

# Essex Flood Board Anglian Water Update

**Jonathan Glerum**

Regional Flood Risk Manager  
Anglian Water

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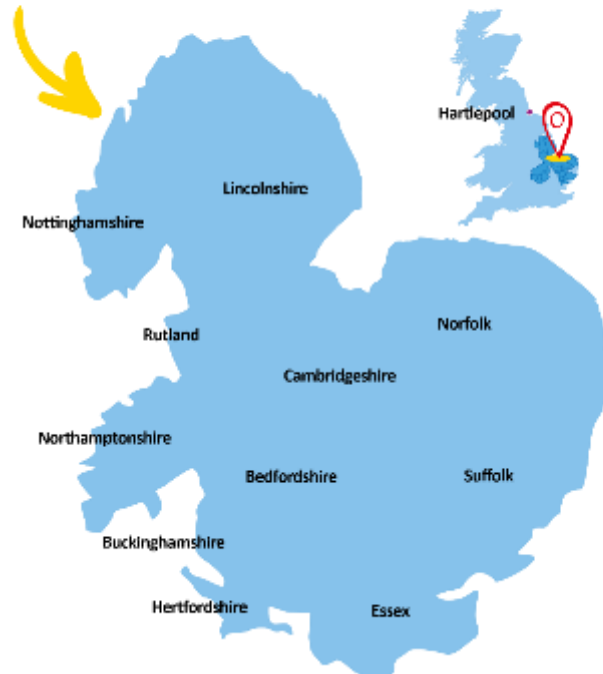
6th July 2022



# Our Water Company

Our purpose (which is enshrined in our Articles of Association – our constitution) is to bring environmental and social prosperity to the region we serve through our commitment to Love Every Drop

The **largest** water and water recycling company in England by geographic area



Employing more than

**5,000**  
people

Serving almost

**7 million**  
customers across the  
East of England and Hartlepool

The driest region in  
the UK with

 **2/3**  
of the national average  
rainfall each year



One of the UK's  
fastest-growing regions,  
projected to grow by

**175,000**  
homes by 2025

Operating more than

**76,000km**

of sewers -  
almost twice  
the world's  
circumference! - and **1,128**  
water recycling centres.

A blue pipe with three manhole covers. The pipe starts from the left, goes down, then turns right and goes up. A globe of the Earth is positioned at the end of the pipe, with an arrow pointing from the pipe into the globe.

# Flooding in context: mitigation and adaptation

Flooding and other risks from climate change are at the heart of our long-term investment planning, recognising that events on this scale will become more frequent

## Our long-term ambitions

Created in 2007; refreshed in 2017



**Make the East of England resilient to the risks of drought and flooding.**



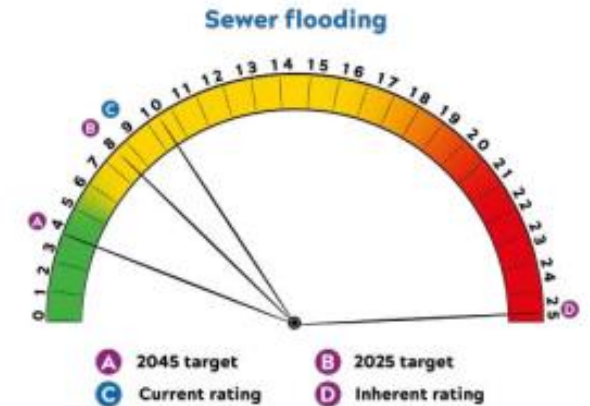
**Enable sustainable economic and housing growth.**



