Water Resources East

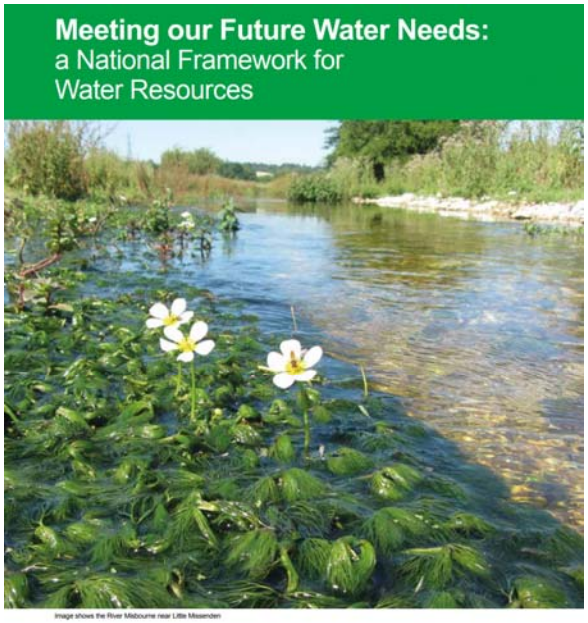
Dr Robin Price

Managing Director

Who are Water Resources East?

WRE
WATER RESOURCES EAST

We are one of five Regional Planning Groups operating as part of a National Framework for Water Resources



Environment Agency

Who are Water Resources East?

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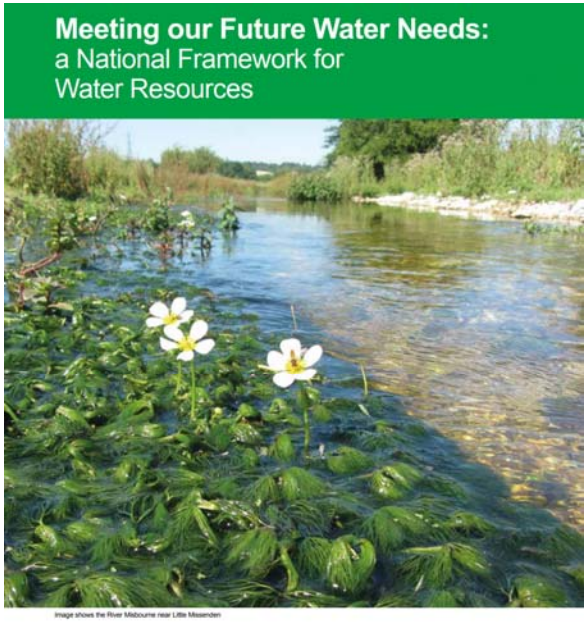
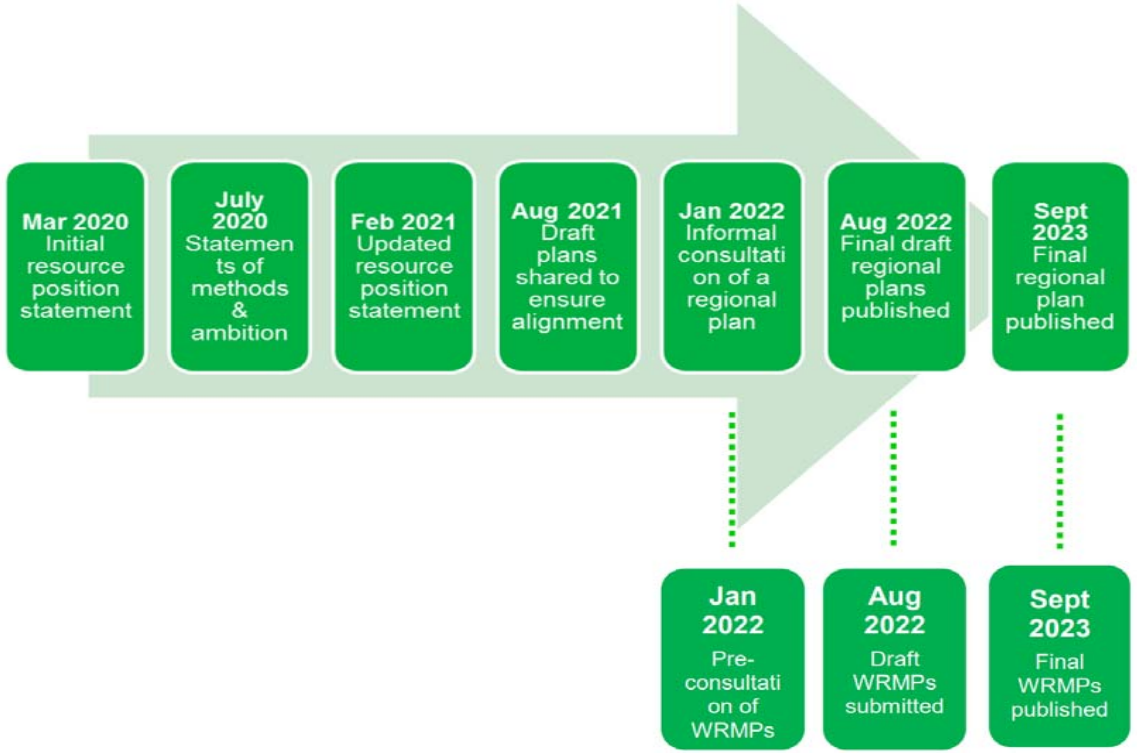
We will publish a Regional Plan in September 2023, in line with National Framework timescales.



