WRMP24 Technical Document

Area 4 - Norfolk Water Resource Zone summaries

September 2024

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WATER COMPANY OF THE YEAR

1. Introduction

About our company

Anglian Water is the largest water and wastewater company in England and Wales geographically, cover 20% of the land area. We operate in the East of England, the driest region in the UK, receiving two-thirds of the national average rainfall each year; that's approximately 600mm. Our region has over 3,300km of rivers and is home to the UK's only wetland national park, the Norfolk Broads. Between 2011 and 2021, our region experienced the highest population increase in England. De this, we are still putting less water into our network than we did in 1989.

Planning for the long term

Our company Purpose is "to bring environmental and social prosperity to the region we serve through commitment to Love Every Drop".

This purpose is at the heart of our business, having been enshrined in our Articles of Association in 2019 Central to delivering this purpose is planning for the long term; one of the strategic planning framework use to achieve this is the Water Resources Management Plan (WRMP), which details how we will ensure resilient water supplies to our customers over the next 25 years. A WRMP looks for low regret investme for our region, giving flexibility to adapt to future challenges and opportunities such as technological advances, climate change, demand variations, and abstraction reductions.

What is a Water Resources Management Plan

We produce a WRMP every five years. It is a statutory document that sets out how a sustainable and se supply of clean drinking water will be maintained for our customers. Crucially it takes a long-term view over 25 years, allowing us to plan an affordable, sustainable pathway that provides benefits.

long-term view over 25 years, allowing us to plan an affordable, sustainable pathway that provides bene our customers, society and the environment.

Our previous WRMP, WRMP19, had an ambitious twin track strategy, combining an industry leading smatter roll out and leakage ambition with a strategic pipeline across our region, bringing water from are surplus to areas of deficit.

This WRMP focusses on the period 2025 to 2050, and is known as WRMP24. We have developed it by following the Water Resources Planning Guideline (WRPG), as well as other relevant guidance, in order meet statutory requirements.

Developing our WRMP

Our WRMP24 has been progressed following processes detailed in the WRPG. We start by determining the extent of the challenges we face between 2025 and 2050.

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ring	We achieve this by developing forecasts to establish the amount of water available to use (support forecast) and the amount of water needed (demand forecast) in our region.
0	When these forecasts are combined, a baseline supply-demand balance is created. This tells us whether we have a surplus of water or a deficit, establishing our water needs for the planning period. An appraisal for both demand management options and supply-side options is
espite	undertaken.
copite	We environmentally assess both demand management and supply-side options so we can understand their potential environmental impacts and what could be put in place to mitigate these.
h our	The next step is for the water savings associated with the chosen demand management option be added into our baseline supply-demand balance to determine if our region's water needs ar
9. ks we	met. If the demand management options savings do not solve the need, supply-side options ar added into the modelling process and solution development.
e e	
ents	Best value plan
	To ensure we develop the right solution for our region's water needs, we have focused on 'best value'. To us, best value is looking beyond cost and seeking to deliver a benefit to customers an society, as well as the environment, whilst listening and acting on the views of our customers a stakeholders.
ecure	
	Our WRMP24
efit to	Our best value plan, the WRMP24, has been produced following a public consultation on our d WRMP24. This consultation ran from December 2022 to March 2023.
art	
eas of	Strategic context of WRMP24
	Our WRMP24 aligns with our Purpose, as well as internal and external strategic plans and initiatives. We have worked collaboratively with internal and external stakeholders, regulators a
to	other water abstractors to achieve this.
	Guide to our WRMP24 submission
	Our final submission comprises a non-technical customer and stakeholder summary, our main
the	report and nine technical supporting documents and non-technical supporting documents.



WRMP24

Introduction

This report is concerned with the WRMP24 water resource zone summaries non-technical supporting document. The report summarises key supply and demand data for the 27 Water Resource Zones (WRZs) characterised in the WRMP24.

These WRZs have been grouped by region according to our problem characterisation analysis.

Resource Zone	Area
Suffolk Ixworth	Cambridgshire & West Suffolk
Suffolk Sudbury	Cambridgshire & West Suffolk
Suffolk Thetford	Cambridgshire & West Suffolk
Suffolk West & Cambs	Cambridgshire & West Suffolk
Essex Central	East Suffolk & Essex
Essex South	East Suffolk & Essex
Suffolk East	East Suffolk & Essex
Fenland	Fenland
Hartlepool	Hartlepool
Lincolnshire Bourne	Lincolnshire & Nottinghamshire
Lincolnshire Central	Lincolnshire & Nottinghamshire
Lincolnshire East	Lincolnshire & Nottinghamshire
Lincolnshire Retford and Gainsborough	Lincolnshire & Nottinghamshire
Norfolk Aylsham	Norfolk
Norfolk Bradenham	Norfolk
Norfolk East Dereham	Norfolk
Norfolk East Harling	Norfolk
Norfolk Happisburgh	Norfolk
Norfolk Harleston	Norfolk
Norfolk North Coast	Norfolk
Norfolk Norwich & the Broads	Norfolk
Norfolk Wymondham	Norfolk
Ruthamford Central	Ruthamford
Ruthamford North	Ruthamford
Ruthamford South	Ruthamford
Ruthamford West	Ruthamford

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Anglian Water WRMP24 water resource zones



2. Strategic Overview

Norfolk

Strategic risk and issues

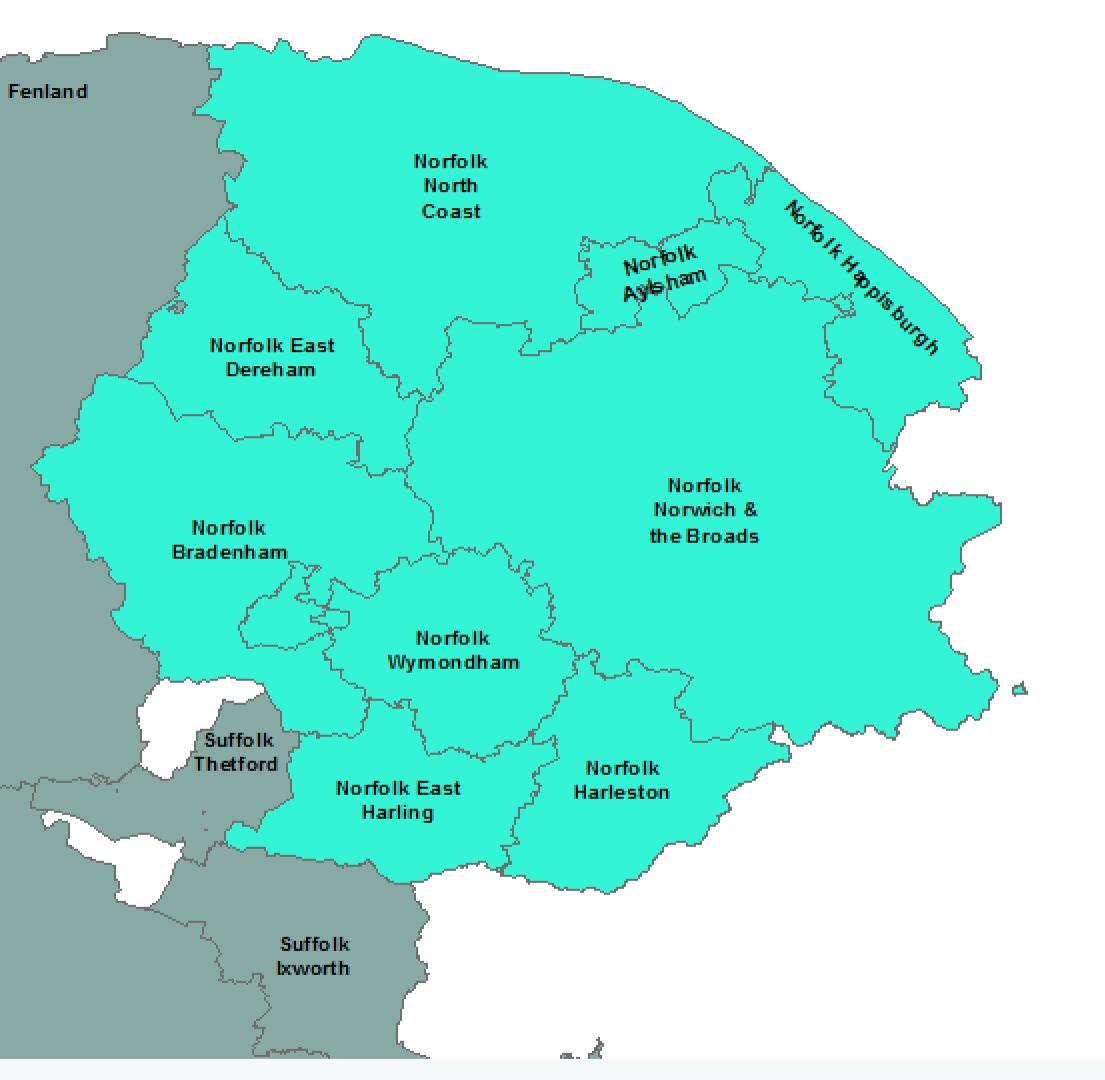
Norfolk experiences deficits in the baseline scenario because of growth. The area is vulnerable to extreme drought (particularly in Norwich and the Broads WRZ, because of Heigham surface water abstraction on the River Wensum). There is potential for sustainability reductions to increase baseline scenario deficits in Environmental Destination scenarios. Vulnerable catchments include:

- Broadland Rivers
- Can and Ely Ouse

Options in this area include connecting to the strategic grid, water reuse and desalination.

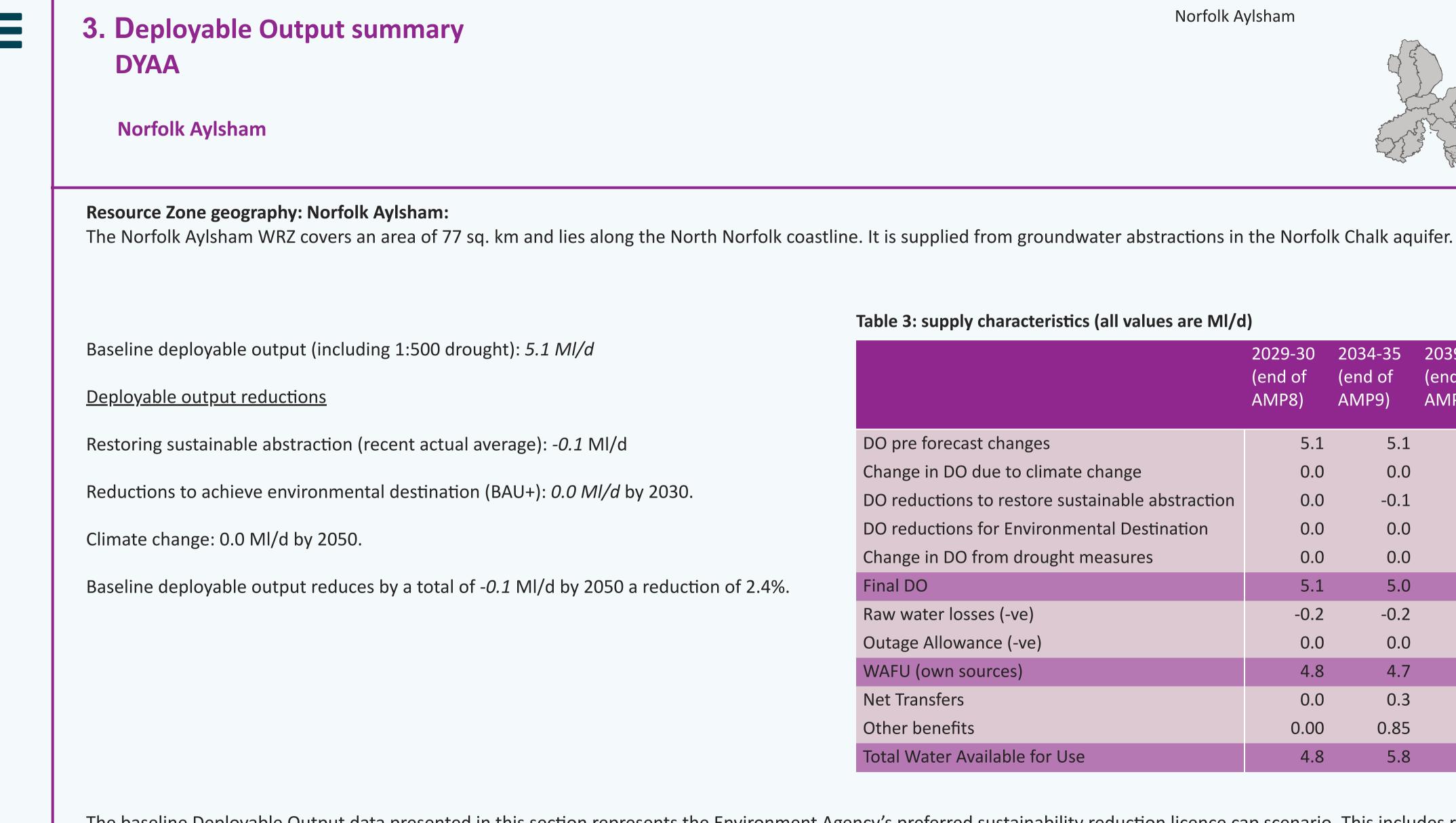
Choose area

Figure 1 Problem Characterisation Area



Cambridgshire & West Suffolk	Fenland	Lincolnshire & Nottinghamshire	Ruthamford
East Suffolk & Essex	Hartlepool	Norfolk	





The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

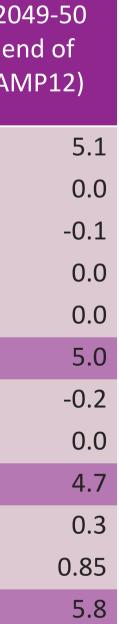


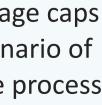
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	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (e Al
DO pre forecast changes	5.1	5.1	5.1	5.1	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	0.0	-0.1	-0.1	-0.1	
DO reductions for Environmental Destination	0.0	0.0	0.0	0.0	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	5.1	5.0	5.0	5.0	
Raw water losses (-ve)	-0.2	-0.2	-0.2	-0.2	
Outage Allowance (-ve)	0.0	0.0	0.0	0.0	
WAFU (own sources)	4.8	4.7	4.7	4.7	
Net Transfers	0.0	0.3	0.3	0.3	
Other benefits	0.00	0.85	0.85	0.85	
Total Water Available for Use	4.8	5.8	5.8	5.8	

Table 3: supply characteristics (all values are MI/d)







4. Population & Housing

Norfolk Aylsham

Over the WRMP period, population in **Norfolk** Aylsham is set to increase from 23013 in 2025 to **27881** in 2049-50 - this is an increase of **21.2 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	24
2034-35 (end of AMP9)	25
2039-40 (end of AMP10)	26
2044-45 (end of AMP11)	27
2049-50 (end of AMP12)	27

Over the WRMP period, property numbers in Norfolk Aylsham are set to increase from **10837** in 2025 to **14281** in 2049-50 - this is an increase of **31.8 %** over the 25 years.

