



Developer Day Sustainable Development

Building a greener future for the North West

Agenda

- Introduction
- Making this work for all
- Known technologies
- Slido questions
- Smart metering
- Results from Slido



Sustainable Development

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Creating a more sustainable North West

As the North West provider of water and wastewater services to over three million households and businesses across the region it is our responsibility to do all we can to value the water in the North west and to safeguard the supply for future generations – reducing how much of it we use in our operations, in our work and in our homes; capturing and recycling it, and protecting its sources where we can.

This responsibility extends to our approach to developers – we want to work with you to ensure the properties of today, can withstand the challenges of tomorrow

Our collective challenge is to work out how to best:

- Reduce the amount of water used in new homes
- Look for ways to recycle water that is used, and
- Capture and use rainwater

Our current incentive scheme is already proving that working together to create more sustainable homes and a more resilient North West is working but we need to go further.



Making this work for all



Reducing water usage in new developments



Water efficient showers and shower heads can save more than a third of water and save on the energy required to heat it.



Flow regulators can be installed at the main feed into the property to limit the water flow. UU NRV2 trial saw overall savings of 15lpppd.



Dual flush or ultra low flush toilets are available with flushes as low as 1.5 litres per flush, compared to the UK average of 9 litres.

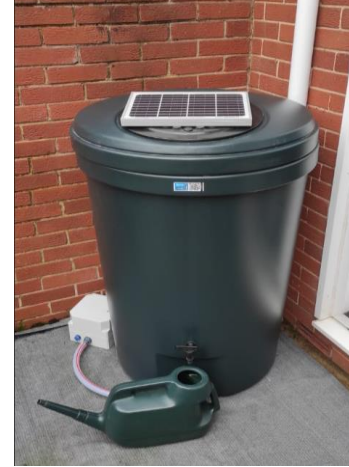


Choose energy and water efficient appliances if provided in your development. There is an intent for mandatory UK water labelling to be operational in 2024.

Water harvesting and reuse



Water butts come in different shapes, styles and sizes, holding between 100 and 700 litres of water.



Smart water butts maximise rainwater reuse and minimise surface water and sewer flooding - automatically releasing water when it's likely to rain to create storage capacity for rainwater.



A combined wash basin and toilet uses water from the sink to fill the cistern and flush the toilet, reducing the need for potable water.



An attenuation tank and supply plumbed into the home can replace potable water for flushing toilets, laundry and irrigation.

To further help manage surface water SuDS can be implemented at a property level, including rain gardens and swales for source control, or permeable paving for driveways, walkways or patio areas.



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How do we work together to build more sustainable homes?

1. Which of the technologies are you likely to consider for your future developments?

Water Butts

Smart Water Butt

Rainwater reuse system

Dual flush toilets

Grey water recycling

Ultra low flush toilets

Permeable paving

Flow restricted showers

Efficient white goods

Flow regulators



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How do we work together to build more sustainable homes?

2. What are the current blockers, what do UU need to consider?

Cost

Aesthetics

Payback

Space



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How do we work together to build more sustainable homes?

3. What payback period would make new technologies attractive?

2 years

5 years

10 years



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Developer Day

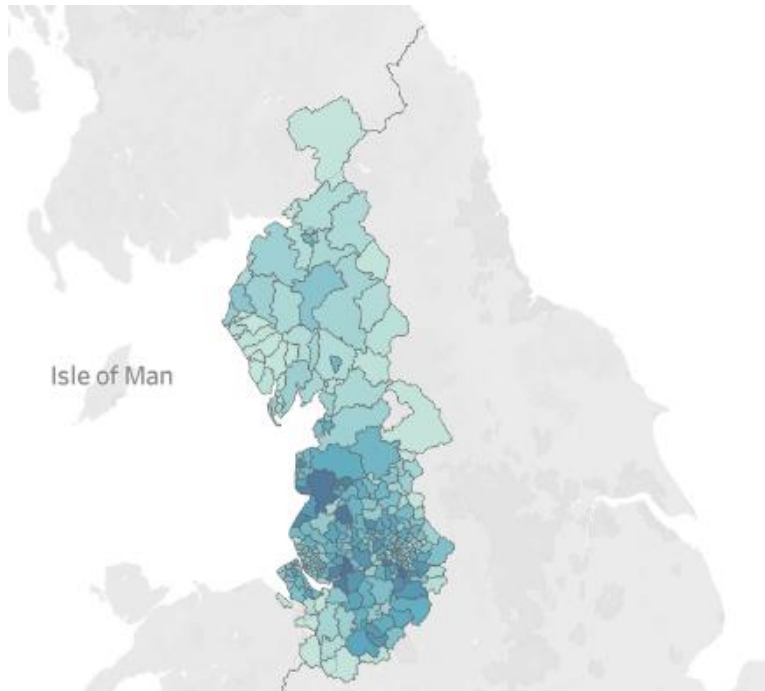
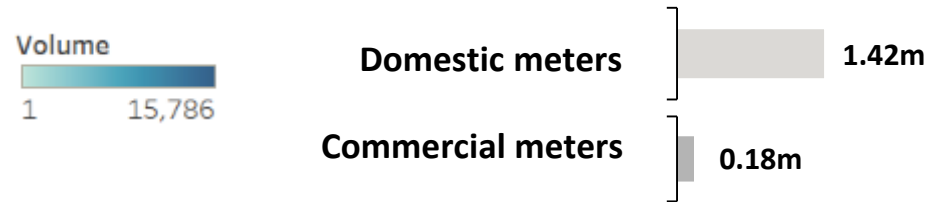