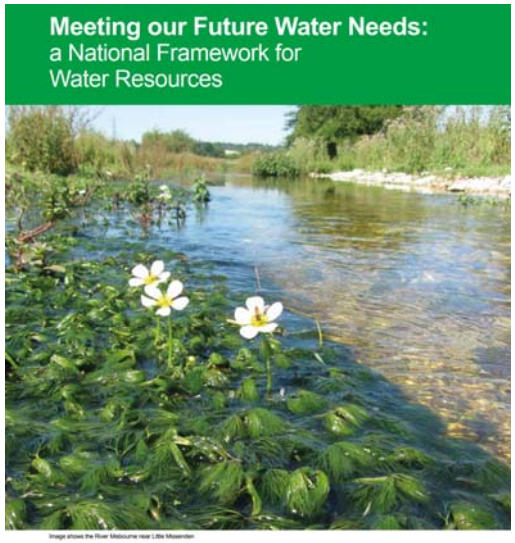
Environment Agency



Defining WRE's Regional Plan

WATER RESOURCES EAST

A single, multi-sector Regional Plan for water management across Eastern England, working with water companies, Local Authorities and Local Enterprise Partnerships, the energy and agricultural sectors, landowners and environmental NGOs. Through co-creation, engagement and collective decision making, our plan will:



Environment Agency

- Increase the level of resilience for water resources for all sectors and the environment.
- Deliver wider benefits in terms of flood risk, river flows and water quality.
- Ensure that water (either too much or not enough) is not a barrier to economic development in the region.
- Identify opportunities and delivery mechanisms to restore and enhance the environment, in line with the biodiversity net gain and wider aspirations of the 25 Year Environment Plan.
- Explore innovative funding and delivery models for water management solutions.
- Promote schemes which represent the best value for the region, seeking through collaboration to deliver more efficient solutions.
- Co-deliver the water related elements of other key regional strategies and plans,
- Focus on delivery of water-related climate change mitigation and adaptation strategies including net zero carbon ambition.
- Provide academically rigorous evidence to policy makers.

How does WRE work?

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CERTIFICATE OF INCORPORATION
OF A
PRIVATE LIMITED COMPANY

Company Number **12057670**

The Registrar of Companies for England and Wales, hereby certifies that

WATER RESOURCES EAST (WRE) LIMITED

is this day incorporated under the Companies Act 2006 as a private company, that the company is limited by guarantee, and the situation of its registered office is in England and Wales.

Given at Companies House, Cardiff, on **18th June 2019**.

