



**MARCH
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RAINWATER HARVESTING AS A SOLUTION TO A PROBLEM

**RAINWATER HARVESTING
LIMITED**

*Prepared by Rob Cooper, Founding Partner
Rainwater Harvesting Limited*



RAINWATER HARVESTING LTD COMPANY SNAPSHOT

At Rainwater Harvesting Ltd, we are proud to be one of the UK's leading manufacturers and suppliers of rainwater harvesting equipment.

During the last decade, our name has become synonymous within the industry for high quality, technologically advanced, British made products.

Our products have always differentiated themselves within the industry, with intelligent design and high quality manufacture. Because we engineer an original concept, develop it through CAD, tooling, build and take the end product to market, nobody understands our products better than we do.

We entered the market in 2008 and through a strong Research & Development ethos we have produced 'turn key' kits, ready to install, delivered to site for both the single and multi home developments.



THE FUTURE OF RWH

The need for rainwater harvesting has never been greater and at Rainwater Harvesting Limited we are utilising our experienced Design and Development Engineers to constantly improve the efficiencies of RWH. With new products coming online to make it easier and cheaper to install the systems combined with solutions to tackle the growing flood risk problems Rainwater Harvesting Limited will continue to be leading the market into the future.



THE CHALLENGES FACING US

"If no action is taken between 2025 and 2050 around 3,435 million extra litres of water per day will be needed for public water supply to address future pressures."

**'MEETING OUR FUTURE WATER NEEDS:
A NATIONAL FRAMEWORK FOR
WATER RESOURCES'**



REPORT IN CONTEXT

The Environment Agency produced a report representing their findings about the future demands of potable water in the UK. Scary reading with huge demands in the future and to put it into perspective the largest reservoir in the UK, Kielder Water in Northumberland holds 199 million litres, and has a surface area of 6.74 miles.

The additional water required by 2050 **per day** would equate to the storage capacity of another 17 reservoirs the size of Kielder Water!

WHAT IS NEXT?

Regional groups will investigate and initiate the following plans :

- reduce demand – to 110 litres of water per person per day by 2050 and drive down water use across all sectors
- halve leakage rates by 2050
- develop new supplies such as reservoirs, **water reuse schemes** and desalination plants as well as innovative cross-sector options that bring broader benefits
- move water to where it's needed through more transfers of different scales and lengths
- reduce the use of drought measures that have an impact on the environment





WATER REUSE SCHEME

RAINWATER HARVESTING

35% TOILET FLUSHING

10% WASHING MACHINE

5% OUTDOOR USE

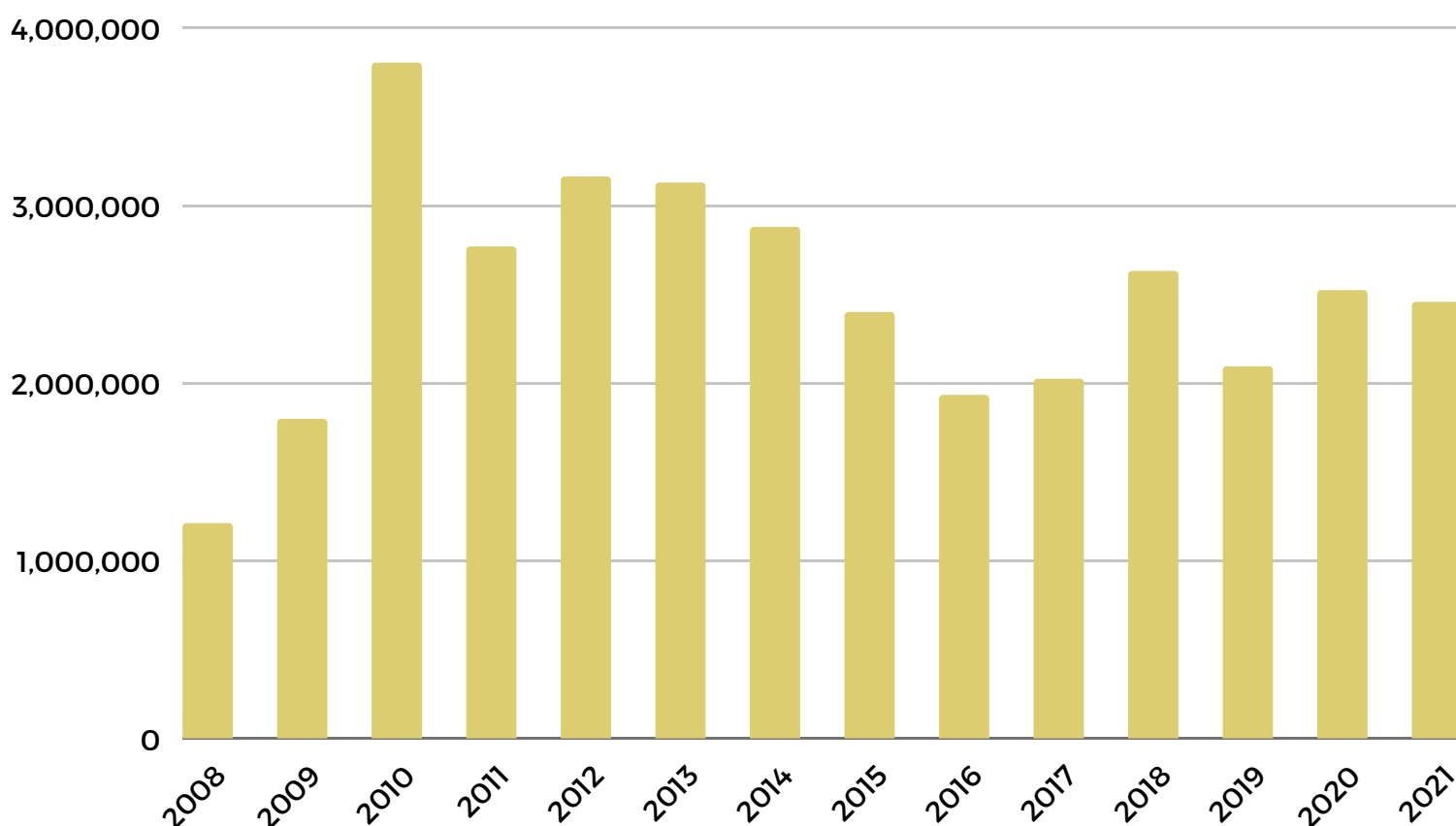
Using rainwater harvesting in your home can save up to 50% of your potable water usage.

