and benefits of natural capital and naturebased solutions versus conventional infrastructure approaches. Join us for:

- Inspiration on the potential for "whole life" carbon modelling for assets and how this can help justify alternative infrastructure solutions
- Insights into ambitious natural capital innovation projects
- Examples of best practice in measuring and monitoring biodiversity outcomes
- Discussion of the regulatory drivers for and barriers to greater use of nature-based and natural capital solutions in the utilities industry

#### CHAIR: Ruth Williams, Water Correspondant, Utility Week

How to avoid pouring concrete: natural treatment of wastewater at Clifton Works Michael Housby, Lead Project Manager, Yorkshire Water

Talk title to be confirmed Dan Green, Wessex Water

Multi-capitals approach to investment planning Paul Payne, Director of Asset Planning, Welsh Water

#### **UWL22 DAY 1: CLOSE**

PAN ENERCY WATER

#### **ENERGY FLEXIBILITY AND SMART NETWORKS**

#### ♀ STAGE 3 18 MAY ● 10.00-11.15 ENERGY

#### STRATEGIC INNOVATION IN GAS

As the UK steps up its efforts to meet zero carbon emissions, the gas network has a pivotal role to play. This session will look at how gas networks are innovating to find a whole-system solution to the UK's low carbon future. Join this session to:

- Hear the latest developments in innovation schemes which will pave a way for a hydrogen grid
- Learn how demonstration schemes are tackling the safety and asset transition questions involved in moving to a hydrogen future
- Understand advances in network modelling and their importance to a sustainable future for gas infrastructure

#### CHAIR: Adam John, Utility Week

Nuclear net zero opportunities - N-NZO, Green hydrogen injection into the NTS, HyNTS compression and HyNTS deblending

Tony Nixon, National Grid

Customer Energy Village, Power generation from gas flow and Rail decarbonisation for whole systems planning

Keith Owen, Head of Systems Development and Energy strategy, Northern Gas Networks

HyPark - EV charging using the gas and electricity grids together and hydrogen refuelling Will Heinzelmann, Product Director, PassivUK



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#### FIELD OPERATIONS

#### STAGE 3 🛗 18 MAY 🕒 11.30-12.30 PAN

### SUPPORTING A PRODUCTIVE AND PROGRESSIVE WORKFORCE

The pandemic has forced employers across all sectors, utilities included, to think again about the conditions needed to ensure productivity and how to sustain engaged and happy workforces. This session will explore:

- Long term changes to working practices and policies driven by the pandemic
- How technology can help optimise efficiency and productivity across workforces working in newly flexible ways and from remote locations
- New thinking about how to support great health and wellbeing outcomes for all

CHAIR: Stuart Stone, Innovate Editor, Utility Week

**Using social value to attract and retain employees Noela Fitton**, Head of Strategic Projects, **Network Plus** 

Transforming a team to deliver operational improvements James Harrison, Head of Waste Water Asset Management, Yorkshire Water

Putting people first – creating a high performance, reward and engagement culture Judy Keir, HR Director, SMS

Opportunities to support a productive and effective workforce with technology Paul Fermor, UK Solutions Director, Software AG

PAN ENERGY WATER

#### **NET ZERO**

#### STAGE 3 18 MAY 12.45-13.45

#### SUPPORTING CUSTOMERS ON NET ZERO JOURNEY

The UK's ambitions for carbon neutrality by 2050 will require a monumental behavioural and lifestyle shift on a society wide level. Over the coming decades customers will have to switch to low carbon transport and heating as well as changing their relationship with energy (and water) – customers will be on a steep learning curve and will adopt at different rates. This session will explore how retailers can help customers navigate their net zero journey – covering:

- How can we educate our customers and provide the information they need to make real changes
- How do we ensure no one is left behind on this journey
- What incentives, innovation and commercial propositions are required

#### CHAIR: Lucinda Dann, Utility Week

Innovation and introducing new products and services Charles Wood, Deputy Director, Energy UK

Helping customers to use less energy Archie Lasseter, Sustainability Lead, Utilitia

Buying heat as a service Matthew Lipson, Business Leader: Consumer Insight, Energy Systems Catapult



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#### **SMART METERS**

#### STAGE 3 18 MAY 14.00-15.15 PAN

### SMART METERS - GETTING THEM OUT THERE AND MAKING THE MOST OF THEM

The rollout of smart meters to energy and water consumers is creating a foundation of data for service innovation and promotion of more sustainable consumption habits. The industry still needs to contend with significant gaps in smart meter coverage as well as patchy consumer buy-in to data sharing, but as these issues are tackled, what are companies doing to ensure the full potential of smart meter insights are leveraged? Join this session to explore:

