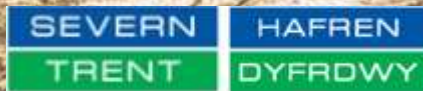


STORM OVERFLOWS TWO WATER COMPANY STRATEGIES

Margaret
Williams



TWO WATER COMPANIES

Hafren Dyfrdwy

We provide clean water to around **100,000 customers** and wastewater removal and treatment for around **40,000 customers** in the heart of Wales.

We're only 28% of the size of Portsmouth Water, the second smallest water company, and only 2.4% the size of South West Water, the second smallest wastewater company.

Our average bill is less than £1 a day, the lowest in Wales (and England).



Severn Trent

We provide clean water and wastewater removal to **over 9.3 million customers** in the heart of the UK.

And we take away **3.1 billion litres** of wastewater from **4.5m homes and businesses** and are responsible for 92,500 km of sewers.



Awarded the **top 4*** rating by the Environment Agency for our environmental performance.

TWO COUNTRIES

Wales

Water Strategy for Wales (2015)
Environment (Wales) Act 2016

Better river water quality taskforce (CCW,
Ofwat, Afonydd Cymru, NRW, Welsh Water
Hafren Dyfrdwy)

GN066 New Classification Document

- Collation of Permit Review
- Design Review
- Harm Investigation

Reported to NRW
Working collaboratively
with Welsh Water on
combined reporting
approaches



Environment Act 2021

Storm Overflows <10

- Screening Control
- Ensure no storm overflow is causing

Different legislation and documents.
Focus mostly on the same thing.
No legislation outlying spill reduction
down to 10 in Wales



England



Reported to EA

Collated into one English
Storm Overflow Action Plan

SEVERN TRENT & HAFREN DYFRDWY STORM OVERFLOW PLAN

Our Storm Overflow Plans are embedded within our DWMPs, LTDS and our PR24 plans. The core analysis from our DWMP modelling has been used throughout all elements.

Thank you to all those modellers who have worked so hard to ensure the models are fit for use and have carefully set up simulations and assessed results from them!!



PICK
EVERARD

AtkinsRéalis

WSP

RPS
A TETRA TECH COMPANY

raa
CONSULTING ENGINEERS
an RSK company

intertek
Total Quality. Assured.

SEVERN	HAFREN
TRENT	DYFRDWY

SEVERN TRENT RIVER PLEDGES

Our five pledges to help transform the rivers in our region by 2030

We have reduced phosphate and ammonia from our operations since 1990s by **80%** and **72%** respectively

16% of RNAGs¹ are attributable to the water industry and we are **supporting others** to reduce their share too

We have **further to go** and welcome recent focus and tougher environmental targets

EPA 4 Star Company

2018 - 2022

**ongoing investment
£384m**

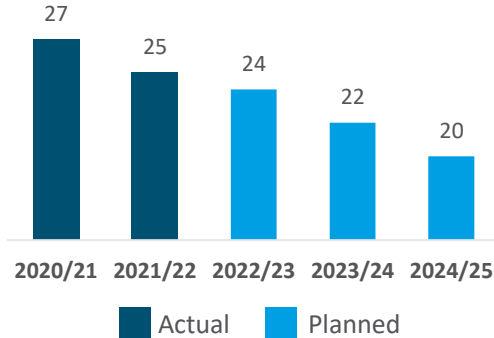
Linked to storm overflow improvements



Our pledges		
1. No harm to rivers from our operations	2. Bathing quality rivers	3. New deal for farmers
	4. New habitats for wildlife	5. Transparent reporting on progress



We will reduce the average number of spills to 20 by 2025



We will reduce the number of RNAGs to ZERO by 2030

Ambition

TODAY	960
2025	700
2030	ZERO



GREEN RECOVERY

£565m new investment to boost the economy and creating c2500 jobs

...delivering even greater benefits for customers...

tackling long term problems and sharing the learning

...continuing to build long-term trust in the water sector.



Flood resilient communities

Increased flood resilience protecting around 90,000 people



Taking care of supply pipes

up to 26,000 homes protected from lead



Rivers safe for swimming

c5km of bathing rivers (with improvements across 49km)