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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)		
2029-30 (end of AMP8)	11.790		
2034-35 (end of AMP9)	12.830		
2039-40 (end of AMP10)	13.465		
2044-45 (end of AMP11)	13.914		
2049-50 (end of AMP12)	14.281		

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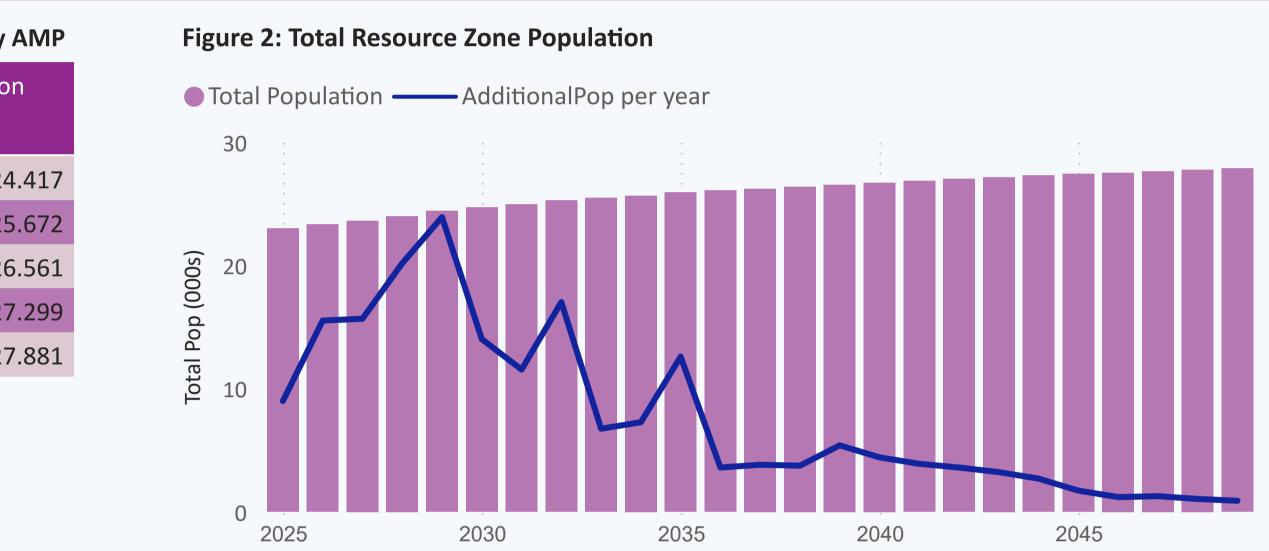
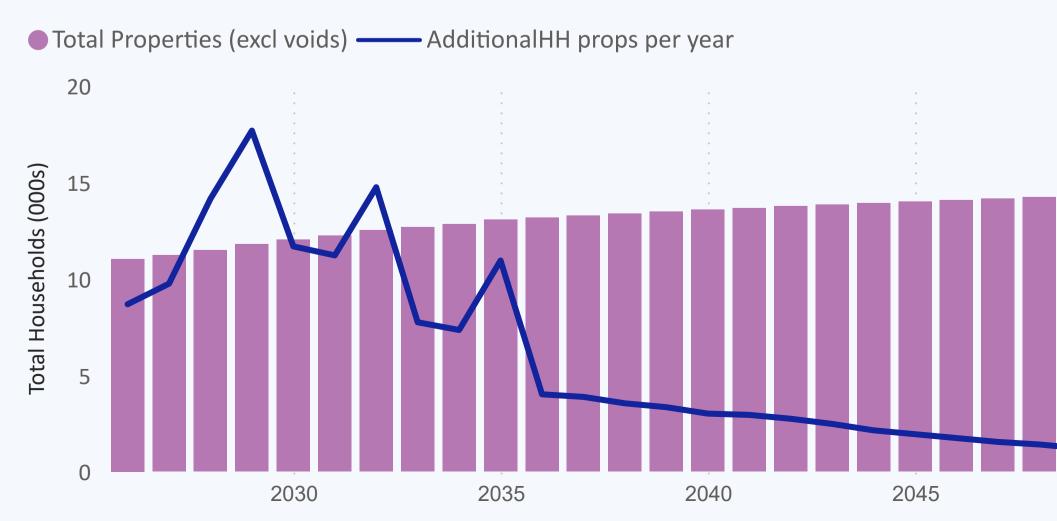
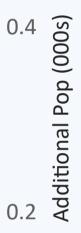


Figure 3: Total Resource Zone Properties (excl. voids)













