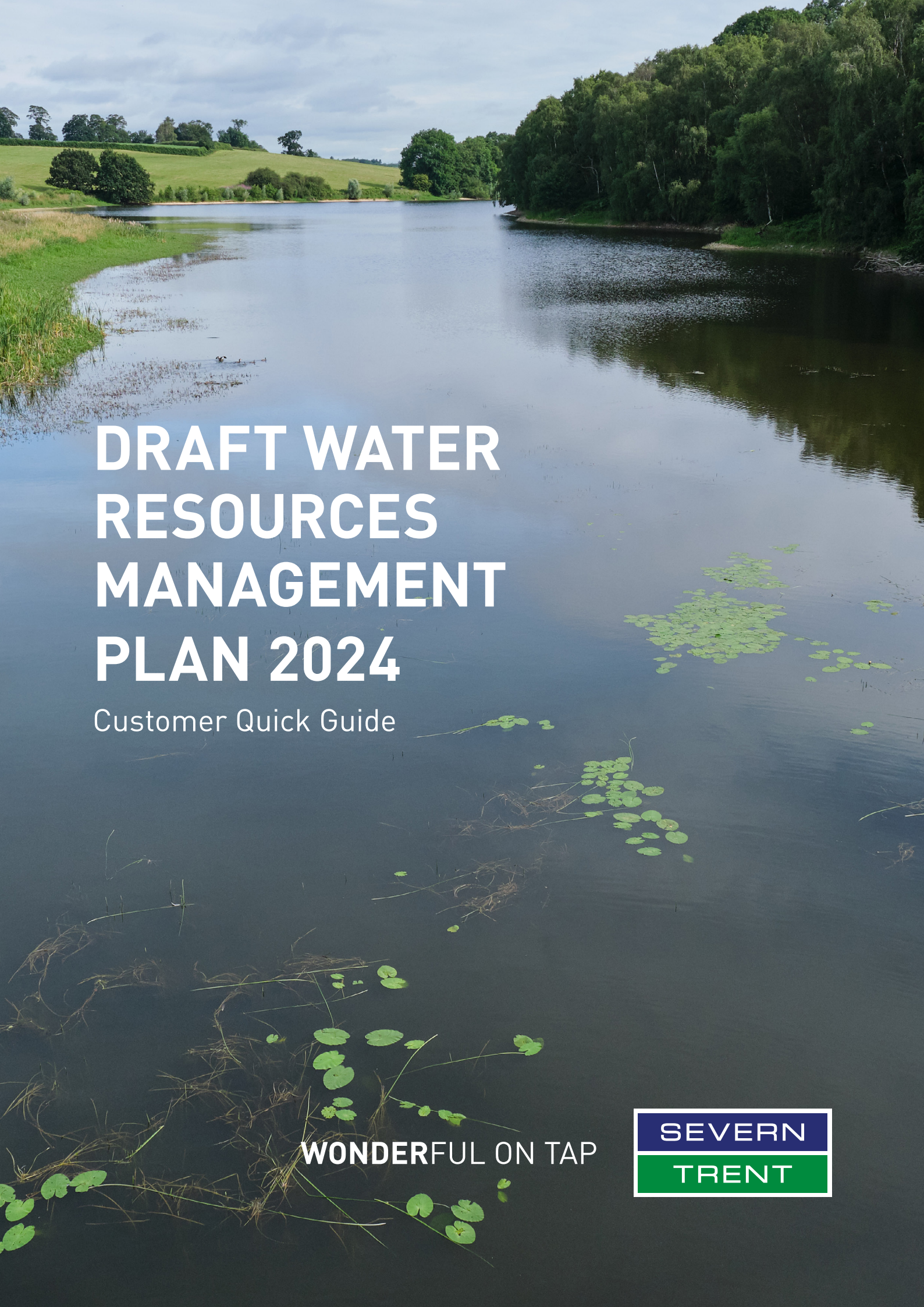

DRAFT WATER RESOURCES MANAGEMENT PLAN 2024

Customer Quick Guide

WONDERFUL ON TAP

SEVERN TRENT

At Severn Trent we provide 4.6 million homes and businesses with clean drinking water and wastewater services.