The above information was communicated by electronic means and authenticated by the Registrar of Companies under section 1115 of the Companies Act 2006

Companies House

THE OFFICIAL SEAL OF THE REGISTRAR OF COMPANIES

WRE
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Consultation Group

Strategic Advisory Group

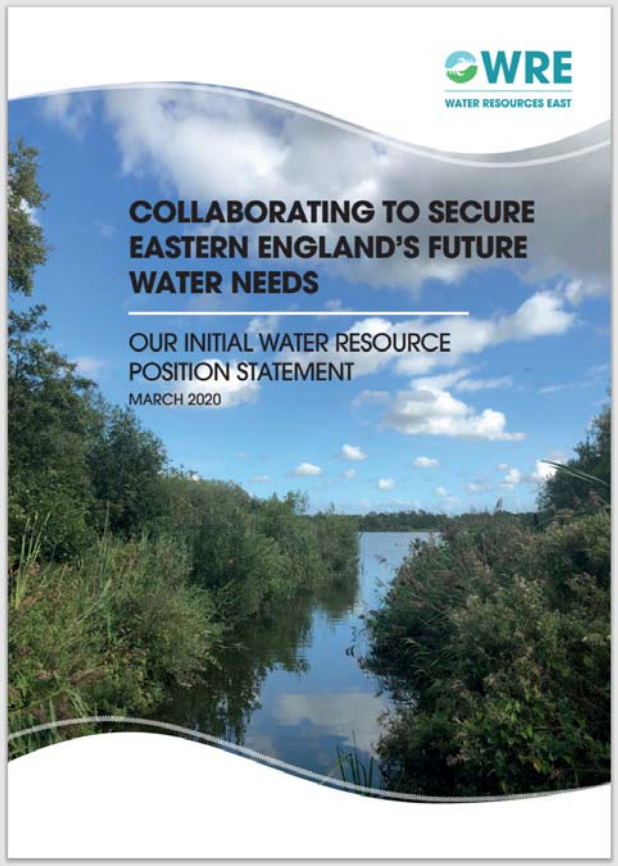
Multi-sector Board of Directors
(co-funding the operation of the company)

Current Board Members

Board of Directors:
Water Companies, agriculture, energy, the environment and regional development/Local Authorities

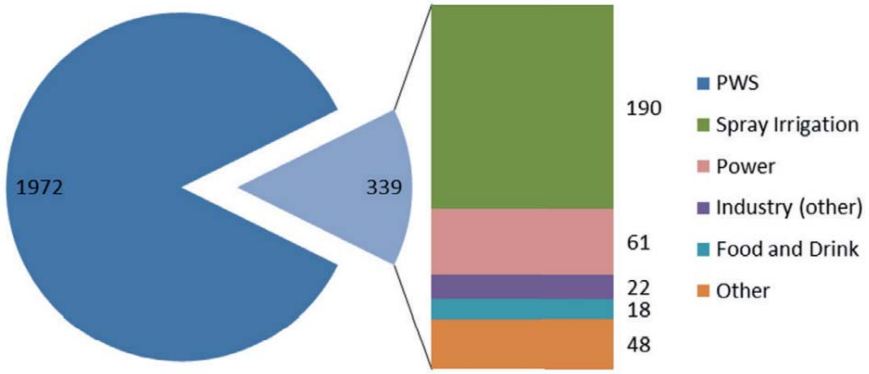
Water Resources East Membership

What is the problem we're trying to solve?



BASELINE (2020/21):

On an average day, in a dry year, the total consumptive demand for water in the WRE region is equivalent to 2,311 million litres (megalitres) per day. Most of this water (85%) is used for public water supply (PWS). Most of the rest is used for spray irrigation (8%), power generation (3%) and in the manufacturing, food and drink sectors (2%). A breakdown in megalitres per day (Ml/d) is given below:



Eastern England in the 2050s.....

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Sector	Pressure	Dry Year Annual Average Estimated Impact (Ml/d)		Comment
		Lower	Upper	
Public Water Supply	Climate Change	54	180	Includes range of possible high/low climate change impacts - mostly on reservoir yields
	Sustainability Reductions	139	500	Upper limit accounts for indicative levels of enhanced environmental ambition
	Growth (population)	159	408	Upper limit accounts for maximum possible build-out rates in OxCam Arc and failure to make significant progress with planned demand management measures
	Drought resilience	88	88	Note: methodology uncertainties which are subject to work in progress
	Regional exports	(-)	(-)	Unknown at this stage, although 100 Ml/d export is currently assumed for work on the South Lincolnshire Reservoir scheme
Power	Decarbonisation	17	192	Assumes rapid transition to Hydrogen economy with 20% of the national production in WRE region
Agriculture	Growth (irrigation)	74	288	Based on range of plausible growth factors for spray irrigation in the WRE region
	Total	**531**	**1,656**	

Our strategy.....