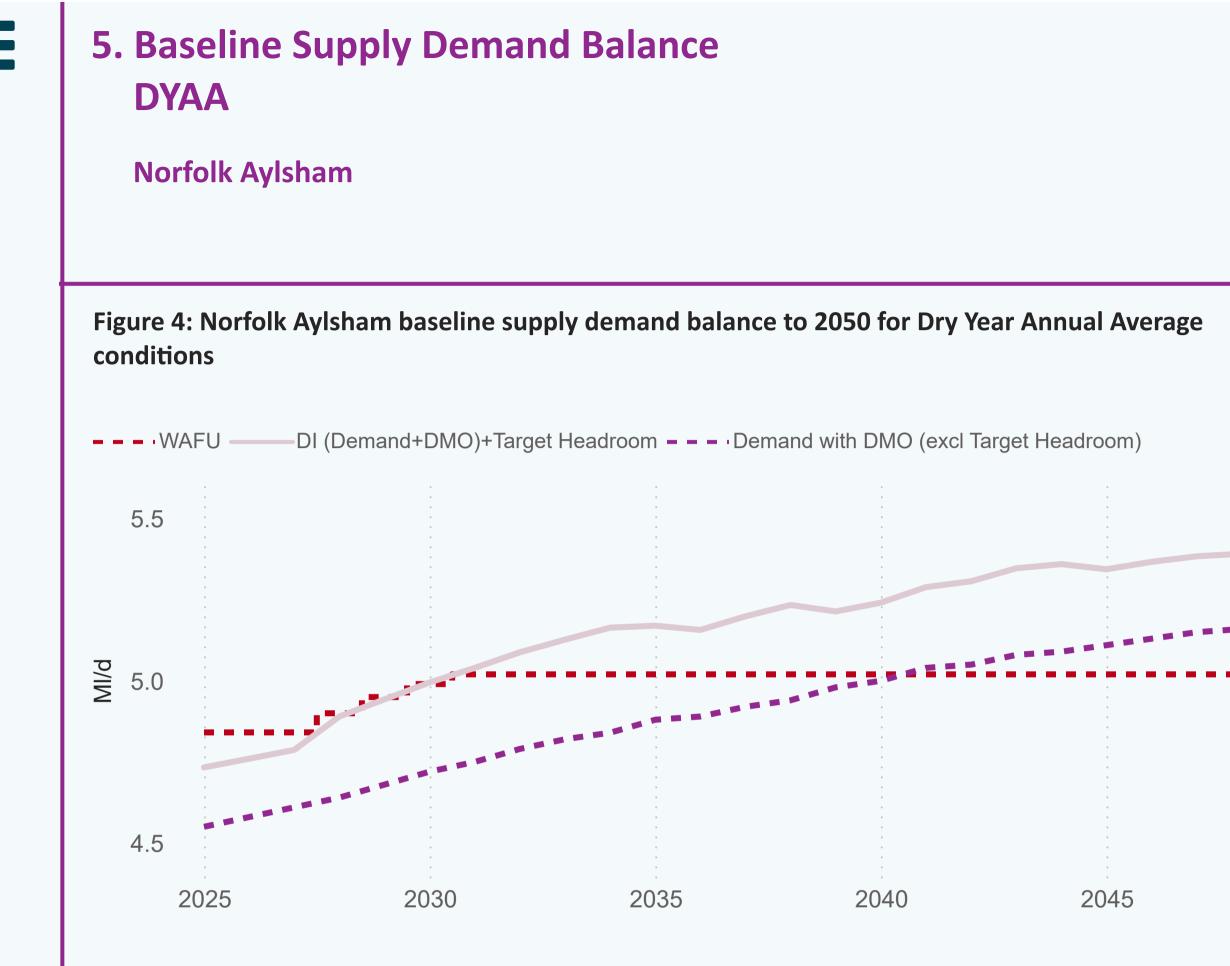


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	4.8	4.8	4.7	4.7	4.7	4.7
Net Transfers	0.0	0.1	0.3	0.3	0.3	0.3
Total Water Available For Use	4.8	5.0	5.0	5.0	5.0	5.0
Distribution Input	4.6	4.7	4.8	5.0	5.1	5.2
Target Headroom	0.2	0.3	0.3	0.2	0.3	0.2
Supply Demand Balance	0.1	0.0	-0.1	-0.2	-0.3	-0.4





Table 5b: Baseline demand forecast (without preferred demand management options)

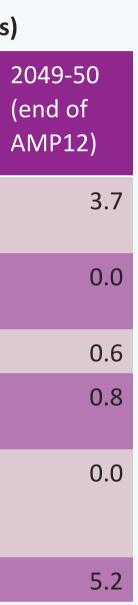
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	2.8	3.0	3.3	3.5	3.6
Water delivered unmeasured household	0.4	0.2	0.1	0.0	0.0
Total Leakage	0.6	0.6	0.6	0.6	0.6
Water delivered measured non-household	0.8	0.8	0.8	0.8	0.8
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	4.6	4.7	4.8	5.0	5.1

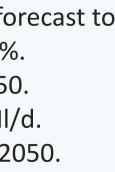
DYAA BL supply demand summary: Norfolk Aylsham

Baseline Supply Demand Balance: This zone is expected to go into deficit by 2030 (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 3.1 MI/d in 2025 to 3.7 MI/d in 2050, a percentage change of 18.8 %.
- Baseline Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 0.8 Ml/d to 0.8 Ml/d.
- Baseline Distribution Input: is expected to change from 4.6 MI/d to 5.2 MI/d by 2050.







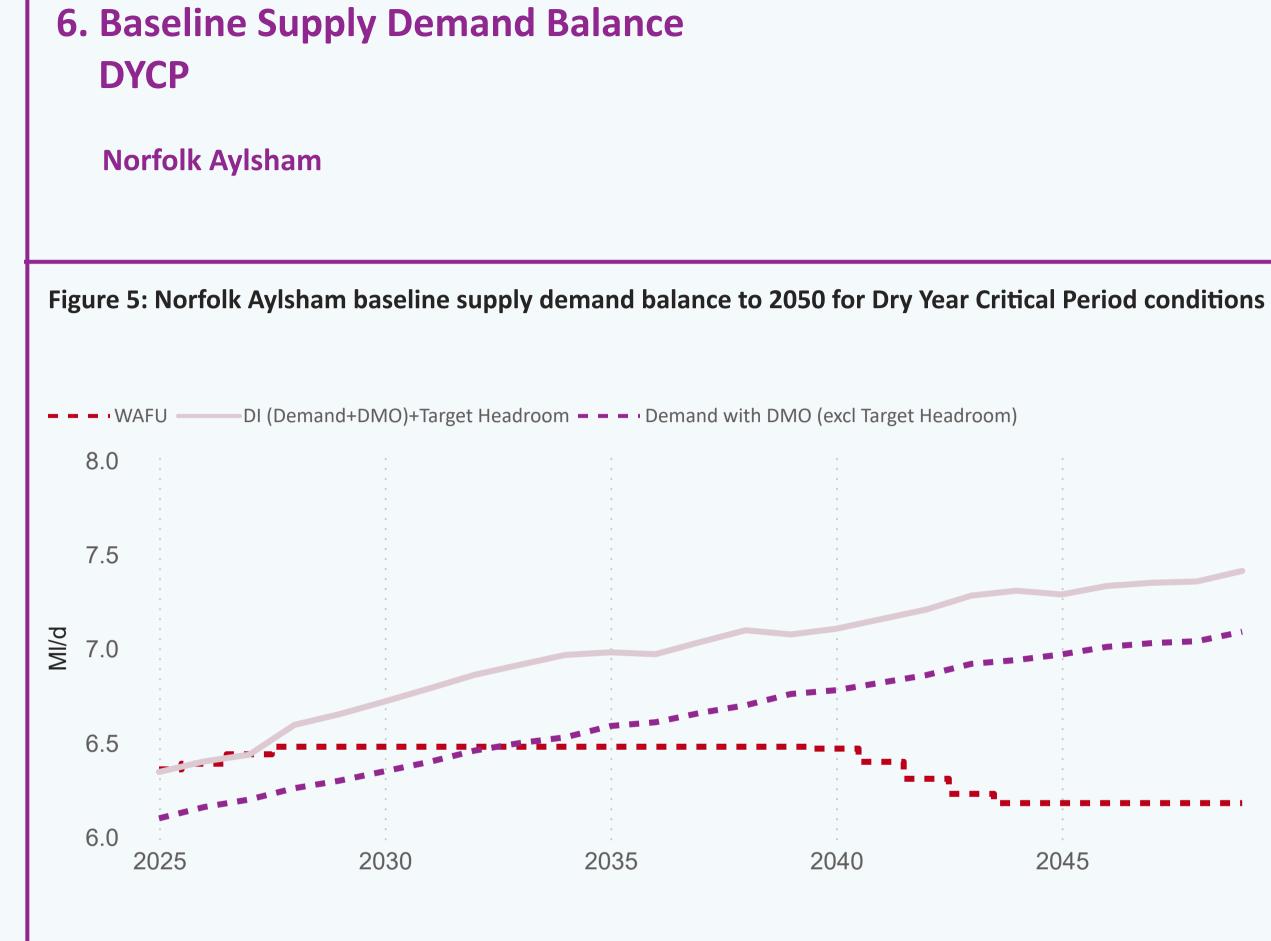


Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	6.2	6.2	6.2	6.2	6.2	6.2
Net Transfers	0.2	0.3	0.3	0.3	0.0	0.0
Total Water Available For Use	6.4	6.5	6.5	6.5	6.2	6.2
Distribution Input	6.1	6.3	6.5	6.8	6.9	7.1
Target Headroom	0.2	0.4	0.4	0.3	0.4	0.3
Supply Demand Balance	0.0	-0.2	-0.5	-0.6	-1.1	-1.2







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

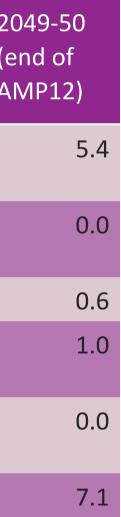
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
Water delivered measured household	4.0	4.3	4.7	5.1	5.3	
Water delivered unmeasured household	0.5	0.4	0.2	0.1	0.0	
Total Leakage	0.6	0.6	0.6	0.6	0.6	
Water delivered measured non-household	1.0	1.0	1.0	1.0	1.0	
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	6.1	6.3	6.5	6.8	6.9	