**Work with others to achieve significant improvement in ecological quality across our catchments.**



**Be a net zero carbon business by 2030.**

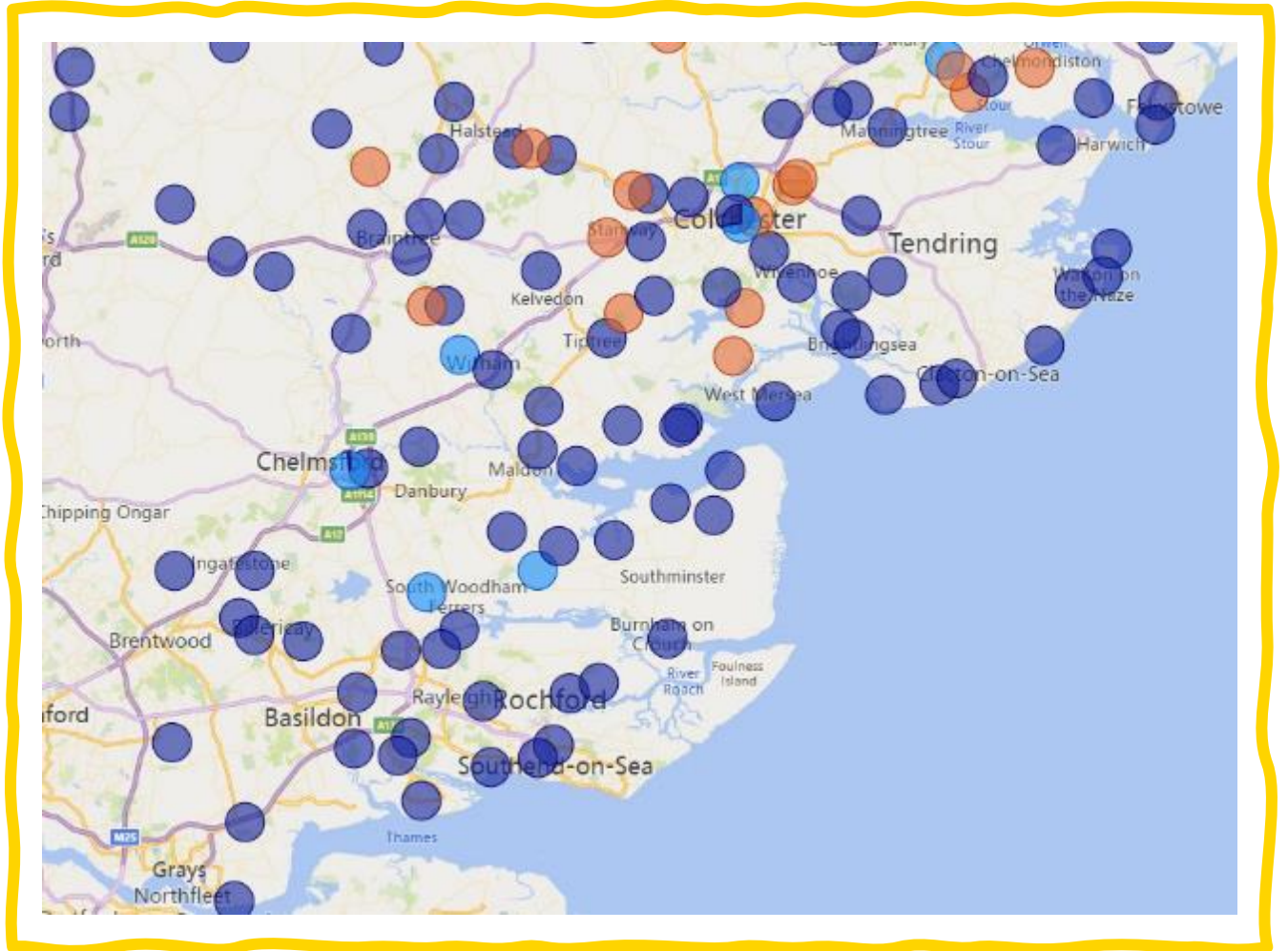


- Challenges of climate change first assessed in 1993 and fully addressed in 2007 strategic direction statement
- Adaptation Report – first company to set out plans in latest round of reporting in 2020
- Water Recycling Long Term plan: 2018 became first in the industry to set out how we'll manage the supply of water recycling services over 25 years, informed by climate change and population projections
- 2020 Anglian Water joins CDP's global A List for our response to climate change

# Mitigation and adaptation investment plans

Flood risk management, reducing pollution and managing growth are at the heart of our long-term investment planning

- We recognise that:
  - **Flood events** will become more frequent
  - **Pollution** of watercourses is unacceptable
  - Our communities continue to **grow**
- As such, we have **significant investment** planned across Essex this AMP.
- More than **£136 million** planned to invest over the 5 year period from 2020 to 2025.
- Most significant investment (**£2.5m+**) at:
  - Southend
  - Walton On The Naze
  - Great Dunmow
  - Billericay
  - Chelmsford
  - Thorrington
  - Maldon
  - Great Bromley





# Partnership funding and collaboration

Working in partnership is the most effective way to secure resilience

- **£7.5 million** invested between 2015 and 2020 through our **Partnership Funding** programme towards 49 flood protection schemes that help protect customers and our assets, including retrofit projects at Park Ave, Canvey, Brick House Farm, Maldon, and Basildon Hospital.
- We work with **all our Lead Local Flood Authorities** and a myriad of other Risk Management Authorities, including Internal Drainage Boards, Districts Councils, Highways Authorities and the Environment Agency to manage flood and coastal erosion risk.
- **50 per cent increase in the Partnership Funding programme** to £12 million between 2020 and 2025. We will continue to work with partners to explore opportunities to work in partnership to manage multiple sources of flood risk and increase resilience across our region.
- We **continue** to support projects across the wider Essex area, including at:
  - Walton on the Naze
  - Colchester
  - Benfleet
  - Thames Estuary 2100
  - Catchment to Coast FCRIP project.