Working with all water users in Eastern England to identify ways in which they can become as water efficient as possible

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Our strategy.....

Promoting the need for additional storage of water within the landscape, increasing resilience for all water users and seeking to identify multi-sector opportunities to link water scarcity with flood risk management solutions

Our strategy.....

Transferring water from areas of surplus to areas of deficit, seeking to increase connectivity using both open water channels as well as pipelines

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Our strategy.....

Linking land and water management more effectively, increasing resilience and restoring and enhancing the natural systems and resources on which all abstractors depend.

Department for Environment Food & Rural Affairs

NFU

CLA

Environmental Land Management

Policy discussion document

February 2020

A partnership with BROWN&CO

Interventions targeting water quantity

Intervention 1	Intervention 2	Intervention 3
Ground water recharging through creating or managing long term water sinks. Woodlands Wetlands	Slowing water flows and increasing soil moisture content through operations and techniques applicable within and around annual farming rotations Green covers Increasing Soil organic matter Cultivation techniques	Effective water management to mitigate flooding and enable water driven economic growth (focus on the value of water). Capturing peak flows Water storage Water sharing Usage efficiencies (eg irrigation)
Analyse financial benefit at farm (and economic at regional) level and associated incentives (financial and non financial) required for uptake.		
Capture and account for Natural Capital benefits		

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Our strategy.....

Understanding where abstraction is having a detrimental impact on the environment, and develop options which restore and enhance it whilst ensuring sustainable economic development, for example around agriculture and food production.

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Environment Agency

NATURAL ENGLAND

theguardian

Messing about with the river: water firms accused of draining the Cam dry

The Sunday Times April 7, 2019

Villagers and farms hit in UK's first water war

The Environment Agency has told a Norfolk Broads community to stop using local water sources in a bid to protect wildlife

Eastern Daily Press

'This will reduce our income by £80,000 a year' - Broadland farmers' concerns over water licence threat

March 29, 2019

(Eastern Daily Press - Agriculture)

Farmers say the "combative" review of water abstraction in the Broads is failing to assess both economic and ecological needs – with one claiming the loss of his licences would cost his business £80,000 a year.

'The Broads are being destroyed before our eyes', says Catfield Fen campaigner

March 29, 2019

(Eastern Daily Press - Agriculture)

The landowner who won a landmark legal battle to protect Catfield Fen from agricultural abstraction says the potential loss of more water licences in the Broads should not be a surprise to farmers.

Our strategy.....

Actively explore other potential sources of water for our region, for example desalination and water re-use

Testing theories and approaches at various scales through pilot projects across our region