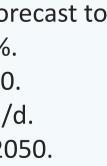
DYCP BL supply demand summary: Norfolk Aylsham

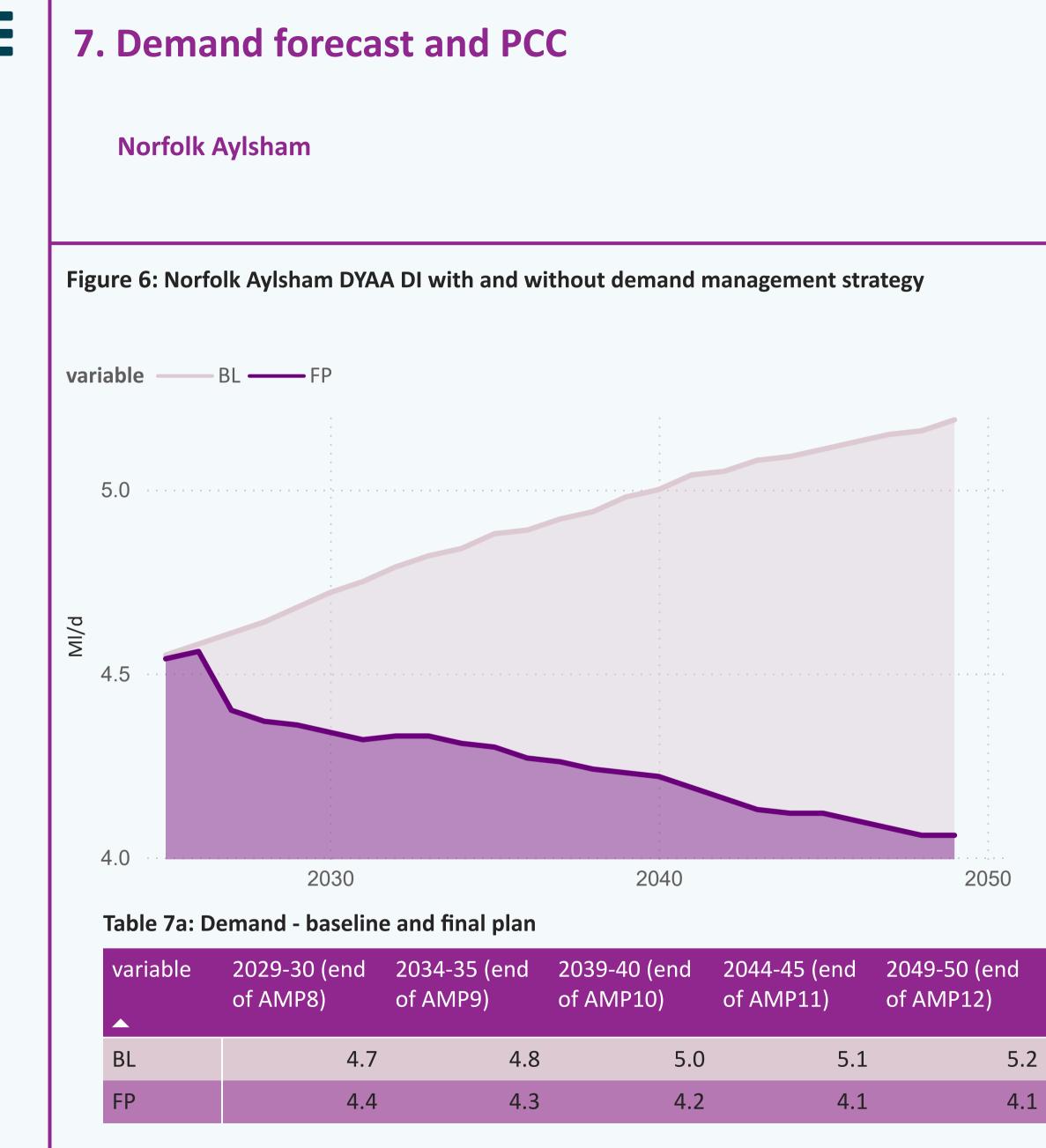
Baseline Supply Demand balance: This zone will go into deficit immediately

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 4.5 MI/d in 2025 to 5.4 MI/d in 2050, a percentage change of 20.9 %.
- Baseline Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.0 Ml/d to 1.0 Ml/d.
- Baseline Distribution Input: is expected to change from 6.1 Ml/d to 7.1 Ml/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).







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Demand Norfolk Aylsham (see Table 7a)

Baseline demand is expected to increase from 4.6 (MI/d) in 2025 to 5.2 (MI/d) in 2050. With demand management options in place, demand is expected to be 4.1 (MI/d).

PCC Norfolk Aylsham (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 122.6 (l/h/d) measured and 215.3 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 128.6 (I/h/d) in 2025/26. This is forecast to fall to 100.4 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

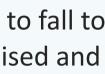
Table 7b: DMO strategy Final Plan

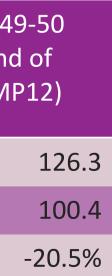
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	126.1	125.4	126.1	126.0	
FP demand forecast(DYAA)	116.7	111.4	106.5	102.2	
% change BL to FP	-7.5%	-11.2%	-15.5%	-18.9%	











8. Demand management options

Norfolk Aylsham

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

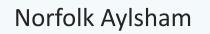
• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

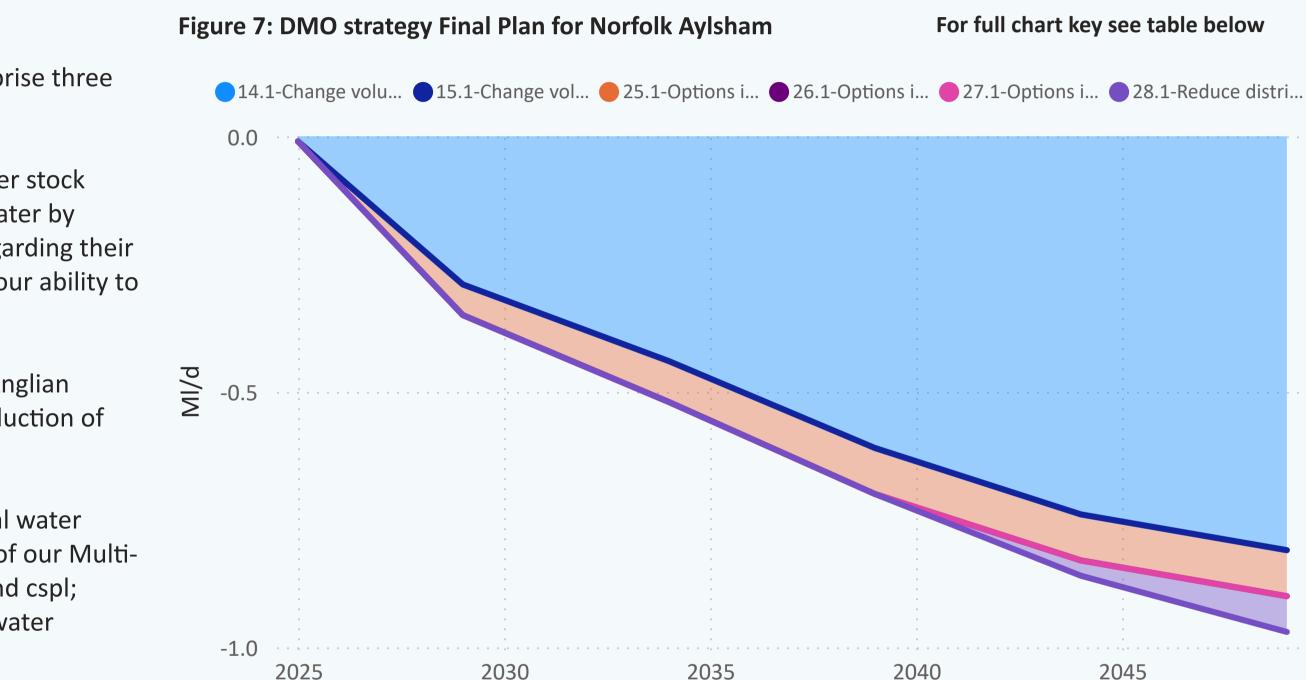
2029-30 (end of AMP) 14.1-Change volume delivered to measured households(-ve) 15.1-Change volume delivered to unmeasured households(-ve) 25.1-Options impacting on measured Household - USPL (-ve) 26.1-Options impacting on unmeasured Household - USPL (-ve) 27.1-Options impacting on Void properties - USPL (-ve) 28.1-Reduce distribution losses (-ve)