Decarbonising water resources

69 MI/d net zero water (118ktCO₂ new green energy – unfunded)



Helping customers save water

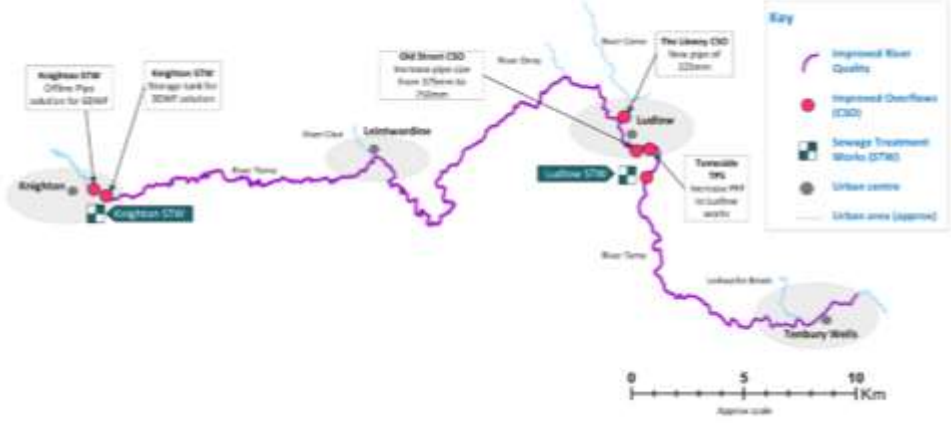
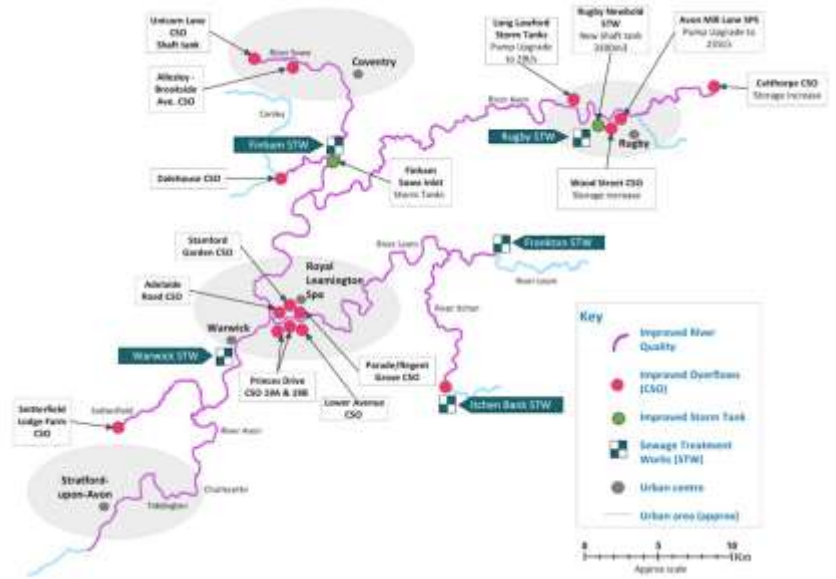
157,000 smart meters



Faster environmental improvements

over 500km of rivers improved to meet WFD

- Installing advanced treatments at our sewage works 
- Improving storm overflow performance 
- Enhancing catchment management 
- Working in partnership to maximise the societal benefits 
- Providing real-time information on water quality 



Green Recovery Bathing Rivers

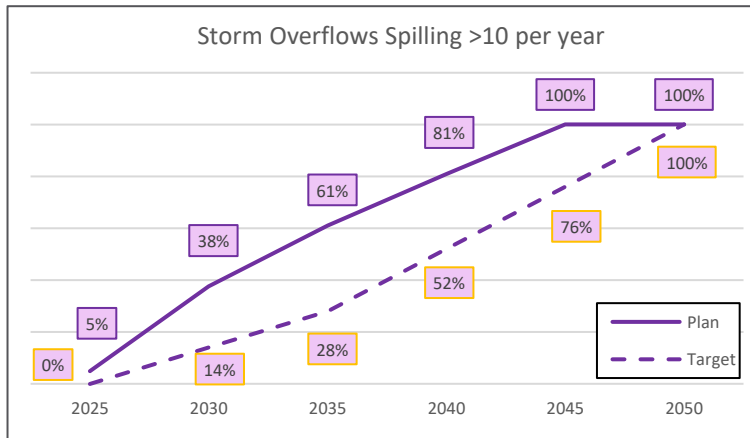
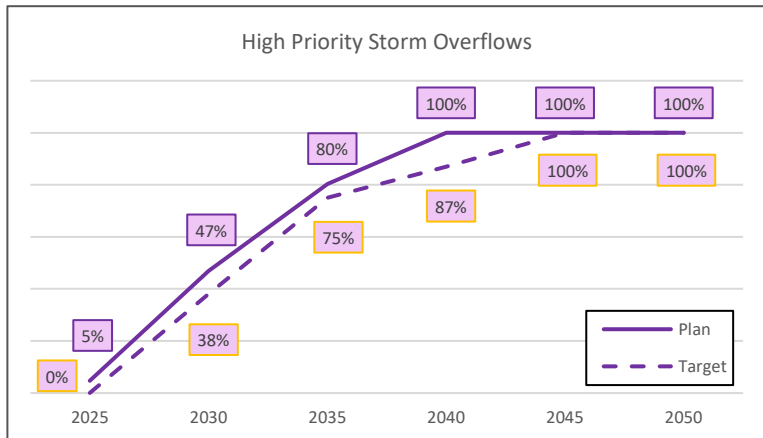
A new approach to improving the quality of our rivers - driving holistic catchment outcomes