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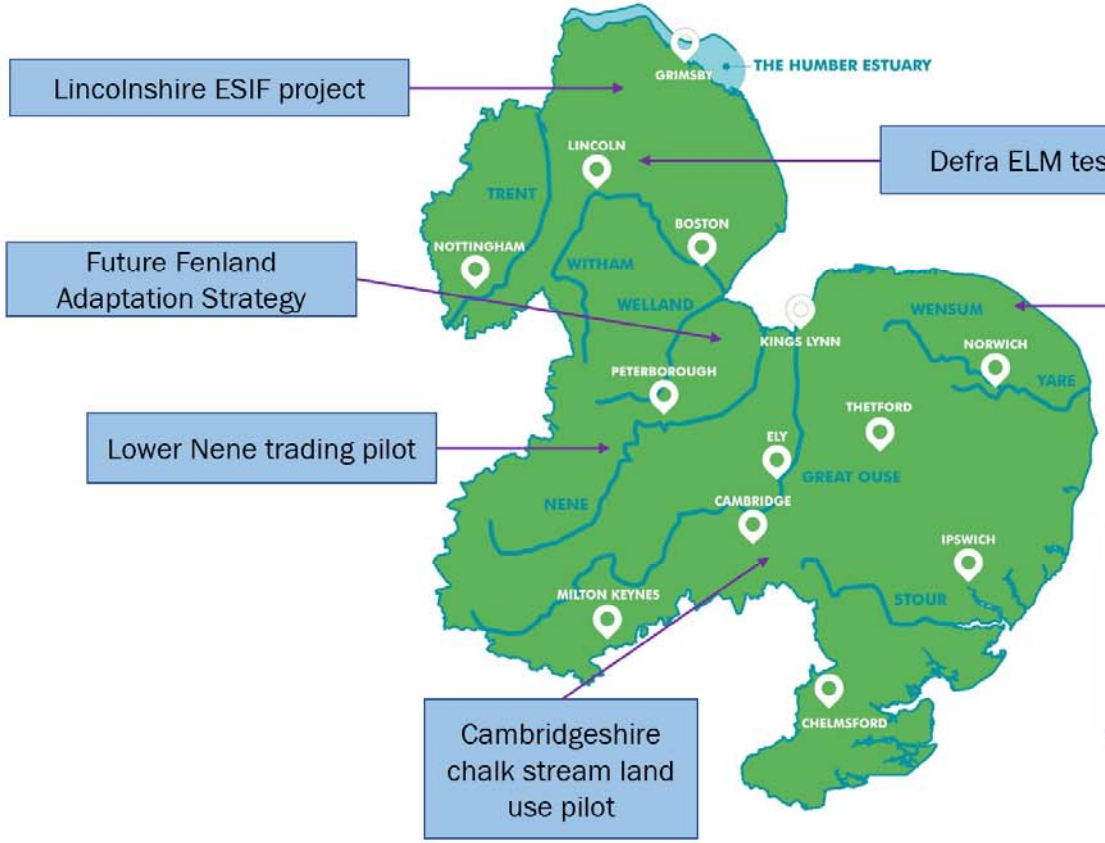

Region-wide

- Systematic Conservation Planning
- Priority Catchments (Inter Reg)
- Energy/water opportunities (Hydrogen)
- Multi-sector water efficiency exemplars
- Community scale water management

The Fenland Adaptation Strategy

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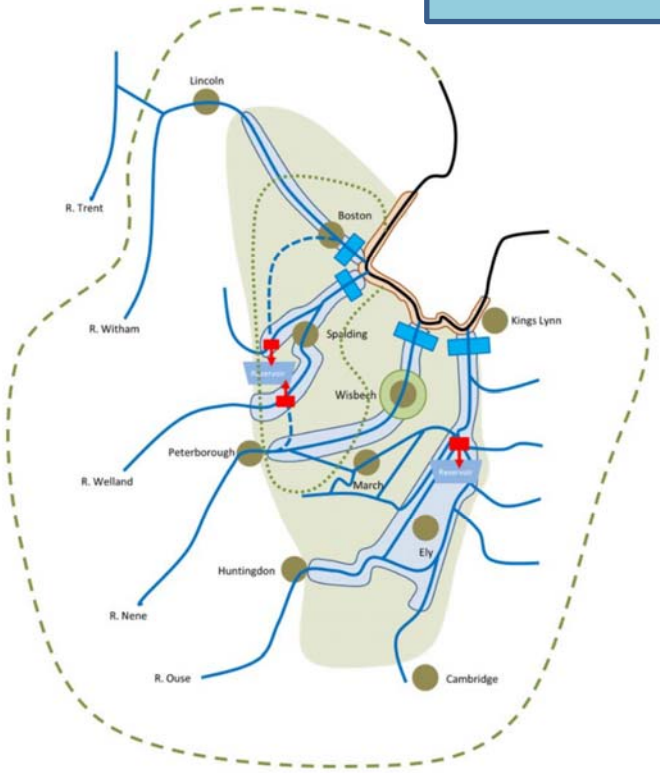
Lincolnshire ESIF project

Defra ELM test & trial (Lincolnshire)



- New multi-sector reservoirs providing additional water supply resilience for water companies, farmers and the food industry.
- Downstream flood barriers or barrages to protect growth areas in the Fens, enabling key local infrastructure projects such as such as a rail connection from Wishbech to Cambridge and the dualling of the A47 to move forward.
- Open water channels to provide water storage, biodiversity, navigation and tourism, and further flood risk management benefits.
- The opportunity to collaborate to manage land and water across the Fens in a new and integrated way, seeking to secure the future of the peat landscape given its crucial role in carbon sequestration.