Table 8: DMO strategy Final Plan for Norfolk Aylsham



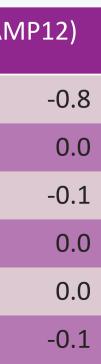


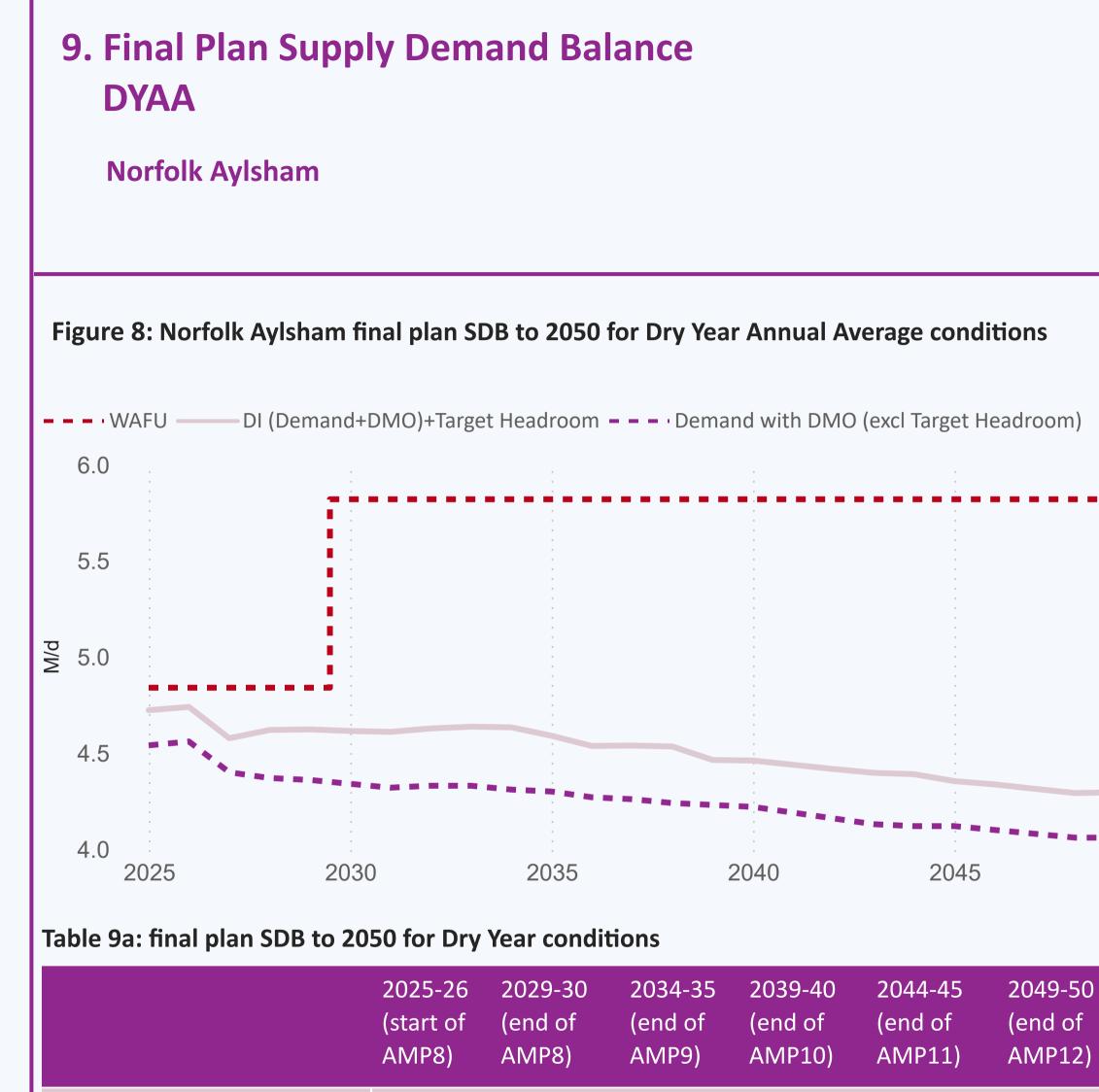




P8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
-0.3	-0.4	-0.6	-0.7	
0.0	0.0	0.0	0.0	
-0.1	-0.1	-0.1	-0.1	
0.0	0.0	0.0	0.0	
0.0	0.0	0.0	0.0	
0.0	0.0	0.0	0.0	







	AIVIP8)	AIVIP8)	AIVIP9)	AIVIP10)	AIVIP11)	AIVIP12)
Water Available For Use	4.8	4.8	5.6	5.6	5.6	5.6
Net Transfers	0.0	0.0	0.3	0.3	0.3	0.3
Total Water Available For Use	4.8	4.8	5.8	5.8	5.8	5.8
Distribution Input	4.5	4.4	4.3	4.2	4.1	4.2
Target Headroom	0.2	0.3	0.3	0.2	0.3	0.2
Supply Demand Balance	0.1	0.2	1.2	1.4	1.4	1.5



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 Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management)
 options)

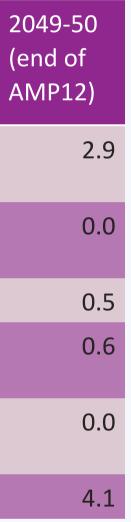
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	((A
Water delivered measured household	2.8	2.7	2.8	2.9	2.9	
Water delivered unmeasured household	0.4	0.2	0.1	0.0	0.0	
Total Leakage	0.6	0.5	0.5	0.5	0.5	
Water delivered measured non- household	0.8	0.8	0.7	0.7	0.6	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	4.5	4.4	4.3	4.2	4.1	

DYAA FP supply demand summary: Norfolk Aylsham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 3.1 MI/d in 2025 to 2.9 MI/d in 2050, a percentage change of -6.7 %.
- Final Plan Leakage is forecast to change from 0.6 Ml/d in 2025 to 0.5 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 0.8 Ml/d to 0.6 Ml/d.
- Final Plan Distribution Input is expected to change from 4.5 Ml/d to 4.1 Ml/d by 2050.