Park Ave, Canvey Island



Brick House Farm, Maldon



# Investment in resilience – long-term planning to mitigate and adapt

Tactical management of the current incident underpinned by decades of strategic planning, risk management and investment in resilience; we're committed to mitigating and adapting to the increasing frequency of such events

- **c.£1.5 billion** to be invested company wide on resilience, environmental protection and asset improvement 2020-2025.
- Between 2015 and 2020 schemes implemented at 36 Anglian Water sites to improve resilience to flood - **£600,000 + spent at 13 water sites**; almost **£600,000 spent at 23 water recycling sites**
- We're one of the only companies to have actioned the recommendations of the Pitt Review; all assets were assessed and defended for fluvial, pluvial and coastal flooding in 2012; with **assessments updated and revised in 2017**.
- Range of flood risk scenarios considered, from a **1-in-20-year flood** (5 per cent) to a **1-in-1,000-year flood** (0.1 per cent)
- Investment planned at:
  - Braintree
  - Purleigh
- Certification to **ISO 22301:2012** for business continuity
- Monitoring systems – **largest telemetry system in Europe** – bigger than those of Thames Water and United Utilities combined



Flood swinging barrier and stop logs at Bocking Water Treatment Works.



J-Bar flood barrier around critical equipment with swinging barrier at Gosfield Water Recycling Centre

# We welcome scrutiny on our water recycling and pollutions

Over the next five years we're investing £811 million as part of our Water Industry Natural Environment Programme – the largest programme of any water company

## Setting the scene: the big picture

Across the UK combined sewer overflows contribute just 4% of the reasons why UK rivers are not high quality (and only 1% in the East of England).

Other drivers impacting river water quality include:

- Agriculture and rural management
- Urban development and transport
- Non-native species
- Misconnected plumbing

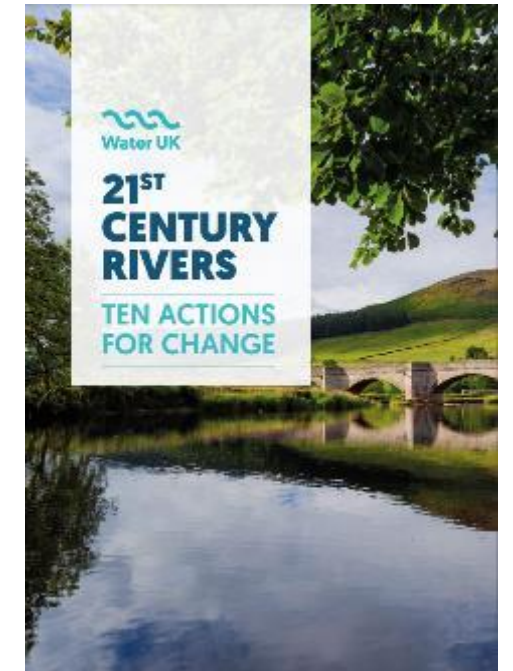


## Storm spills investment in numbers

- Accelerated £200 million+ AMP7 programme
- Installing more storm tanks: £80 million
- Increasing capacity at water recycling centres, reducing the risk of spills to the environment: £56 million
- Targeting investment to increase monitoring, directly reduce spills and pollutions, and protect the environment: £46 million
- Improving bathing water quality: £21.5 million
- Installing sustainable drainage solutions: £20 million

## The future we want to see

- The statutory need to tackle storm overflows ensuring prioritisation through the price review process
- A new, jointly owned national plan for rivers
- An end to the automatic right to connect
- A ban on wet wipes that don't meet Fine to Flush standards
- Collaborative action to restore rivers and natural habitats





# Get River Positive

Rivers are the lifeblood of our communities, and we know there is more we need to do in making all our rivers the healthiest they can be. Get River Positive is a firm commitment to act now to protect and revitalise rivers.

Joining forces with Severn Trent, we are pledging to Get River Positive by 2030.

This means we will strive to do no harm to rivers and do everything we can to ensure they thrive.



## Our five Get River Positive commitments

- ▶ Ensure storm overflows and sewage treatment works do not harm rivers.
- ▶ Create more opportunities for everyone to enjoy our region's rivers.
- ▶ Support others to improve and care for rivers.
- ▶ Enhance our rivers and create new habitats so wildlife can thrive.
- ▶ Be open and transparent about our performance and our plans.





# Working together for future resilience

Driving meaningful, effective and continual multi-agency, cross-sector collaboration

## Actions we're taking

- Ongoing investment in resilience
- Sewer maintenance and infiltration reduction continues
- Current consultation for our **Drainage and Wastewater Management Plan** – [click here for details](#).
- Working with partners including Water Resources East, the Environment Agency, Defra, local MPs and authorities to manage water effectively – **Essex Water Strategy**



## What more do we need?

- Regulatory frameworks that support long-term investment in resilience
- Remove the **automatic right to connect** surface water from new developments as recommended by the Pitt Review
- Updated planning guidance to reflect new environmental policy objectives and SuDS.

Please contact us if you have any questions, queries or issues you want to discuss:

[jglerum@anglianwater.co.uk](mailto:jglerum@anglianwater.co.uk); 07545 435 546

or

[Public.Affairs@anglianwater.co.uk](mailto:Public.Affairs@anglianwater.co.uk)

# Thank you for listening