- The latest on the smart meter rollout for the energy sector how are companies addressing the remaining properties and when do they expect to complete the rollout?
- Frontline experiences of introducing smart meters in the water sector the challenges and benefits
- How energy and water companies are using new technologies, data tools and communications strategies to maximise the value of smart meters to company and customers

#### CHAIR: Adam John, Utility Week

Rolling out a smart meter programme from pilot to 1 million meters in 5 years Lindsay Congreve, our Head of Metering Operations, Anglian Water

Innovation and accelerating the value of smart to serve customers better Joe Mills, Head of Smart Metering Platforms, OVO

Lessons from scale and volume delivery John Miller, Head of Smart Roll Out, British Gas

> GET IN TOUCH TO DISCUSS PLACING YOUR BUSINESS ON THE BIGGEST STAGE IN UK UTILITIES.

## **INNOVATION STAGE** – 17 MAY 2022

HEADLINE SPONSOR



• 10.30 (60 minutes)

#### LEAPING THE INNOVATION HURDLES

Using the often opposing views from innovators and innovation users we will engage the audience to share first hand experiences and navigate a path through the innovation process that suits those on both sides of the table.

Jo Burgess, Head of trial reservoir, Isle Utilities

**Tom Hall**, Enterprise programme manager - transformation, **Yorkshire Water** 

Matthew Gibson, Business development director, Orege UK Ltd

Simon Humphreys, CEO, iVAPPS Ltd

Kieran Brocklebank, Head of innovation, United Utilities

#### (-) 12.00 (60 minutes)

#### EXPLORING THE BRITAIN'S HYDROGEN BLENDING DELIVERY PLAN (WITH IGEM)

This session will explore how hydrogen blending with natural gas in the existing gas infrastructure can support the transition to net zero – with UK Government aiming for hydrogen blending to commence in 2023 – focussing on the ENA's Britain's Hydrogen Blending Delivery Plan, roll-out models, delivery and timelines, as well as demonstrator trials and customer perceptions.

#### Chris Train, UK Green gas champion

Nolan Robertson, Future SO strategy manager, Cadent

Sikander Mahmood, Future networks project manager, Cadent Gas

Zoe Robinson, Professor of sustainability in higher education, Keele University

Forget blue skies. This is frontline, actionable insight that will change your business for the better.

## **INNOVATION STAGE** – 17 MAY 2022

#### (b) 13.15 (60 minutes)

#### SPRING'S ORIGIN STORY – BREAKING DOWN BARRIERS CREATING AN INNOVATION ECOSYSTEM

- Innovation barriers facing the UK Water and Utilities sectors
- How Spring came to be in response to those challenges
- Spring's service offerings and ecosystem

Carly Perry, Managing director, Spring

Angela MacOscar, Head of Innovation, Northumbrian Water

Tom Arnot, Co-director, Water Innovation Research Centre, University of Bath

Lila Thompson, Chief executive, British Water

#### € 14.30 (30 minutes)

#### OFWAT FUND: CREATING A WATER SECTOR BLUEPRINT FOR INDUSTRIAL SYMBIOSIS

This is a collaborative project for the UK water sector – with specialist support from International Synergies and Jacobs, alongside leveraged support from the first Ofwat Fund Competition.

Suzy Hill, Future leader graduate, United Utilities

James Woodcock, International manager, International Synergies

#### ● 15.30 (60 minutes)

**HEADLINE SPONSOR** 

#### CHALLENGE ACCEPTED: HOW SPRING IS USING INNOVATION CHALLENGES TO CATALYSE BREAKTHROUGH INNOVATION

Capita

CHAIR: Carly Perry, Managing Director, Spring

- The need for structured innovation challenge processes in the sector
- How Spring's Innovation Challenge service will address sectoral needs
- Sharing of case studies and lessons learnt

Kieran Brocklebank, Head of innovation, United Utilities

Laura Underhill, Innovation supplier engagement manager, Anglian Water

## **INNOVATION STAGE** – 18 MAY 2022

HEADLINE SPONSOR



#### ● 10.15 (45 minutes)

#### THE HOLE TRUTH - WHY ACCELERATING COLLABORATIVE INNOVATION IS MISSION CRITICAL FOR THE SECTOR

To achieve successful outcomes and minimise the impact on communities and road users, a step-change in collaboration and the broader adoption of innovative technologies/solutions is required. This panel will bring together leading industry voices to share their experiences and provide valuable insight to inspire the acceleration in collaborative innovation we need.

