



## Zac Ribak

Managing Director of Watermatic Ltd who Design Install and Maintain Irrigation Systems, Green Walls & Green Roofs

Zac is an 'eco-entrepreneur' who grew up in a desert that bloomed into a real Garden of Eden with papaya and cotton growing amongst the sand dunes. And he is an installer by nature who actually enjoys the overcoming the challenges inevitably presented by each project. Combined with these he has a passion for The Intelligent Use of Valuable Water and has built an Installation business that sees water used in the most efficient way, including irrigation using rainwater and grey water wherever possible He really believes in Greening of the urban environment.

Zac's deep love of plants, together with the sculptor within him, brings a special alchemy of creative, environmental and engineering skills to his projects. He understands both the deeper and practical elements and turns them into reality. By going beyond the 'grey' cement infrastructure and into the 'green' infrastructure Zac supports planners' and designers' wishes to identify and achieve gains whilst spotting new opportunities, reducing costs, site discharges and overall water consumption.

The ideas of sustainable water management and 'whole system thinking' led him to become a founder member of the U.K's Sustainable Water Industry Group, (SWIG). He also set up Europe's first Green Wall & Green Roof Centre in Hertfordshire, UK.

"It ain't what you do it's the way that you do it" – is about totally fulfilling primary objectives whilst achieving other outstanding results along the way.

Award winning projects range from the bold- Pepper Pig World at Paulton's Park, - to the green Olympic Village. They include the very new (and London's second tallest building), Vauxhall Tower and the very old HM Tower of London. Other 'Jewels in the Crown' include Vertical Gardens, Green Walls and a growing number of Green Roofs dotted around the capital.

As Watermatic Ltd installs irrigation, green walls and green roofs across London and the South of England, many public and commercial projects, green spaces, individual homes and gardens are benefiting from the intelligent use of valuable water.

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## Armando Raish

Armando Raish started his career in architecture then found more fulfilment in landscape design. Moving to the UK from Australia in 2006, he pursued his passion for urban greening by starting his own vertical growing company.

He established Treebox Ltd in 2009 to offer innovative growing solutions for both indoor and outdoor spaces.

Through Treebox he hopes to generate interest in sustainability issues surrounding urban living, cities and communities, food production and our ecological impact on the earth

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## Cath Hassell

Cath Hassell is an expert in sustainable water strategies and low-carbon and zero-carbon technologies, formed from a background of 17 years experience in the conventional plumbing industry and 16 years in environmental building. From 1998 - 2004 she worked at Construction Resources, designing and implementing rainwater harvesting, greywater recycling and solar technologies for domestic, commercial and industrial sites. She set up ech2o consultants ltd in 2004, a company that works with local authorities, developers, housing associations, water companies, community groups, architects and engineers, at both a strategic and individual site level, to successfully incorporate sustainable water and low carbon solutions into the built environment. She was a founder member of the UK Rainwater Harvesting Association (UKRHA), and of SWIG (the Sustainable Water Industry Group) and was a director of the AECB (the Sustainable Building Association) for 7 years. Fascinated by how we use water across different age-ranges, cultures and genders, Cath writes a regular column about water for Green Building Magazine and blogs about showering at a year of showering variously. She also regularly talks about technological and behaviour-change solutions to water shortages to a wide range of audiences, in the UK and abroad, including 15,000 school pupils and counting. [www.ech2o.co.uk](http://www.ech2o.co.uk)

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## John Griggs

John is the Managing Director of JPJN Partners Ltd and specialises in consultancy related to water supply and drainage issues, especially water efficiency.

Previously he was the Principal Science Officer at the Chartered Institute of Plumbing and Heating Engineering (CIPHE) based in Hornchurch, Essex, England, but formerly Principal Consultant at the Building Research Establishment (BRE). John is a fellow of the CIPHE and has served on many Standards committees in the UK and abroad. John has been involved in scientific research related to water supply and drainage issues for over 30 years. This has included the monitoring of water efficient homes and their drainage systems, the development of low-water-use WCs and urinals, and the development and revision of environmental water management schemes. John also formerly worked for the UK Government and was involved in developing and implementing the EU-ETS Carbon trading scheme as the DTI's Construction Products Issues and Impact Manager. He was a former technical advisor to Building Regulations on hot and cold water supply, drainage, wastewater treatment and related issues. He formally chaired the British Standards Institution's Technical Committee on Water Reuse and was the UK's delegate to CEN and ISO committees on wastewater reuse. He recently chaired the Department for Communities and Local Government's Hot Water Safety Group. Through the CIPHE, and by collaborating with Waterwise East, he developed innovative training in Professional Water Auditing.

He has been on the judging teams for the Waterwise Marque and also for the SWIG awards. John is married to Penny and they have two sons; Josiah and Nathan, as well as a cat called Blackberry. They live in a water efficient house in Hertfordshire, about 20 miles from London.

John Griggs  
MSc, BSc, FCIPHE, I Eng



## Lutz Johnen

Lutz Johnen is managing director of Aquality Trading & Consulting Ltd, a company he founded in 2004 to introduce rainwater harvesting and greywater recycling technologies to the UK market.

Prior to founding Aquality, Lutz was managing director of Germany based GEP Umwelttechnik GmbH, a specialist manufacturer of rainwater harvesting systems. While at GEP, Lutz was responsible for introducing rainwater and greywater recycling technologies to new and emerging markets across Europe and Japan. He also project managed a joint German-Chinese governmental research project looking at alternative water technologies for residential apartment blocks in Beijing.

Lutz is chairman of the UKRMA (UK Rainwater Management Association). He is a member of the Green Building Council UK, the Fbr (German rainwater harvesting association) as well as ARCSA (American Rainwater Catchment Systems Association). He has more than 20 years experience in advising engineers and architects on rainwater/greywater system designs and integrating new water technologies in attenuation, soak-aways and fire fighting systems. He is lecturer for non-potable water management at the Mid-Career College of the Chartered Institute of Building Services Engineers (CIBSE). His focus remains on achieving water efficiency solutions and delivering a cost-effective return on investment for client businesses.