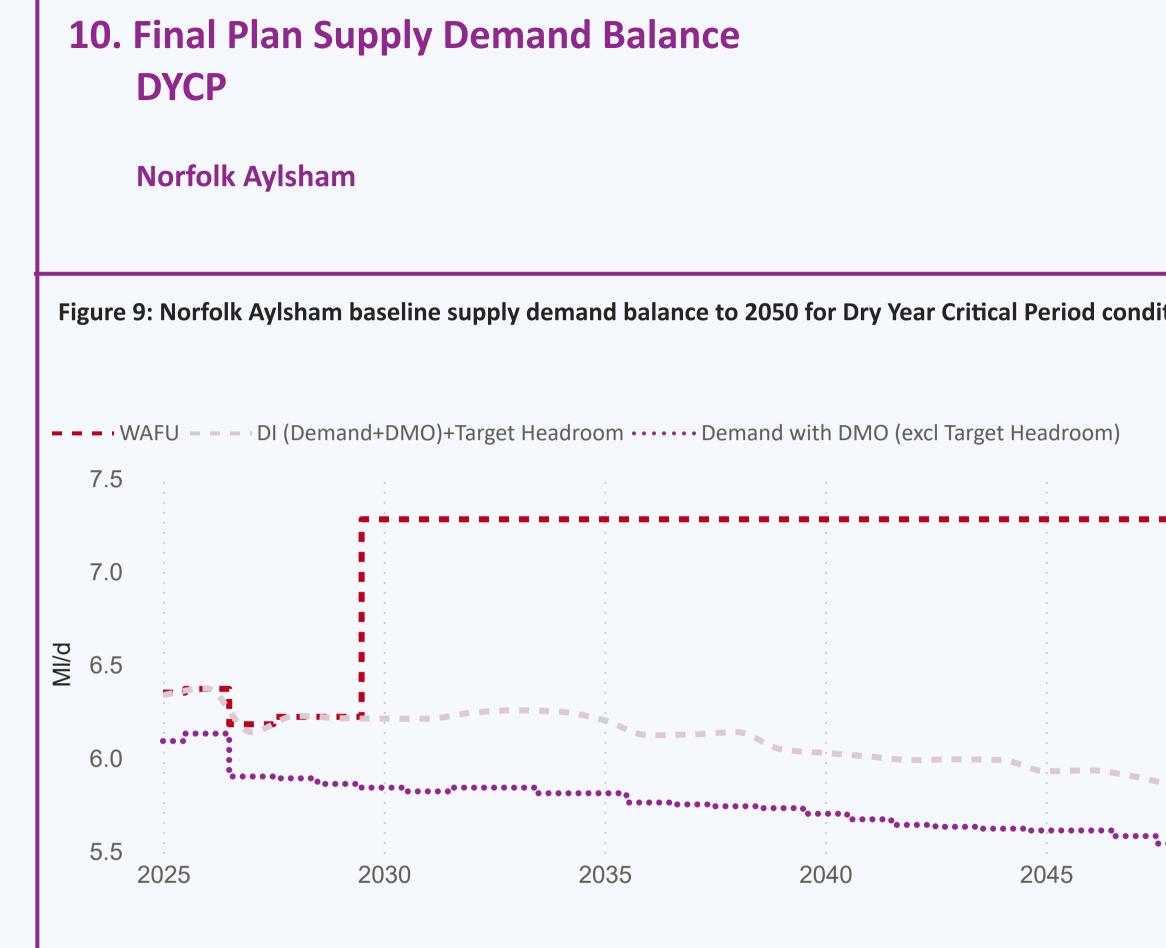


Table 10a: Final Plan supply demand balance 2025 - 2050 for DYCP conditions

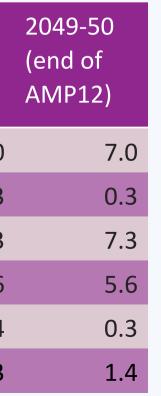
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water Available For Use	6.2	6.2	7.0	7.0	7.0
Net Transfers	0.2	0.0	0.3	0.3	0.3
Total Water Available For Use	6.4	6.2	7.3	7.3	7.3
Distribution Input	6.1	5.9	5.8	5.7	5.6
Target Headroom	0.2	0.4	0.4	0.3	0.4
Supply Demand Balance	0.0	0.0	1.0	1.2	1.3

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litions	Table 10b: Final Plan deman options)	d forecast f	or DYCP con	ditions (wit	th preferred	demand ma	anage
		2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049 (enc AMI
	Water delivered measured household	4.0	3.9	4.1	4.2	4.2	
	Water delivered unmeasured household	0.5	0.4	0.2	0.1	0.0	
	Total Leakage	0.6	0.5	0.5	0.5	0.5	
	Water delivered measured non-household	1.0	1.0	0.9	0.8	0.8	
* = = *	Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
	Distribution Input	6.1	5.9	5.8	5.7	5.6	

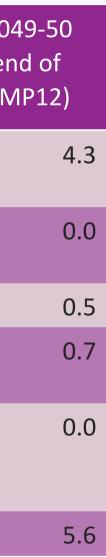


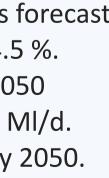
DYCP BL supply demand summary: Norfolk Aylsham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 4.5 Ml/d in 2025 to 4.3 Ml/d in 2050, a percentage change of -4.5 %.
- Final Plan Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.5 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 1.0 Ml/d to 0.7 Ml/d.
- Final Plan Distribution Input: is expected to change from 6.1 Ml/d to 5.6 Ml/d by 2050.

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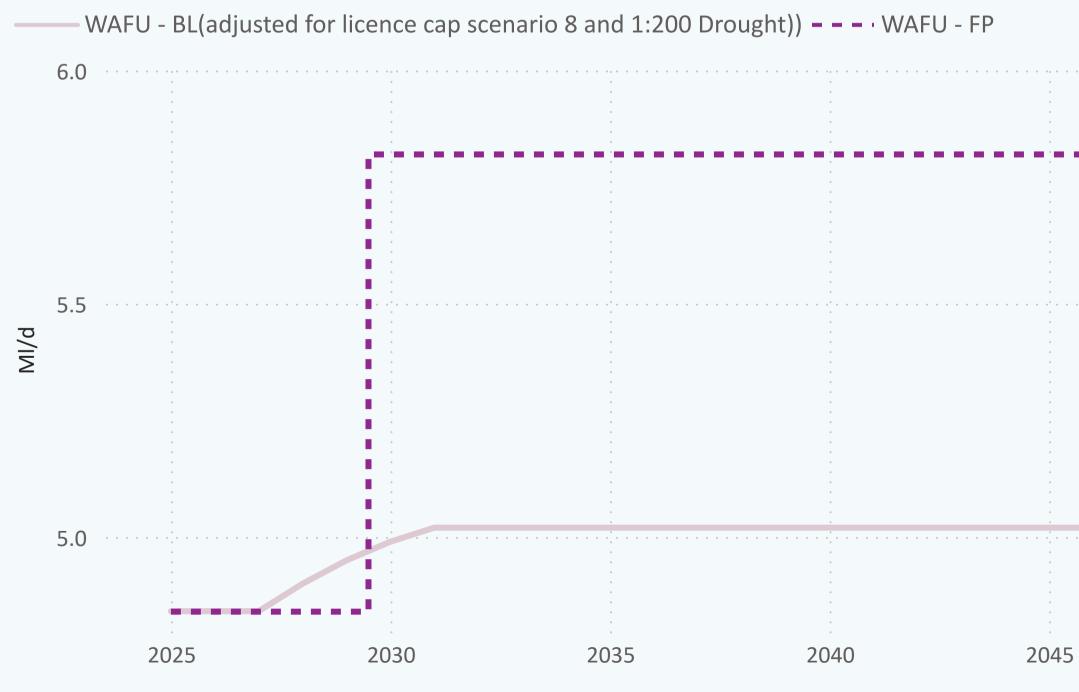
11. Supply Side Strategy

Norfolk Aylsham

Table 11a: Total Water Available for use Baseline and Final Plan

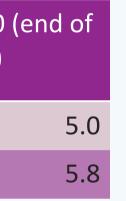
		2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
١	WAFU - BL	5.0	5.0	5.0	5.0	
١	WAFU - FP	4.8	5.8	5.8	5.8	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)





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Supply side strategy options.