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CAMBRIDGESHIRE & PETERBOROUGH COMBINED AUTHORITY

Environment Agency

Fenland CAMBRIDGESHIRE
Fenland District Council

Lincolnshire COUNTY COUNCIL
Working for a better future

Cambridgeshire County Council

ada Representing Drainage Water Level & Flood Risk Management Authorities

The Wildlife Trusts
Bedfordshire
Cambridgeshire
Northamptonshire

CLA

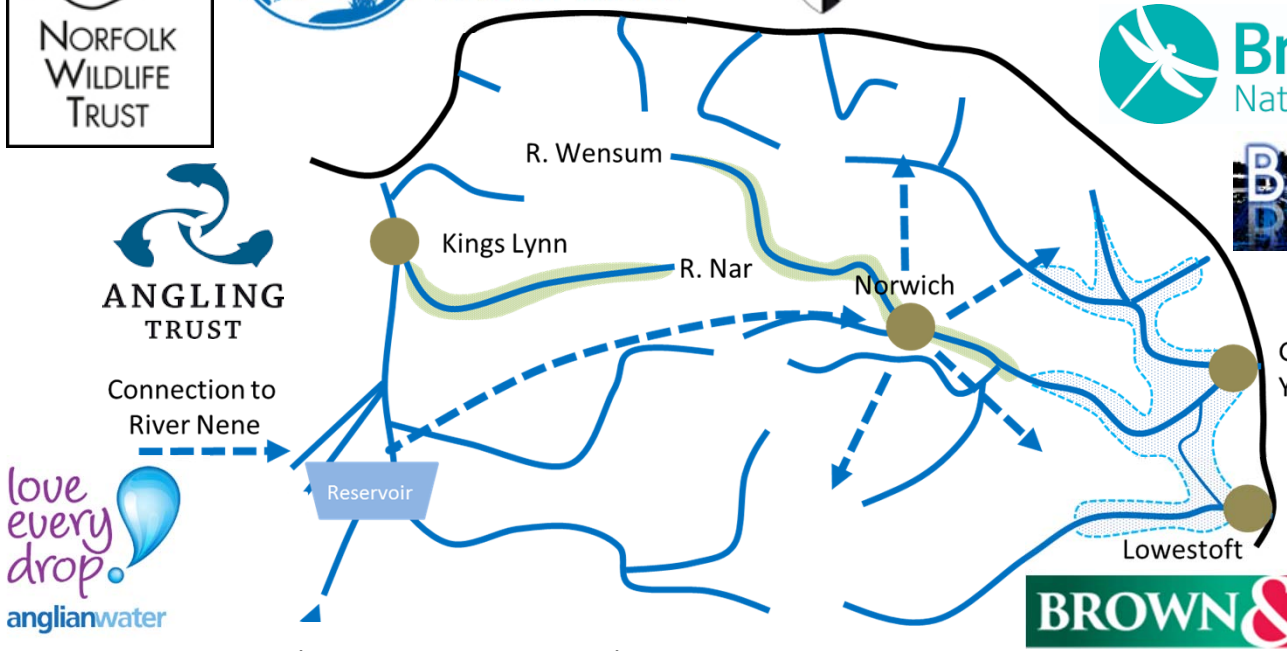
FENS BIOSPHERE

INLAND WATERWAYS ASSOCIATION

Water Works
PEAT PEOPLE SCIENCE

NFU

A Norfolk Water Management Plan



Connection to the River Great Ouse, with increased resilience from a connection to Water Resources West via the Bedford Milton Keynes Waterway

Water Funds: a tested approach for investing in watershed services where collective action is needed

