

# DELIVERING ON NET ZERO CARBON IN WASTEWATER MANAGEMENT

VIRTUAL EVENT: 29th September



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## Conference Opening & Welcome

Chair – Rowland Minall, General Manager at Aqua Enviro

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## Session 1 – Technology

### **Balancing net zero carbon, effluent quality and environmental net gain with nature-based solutions: upgrading septic tanks**

Gabriela Dotro, Gareth Brown and Bruce Jefferson, Cranfield University, UK

### **Anaerobic fluidized bed membrane bioreactor for energy-efficient mainstream anaerobic and anammox treatment**

Po-Heng Lee, Imperial College London, UK

### **Eliminating residual methane from digested sludge is key to achieving a climate neutral STW**

Neil Willoughby<sup>1</sup>, Maria Dittmann<sup>2</sup> and Lewis O'Brien<sup>1</sup>, <sup>1</sup>Eliquo Hydrok, UK, <sup>2</sup>Eliquo Stulz GmbH

### **No need for heat! The low temperature, high rate anaerobic digestion technology that treats low strength wastewater for the Municipal and Food & Drink wastewater sectors**

Dermot Hughes, Conall Holohan, Joe Shinkwin and Michael Murray, NVP Energy, Ireland

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## Round Table Discussions & Networking

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## Session 2 – Quantification and Optimisation

### **Biomethane generation and its place in the bioresource market**

Owen Elson<sup>1,2</sup> and Matthew Gee<sup>2</sup>, <sup>1</sup>Atkins, <sup>2</sup>Thames Water, UK

### **Optimisation and reducing carbon footprint**

Catarina Borges, Richard Brice, Jonathon Bishop and John Sheri, Mott MacDonald, UK

### **Quantifying emissions to deliver net zero carbon**

James Blair, United Utilities, UK

### **Quantifying and reducing greenhouse gas process emissions in the UK and Ireland Water Industry**

Bruce Horton<sup>1</sup>, Dan Green<sup>2</sup>, Amanda Lake<sup>3</sup> and Ariane Brotto<sup>3</sup>, <sup>1</sup>UKWIR, <sup>2</sup>Wessex Water, <sup>3</sup>Jacobs, UK

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## Session 3 - PANEL DISCUSSION: Challenges in delivering net zero

The panel discussion will reflect on work ongoing around process emissions from wastewater treatment, the importance of monitoring and mitigating these in our path to net zero and how we can work together to do this as an industry.

**Amanda Lake**, Europe Water Process Lead, Jacobs

**Mikkel Anderson**, Chief Technology Officer, Unisense

**Bruce Jefferson**, Professor of Water Engineering, Cranfield University

**Ariana Brotto**, Senior Energy and Carbon Consultant, Jacobs

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