SEVERN TRENT STORM OVERFLOW PLAN

We are focusing on harm and on nature-based solutions

Collectively this will mean we are ahead of our government targets for sites by 2030 and met the high priority and all asset base targets an AMP early

	2025	2030	2035	2040	2045	2050
High priority storm overflows						
Number of high priority storm overflows improved	50	455	358	257	0	0
% of high priority site storm overflows improved	5%	47%	80%	100%	100%	100%
SODRP target values	-	38%	75%	87%	100%	100%
Storm overflows spilling > 10 per year						
Number of storm overflows spilling >10 per year improved	82	546	382	315	399	0
% of total storm overflows spilling >10 per year improved	5%	38%	61%	81%	100%	100%
SODRP target values	-	14%	28%	52%	76%	100%

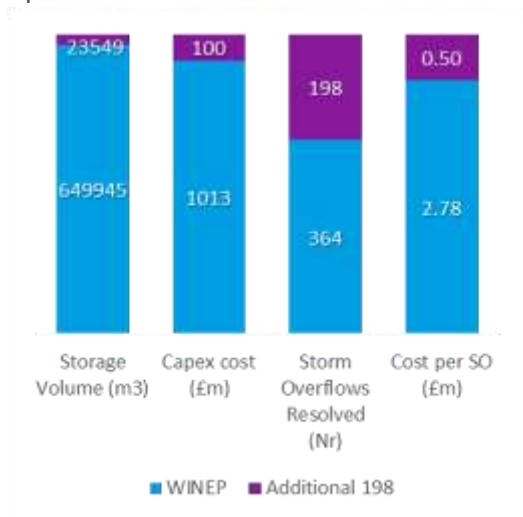


Values based on update to Defra November 2023

SEVERN TRENT AMP8 STORM OVERFLOW PLAN

Our storm overflow plan for AMP8 includes focusing on

- WINEP 364 sites that are defined as causing harm, align with our wider major improvements at works and / or in high priority rivers (RNAGs, SOAFs, SSSIs or SACs)
- 198 sites that are most cost effective to reduce spills with nature-based solutions
- Total proposed enhancement investment of £1.1bn



Why focus more on Nature Based Solutions in AMP8?

“Longer term solutions that could result in a better system... if there was a clear strategy, I would be happy to pay more”

Household customer, DWMP research



From our online customer panel, 76% of those who responded agreed that where *‘there is a choice, and where the two types of solutions would be equally effective, they would prefer Severn Trent to adopt sustainable solutions to manage surface water drainage’*.

For the 562 storm overflows 60% of the improvements are planned to include nature based solutions

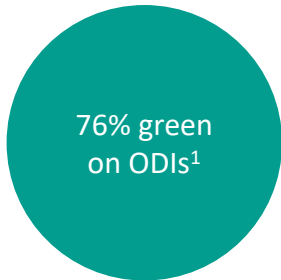
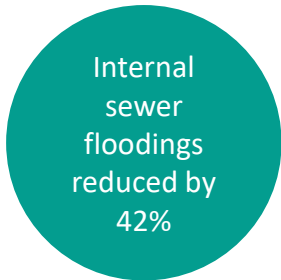


HAFREN DYFRDWY RIVER PLEDGES

We recognise the vital role that our region's rivers play, and that there is much more that we can do to make them the healthiest they can be

				
Ensure storm overflows & sewage treatment works do not harm rivers	Creating more opportunities for everyone to enjoy our region's rivers	Support others to improve and care for rivers	Enhancing our rivers and creating new habitats so wildlife can thrive	Be open and transparent about our performance and our plans

We've pledged to do more for our rivers by 2030



Continued excellent record of **no serious pollutions for over 10 years**

Equalled **best ever pollutions performance for water and waste**

Our pledges, and the **commitment** we have made to the Better Water Quality Taskforce, are some of the many steps we are taking to **improve** the quality of rivers within our region.

Driving investigation to understand and differentiate between:
(i) site specific factors, and
(ii) wider asset improvement

On-track with our capital NEP programme, delivering a reduction in RNAGs attributable to us in our area to c3.5% by the end of the AMP

HAFREN DYFRDWY STORM OVERFLOW PLAN

Our plan is based on a combination of our internal ambitions and the NRW new classification document

Internal Ambition

- No storm overflow spill more than 20 times in a typical year by 2050
- Progressive reduction in full asset base spill frequency average

NRW new Classification document

- All assets kept within permit conditions
- Fair share of harm from our assets resolved
- Improvement of asset design to increase screening and structure set up

	2030	2035	2040	2045	2050	TOTAL
Number of Harm site storm overflows improved	0	2	0	0	0	2
Number of storm overflows spilling >20 per year improved	0	7	7	9	8	31
Number of storm overflows with screen only improvements	0	0	3	4	3	10

Internal plan is aligned to DWMP but ambition is to go faster

AMP8 NEP – investigate all storm overflows and feasibility for Newtown for a wholistic place based strategy approach.

AMP8 Base Investment – optimisation improvements within our system

DO YOU HAVE ANY QUESTIONS?