Rainwater Harvesting Systems have been developed for easy install and next to zero maintenance. The self cleaning filter pre-installed within the tank ensures the stored water is clean and fresh.

WRAS approved mains water backup units are supplied as part of the system just in case the underground storage tank runs dry ensuring that the homeowner has a constant source of water without any user intervention.

STORAGE STATISTICS

WHAT WE HAVE BEEN DOING IN THE MARKET OVER THE YEARS



Over the years Rainwater Harvesting has been installed by the more 'water conscious' homeowners who acknowledge that water in the future will be a valuable resource

Since 2008 Rainwater Harvesting Limited has supplied systems that currently give their customers a combined storage volume of over 35 million litres of rainwater that they can use within their homes or in the garden.

Each system is designed to give the homeowner sufficient rainwater to cover a 21 day drought period.

According to the ONS since 2008 over 2 million new dwellings have been built. Based on the number of systems Rainwater Harvesting Limited have supplied this equates to 0.4% of new builds!

So if 0.4% of new builds from 2008 yields 35 million litres imagine what 40% would achieve!

WHAT ARE THE BENEFITS TO THE WATER PROVIDERS?

"IF WE DON'T TAKE ACTION, MANY AREAS OF ENGLAND WILL FACE WATER SHORTAGES BY 2050. WE NEED WATER TO SURVIVE; OUR BUSINESSES, INDUSTRY AND FARMERS NEED IT FOR THEIR CONTINUED PROSPERITY; AND OUR PRECIOUS NATURAL ENVIRONMENT NEEDS IT TO THRIVE."

Emma Howard Boyd - Chair of the Environment Agency

- Reduces strain on the existing water network
- Less requirement for large infrastructure investment costs
- Minimal environmental impact
- Assists reducing localised flood events
- Ownership and maintenance belongs to the homeowner
- Can be regulated to ensure standards maintained
- Any point of failure only affects the individual plot

- Can be revenue generating on multi home developments

WRAS APPROVAL

Rainwater Harvesting Limited is the only company within the Rainwater Harvesting market that has achieved WRAS Approval for our mains water backup systems.

This gives the Water Inspectors the confidence that the product has been rigorously tested to ensure it meets the standards required by the Water Providers.

- **2006006** - Backup in a Box for use with a Direct Feed System
- **2010039** - Rain Director for use with a Gravity Feed System



MEET THE TEAM

Rainwater Harvesting Limited have a huge depth of experience amongst it's team.

Rob Cooper and Ian Woodcock have been involved in the business since the very beginning, becoming leading market experts.

Richard Lester joined the business in 2015 and as a Product Design Engineer has developed and leads the R&D Department.

Tim Chantrell joined the business in 2020 and has very quickly become a rising star with his exceptional customer service and product knowledge.



ROB COOPER
Commercial Manager/Partner



IAN WOODCOCK
Sales Manager



RICHARD LESTER
Senior Technical Manager



TIM CHANTRELL
Sales / Technical

WHAT'S THE NEXT STEP?

Rainwater Harvesting Limited have invested heavily in it's R&D Department to ensure that we bring innovative, mass produced, easy to install rainwater harvesting systems to the market, all that encompass the high standards set by the water providers via WRAS.

There is no legislation in place to implement and benefit from rainwater harvesting in new build properties. This needs to change.

There are various options available to water providers to assist with the supply of water to new homes and also products available to assist with rainwater discharge.

Call us on **01733 405111** and we would be happy to discuss how rainwater harvesting could contribute towards the solution facing the future demands of potable water!



Contact us at info@rainwaterharvesting.co.uk.