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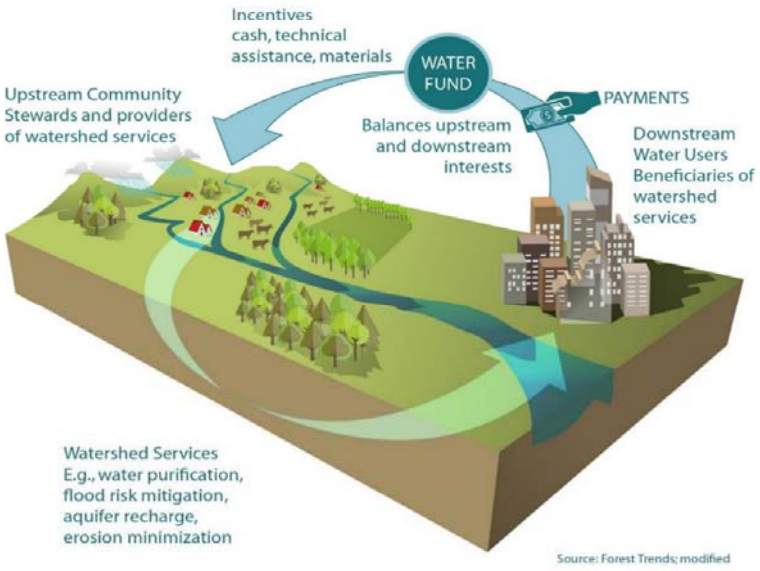
The Nature Conservancy



All water funds share some characteristics:

(1) Science-Based Plan

(2) Multi-stakeholder Governance

(3) Long-term Financing

(4) Implementation Capacity

Priority Catchments – Water for Tomorrow

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Department for Environment Food & Rural Affairs

Interreg

EUROPEAN UNION

Policy paper

Water abstraction plan

Updated 11 February 2020


Villagers and farms hit in UK's first water war

The Environment Agency has told a Norfolk Broads community to stop using local water sources in a bid to protect wildlife


Eastern Daily Press

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ESSEX&SUFFOLK WATER living water

Water efficiency exemplars within our region

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waterwise

South Cambridgeshire Local Plan

Adopted September 2018

Bedford Borough Local Plan 2030
Adopted version (this document contains the final text which will be typeset in due course)

January 2020

Local Plan 2030
Planning for the future

What does an exemplary community look like?

waterwise

CITIZEN SCIENCE.ORG

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RCCE RURAL COMMUNITY COUNCIL OF ESSEX

love every drop anglianwater | THE SMARTER DROP

Cambridgeshire ACRE Working to strengthen local communities

CAN Community Action Norfolk

BRCC

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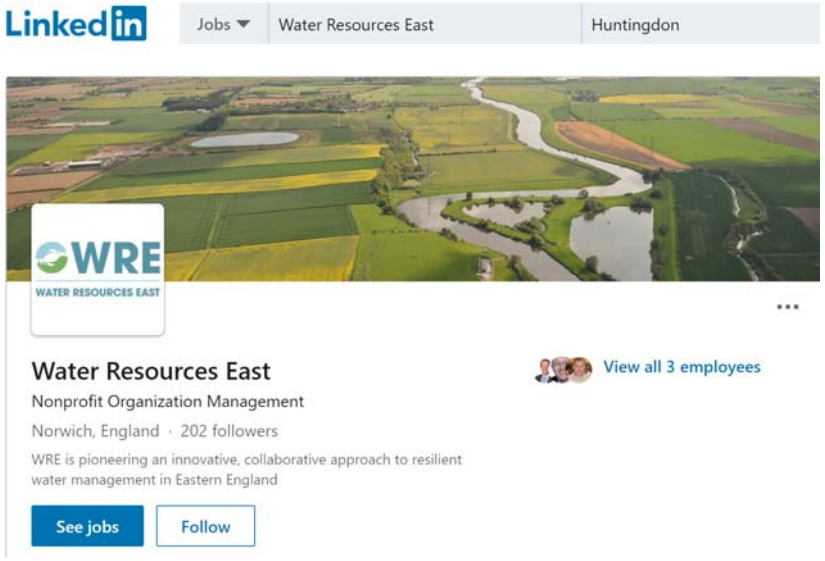

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