Project Beehive

Unlocking Value from Smart Meters

Current metering in United Utilities

We operate 1.6m meters, 89% of which are domestic. These meters are concentrated in the south of our region



We have one of the lowest water company HH meter penetrations (48%) and have modest AMP7 growth (+6% meter penetration)



Are meters are either read visually
or
Utilise AMR technology with the ability to
collect reads when driving or walking by

There is more demand for water and less predictable supply

Waterwise Water Efficiency Strategy 2022

There has been a **30%** increase in England's population from 1961 to 2021

More people



Each using more water

Personal water use in the home has increased by over **60%** since the 1960s

The future climate of North West England

The University of Manchester, June 2022

By 2050

Longer dryer summers

Summers will be **18%** drier

Winters will be **13%** wetter

Shorter wetter winters



UU is committed to water sustainability in the North West



We need to use our water more sustainably and more responsibly. This means using less and losing less. UU is committed to further reducing leakage and encouraging water efficiency to help ensure future water resilience.

Leakage

Leakage

50% (~224 MI/d) reduction by 2050
(compared to 2017 levels ~449 MI/d)

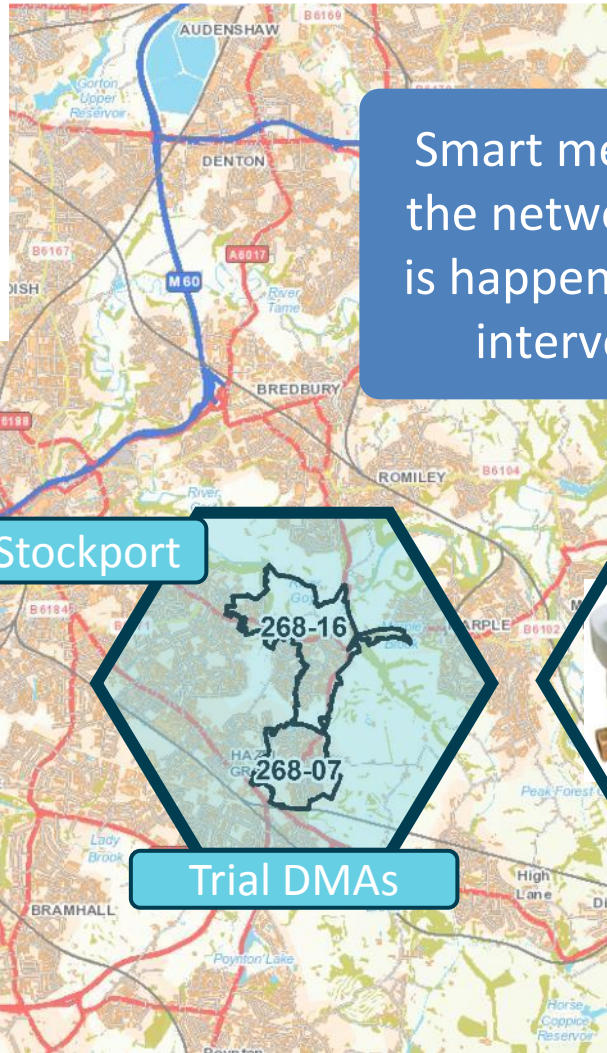
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Per Capita Consumption

110 litres/person/day by 2050

3000 Smart meters will be installed to shape thinking on the use of Smart meter data to reduce water use and losses

**Project
Beehive**



Smart meters are our eyes on the network. They tell us what is happening and help to guide intervention and action.

2 DMAs

2828
Connections



1. Help Customers to use less

2. Identify and fix customer side leaks

3. Identify need for Network leak repair

Will Smart metering help us deliver on our promise to customers?

We promise that you will have a reliable supply of water now and in the future

**Project
Beehive**



- 🔗 Project Beehive will assess the value of Smart metering and Smart data in saving water
- 🔗 This will shape the desired level of investment for Smart metering in AMP8
- 🔗 It is expected Smart metering at scale in AMP8 will help UU deliver on our promise to customers to ensure a reliable and sustainable water supply

Slido results

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Thank you

If you'd like to continue today's discussion then please feel free to contact us

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