Joel Abbey, Commercial director, One Network

#### I1:30 (75 minutes)

### UNDERSTANDING THE CHALLENGES OF VULNERABILITY THROUGH THE TRANSITION TO NET ZERO

#### CHAIR: Keith Owen, Head of systems development and energy strategy, Northern gas networks

The need to accelerate pathways to net zero is increasingly apparent. A move away from long standing, embedded fossil based technologies to those which offer low to zero carbon emissions will bring challenges in terms of suitability across a broad range of application, their useability, impact and cost to the consumer and the complexity involved in making all of this happen from an energy network perspective. Adding further to this complex picture, the UK housing stock could prove particularly difficult to decarbonise with a sizable proportion of older building stock and levels of energy efficiency below that seen across Europe. Rising energy costs further exacerbate the challenge, with an increasing number of consumers finding themselves in fuel and digital poverty.

In this session we will discuss the new facilities being created, which will consider energy and decarbonisation from both consumer centric and whole systems view point, to help identify and tackle the most complex challenge of our time, with examples of new research being undertaken, innovation that has been done and new thinking which could help unlock a fair transition for all.

### Customer Energy Village project: Developing a research facility to support the Net Zero challenge

Keith Owen, Head of systems development and energy strategy, Northern gas networks

## **INNOVATION STAGE** – 18 MAY 2022

#### HEADLINE SPONSOR



#### € 13.00 (60 minutes)

#### POSTCARDS FROM THE EDGE: LESSONS LEARNED DURING TRIAL-TO-PURCHASE PILOTS

This session will consist of joint presentations in which the pairs of technology vendors and technology users who have successfully found a way to engage in a trial-to-purchase process will tag-team short first-hand accounts of how they managed to reach their agreements and more.

Jo Burgess, Head of trial reservoir, Isle Utilities

Kieran Brocklebank, Head of innovation, United Utilities

Victoria Edwards, CEO & founder, FIDO

**Tom Hall**, Enterprise programme manager - transformation, **Yorkshire Water** 

Matthew Gibson, Business development director, Orege UK Ltd

#### • 14.15 (75 minutes)

#### DEVELOPING HYDROGEN SUPERPLACES (WITH IGEM)

How industrial clusters will drive the growth of low carbon hydrogen and develop resilient supply chains, support jobs and position UK companies at the forefront of a growing international market.

Ollie Lancaster, Chief Executive, IGEM

Keith Owen, Head of systems development and energy strategy, Northern gas networks

**Alastair Scott, SGN** 

Jinmi Macaulay, Public affairs and policy manager, National Grid



### DISCOVER A HOST OF NEW FEATURES DESIGNED TO DRIVE COLLABORATIVE INNOVATION

#### COLLABORATION EXCHANGE



Feeling the Zoom fatigue? We all know that digital interactions are great for keeping the business going, but there's no replacement for getting in a room with your peers. Utility Week Live's new collaboration exchanges provide a dedicated space for you to get together with likeminded industry professionals and share your successes and challenges.

#### **MEETING HUB**

Longing for some face-to-face interaction? Looking to meet up with old contacts and make new ones? Keen to get some oneon-one time with our unbeatable lineup of industry speakers? The all-new Utility Week Live meeting hub offers visitors from utilities the opportunity to book a dedicated time and space with speakers, exhibitors, or other visitors, who they can browse and connect with ahead of time through our digital show app.

The meeting hub also includes an informal lounge area – no need to book, just turn up, take a seat and have a chat. And if you need to stay in touch with the office – no problem. Our dedicated 'work from UWL' desks have everything you need to dial in and crack on.

#### SPRING WATER INNOVATION HUB

With water companies including Severn Trent, United Utilities, Anglian Water, Northumbrian Water, and Welsh Water sharing their innovations.

#### ISLE WATER INNOVATION ZONE

Bringing together world-standard innovators in the water space with a dedicated content area.

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#### ENERGY INNOVATION CENTRE'S INNOVATION ZONE

With the distribution network operators including UK Power Networks, Northern Powergrid, SSE and Scottish Power sharing their innovations.

#### THE INSTITUTE OF WATER SKILLS CHALLENGE

With teams of apprentices from across the industry competing for the crown of 'Skills Champion 2022'.



## **UWL ATTENDEES**



## GET YOUR TICKET



OR VISIT: UTILITYWEEKLIVE.CO.UK

Utility Week Live is FREE to attend for anyone who works directly for a utility or tier 1 contractor, and registers using an email domain that matches this criteria.

Everyone else can network with the industry and be inspired by the unmissable content and fresh ideas from sector leaders and transformational companies, across two days of unrivaled content and solution showcases for as little as £99!



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