Every day we supply almost 2 billion litres of clean drinking water; that's about the same as you'd use for 25 million baths. We take water (we call this abstraction) from sources in and around the Midlands area; approximately a third of our water comes from below ground (Ground Water Sources), the remaining two thirds is taken from rivers, streams and reservoirs.

We treat this 'raw' water at one of our 150 Treatment works to make it safe for drinking then we use our network of 50,000km of water pipes and 800 treated water tanks to get it to your homes and businesses.

Like all water companies, we need to plan for the future. Our Water Resources Management Plan (WRMP) looks at how our water system works now, and the investments and activities we'll need to meet the challenges of the next few decades. This is our fifth WRMP, and we'll continue to review it in the years to come.

This is, however, the first time we have worked with other companies and sectors to develop WRMPs at a regional and national scale. We are active members of Water Resources West, and are working hard to support Strategic Water Resource Options, which bring together water resource management nationally.

Our water system is large and complex; the changes we make go beyond engineering, they include education and innovation. These changes will take time and cost a lot of money, so we have to look at this over the long term, to ensure we tackle things at the right time and keep our customers' bills affordable.

WHAT ARE THE MAIN THINGS WE NEED OUR WATER SYSTEM TO DO?

Abstract and treat raw water to produce clean and safe drinking water

Deliver our promise to reduce leakage by 50% by 2045

Provide increased capacity and connectivity to ensure we are resilient to more extreme drought, transitioning to a 1 in 500 year level of resilience by 2039

Do all of this whilst protecting the environment

We need your help too. We all use water in different ways, and taking action to use every drop wisely will help to make sure there is enough to go around for generations to come.

WHAT IS GOING TO AFFECT OUR WATER SYSTEM IN THE FUTURE?

Climate Change, population growth, and increasing focus on protecting and improving the environment are the main factors that will have an impact. In most cases we believe they will increase the pressure on our water system:

- By 2050, we are planning for temperatures in the Midlands being on average 2.6°C warmer than today, with 16% less rainfall. This means hotter, drier summer periods when demand for water is most acute. Winters are likely to be wetter, but with more extreme heavy rainfall events. This increases the risks of flooding, but also changes the quality of the raw water we abstract.
- We forecast that by 2050 the population we serve will have grown by 12%; the third fastest of any region in the UK. Most of this growth will be around existing towns and cities, creating even more demand for water.
- Preventing environmental harm caused by water abstraction is a priority for us all. The Environment Agency requires us to reduce our reliance on sources that may become unsustainable.

If we did nothing we could see:

- A 540 million litre per day shortfall in supply.
- Increasing level of service failures over time, resulting in more frequent supply interruptions, increased leakage, Temporary Use Bans (TUBs), Non-Essential Use Bans (NEUBS) and emergency drought orders.
- Severn Trent causing environmental harm and breaching regulations.

WHAT DO WE PLAN TO DO OVER THE NEXT 25 YEARS AND BEYOND?

We are currently planning how our water system will look and operate in 2050, but we need to start working on this now. There's a lot to do to; we need to phase this correctly to solve challenges at the right time and spread our investment to make it most effective.

To do all this we need to invest an average of £218 million per year (Total Expenditure) between now and 2050. To reach our long term targets would mean an annual incremental increase on customer bills of £1.73, so bills would be £43 higher by 2050.

Here is what we're planning to do across our region between now and 2050:

	Benefit (per day)	By when
Roll out universal metering	52 million litres	2035
Reduce leakage by 50%	135 million litres	2045
Deliver the Severn Trent Efficiency Plan	37 million litres	2050

At the same time, we plan to deliver the schemes detailed below. These will ensure water supplies can cope with a 1 in 500 year drought by 2039, whilst keeping pace with climate change and the requirements set out by the Environment Agency by 2050. All figures shown are daily increases in water supplied. Schemes marked with an * in the tables below are internal transfers, and the benefit per day shows the maximum expected utilisation in the planning period.

Between 2025 and 2030

	Benefit (per day)
Transfer from Strategic Grid to Notts	37 million litres*
Carsington to Tittesworth Transfer	30 million litres*
United Utilities Vyrnwy release to River Severn	25 million litres
Expand Strensham Water Treatment Works	15 million litres
Expand Shelton Water Treatment Works	12 million litres
Expand Draycote Reservoir	9 million litres
Expand Homesford Water Treatment Works	5 million litres
Increase output from Little Eaton Water Treatment Works	5 million litres
Increase output from Whitacre Water Treatment Works	4 million litres
Increase output from Trimpley Water Treatment Works	4 million litres

Between 2030 and 2035

	Benefit (per day)
End Derwent Valley exports to Yorkshire Water	35 million litres
Internal import to Mardy starts	1 million litres
Exploration of United Utilities import to Shelton	N\A
Exploration of raising levels at Tittesworth	N\A
Exploration of increasing storage at Derwent Valley	N\A

Between 2035 and 2040

	Benefit (per day)
United Utilities import to Shelton starts	25 million litres
Start work to raise levels at Tittesworth	n/a
Start work to increase storage at Derwent Valley	n/a
Start work to provide a new Water Treatment Works near Stafford	n/a

Between 2040 and 2045

	Benefit (per day)
New Water Treatment Works near Stafford	23 million litres
Expand Ogston Water Treatment Works	15 million litres
Continue work to raise levels at Tittesworth	n/a
Continue work to increase storage at Derwent Valley	n/a
Start work on new Water Treatment Works at River Weaver	n/a
Start work on new Water Treatment Works in Nottingham on River Trent	n/a
Start work at East Midlands Quarry (site 1)	n/a
Start work at West Midlands Quarry	n/a
Start work on third party reservoir and new treatment works	n/a
Start work on new groundwater source near Soar	n/a

2045 to 2050 and beyond

	Benefit (per day)
Complete expansion at Carsington reservoir	110 million litres
Derwent Valley storage increase	60 million litres
Complete new storage at East Midlands Quarry site 2	45 million litres
Complete new storage at West Midlands Quarry	33 million litres
Complete work on new Water Treatment Works in Nottingham on River Trent	30 million litres
Transfers from Grid to Notts (Ambergate)	30 million litres
Birmingham to Wolverhampton link	32 million litres*
Complete new storage at East Midlands Quarry site 2	24 million litres
Complete work on new Water Treatment Works on River Weaver	20 million litres
Third Party Reservoir and new Treatment works	18 million litres
Carsington to Tittesworth transfer (phase 2)	16 million litres*
Oldbury to Meriden link	15 million litres
Complete Tittesworth Reservoir storage increase	14 million litres
Hampton Loade to Nurton link	12 million litres*
Dam extensions at Whitacre, Stanford and Shustoke	9 million litres
Blackbrook reservoir	8 million litres
Imports from United Utilities to North Staffs	8 million litres
Milton groundwater source	5 million litres
Complete new groundwater source near Soar	5 million litres
Increase output from Draycote Water Treatment Works	4 million litres
Recommission groundwater source at Elmhurst	2 million litres
Increase output from Campion Hills	2 million litres
Ruyton support link main	1 million litres
Import from United Utilities to Kinsal	1 million litres

LISTENING TO YOU

It's important that you get the chance to have your say on our plans. We've already spoken to many of you to understand what you think about the long-term challenges we face and how we plan to solve them, but we welcome further views.

This is a quick summary of what we're doing and why, but you can see more detail in our full Draft WRMP at **stwater.co.uk/about-us/our-other-plans/water-resources-management-plan**

You can tell us what you think before **22nd February 2023** by emailing: **water.resources@defra.gov.uk,** copying in **future.consultation@severntrent.co.uk,** including the following in the subject box:

Severn Trent Water dWRMP Consultation Response. If you wish to provide feedback by post, the address is:

Water Resources Management Plan Consultation
Defra, Water Resources
Seacole, 2 Marsham Street
London SW1P 4DF

We'll review all feedback to refine our priorities and pace. We'll then publish our final WRMP in autumn 2023, shortly followed by our business plan submission.

You can see the draft Regional WRMP created by Water Resources West at: **waterresourceswest.co.uk/publications**

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