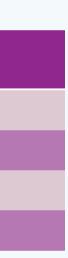
For details on the feasible options list for Norfolk Aylsham WRZ please refer to the Supply-Side Option Development technical supporting document.

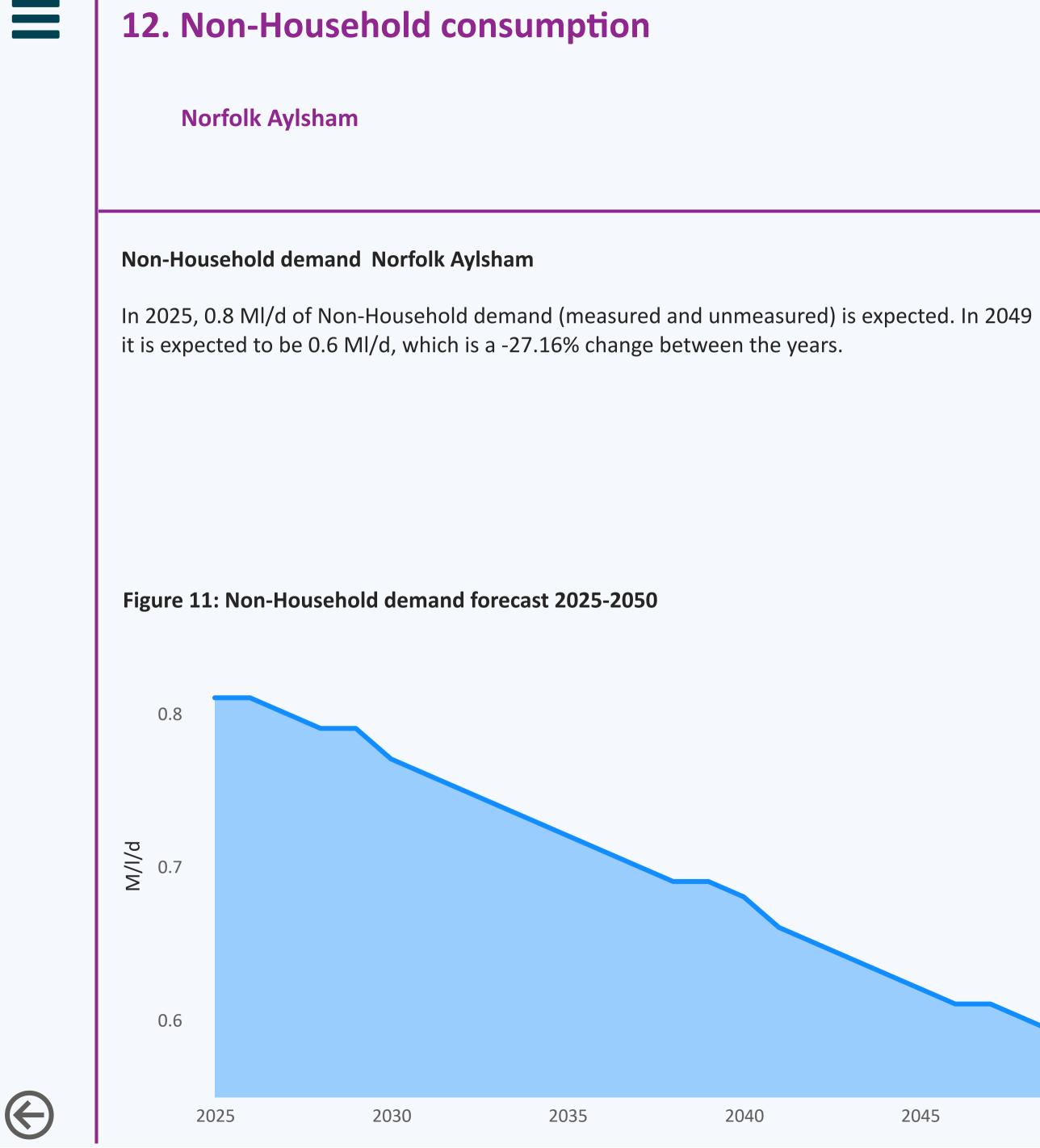
Table11b: Preferred supply side options Option ID First Option Name

EI07	Adjustment to existing potable water import
NAY1	Norwich and the Broads to Aylsham potable transfer (3 Ml/d)
NAY4	Norfolk Aylsham WTW backwash water recovery
NAY5	Norfolk Aylsham WTW backwash water recovery





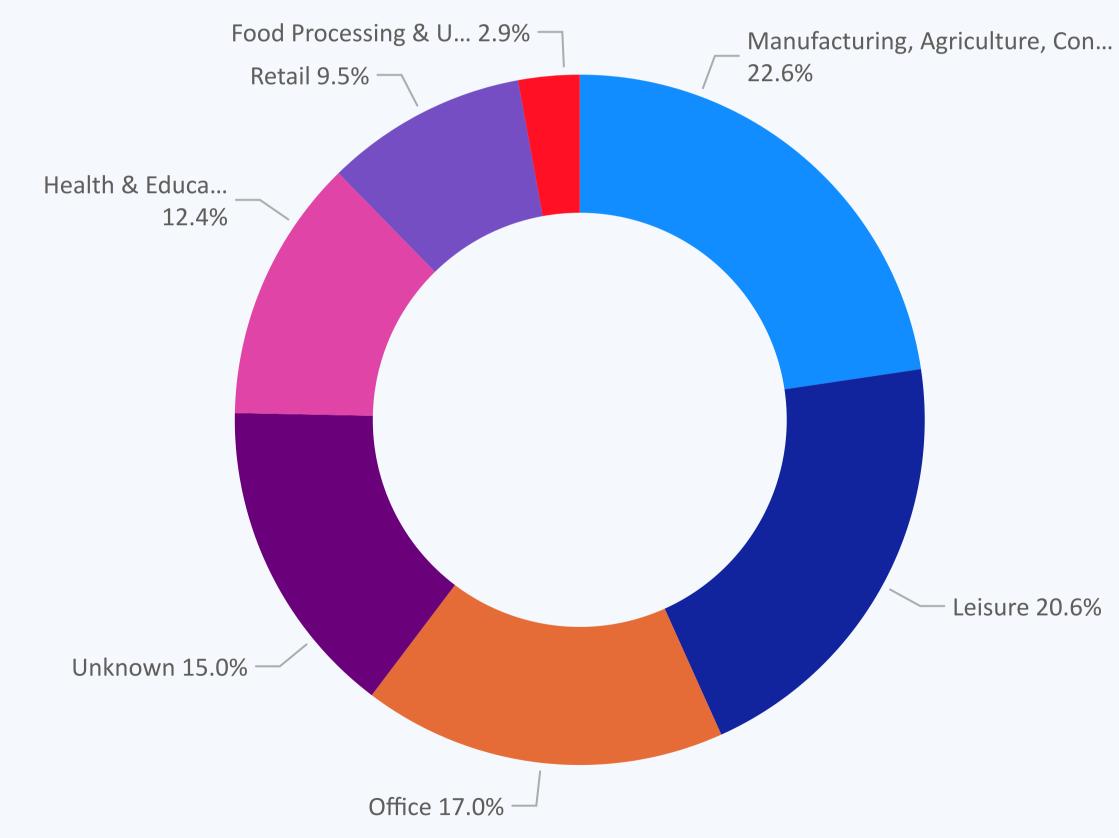


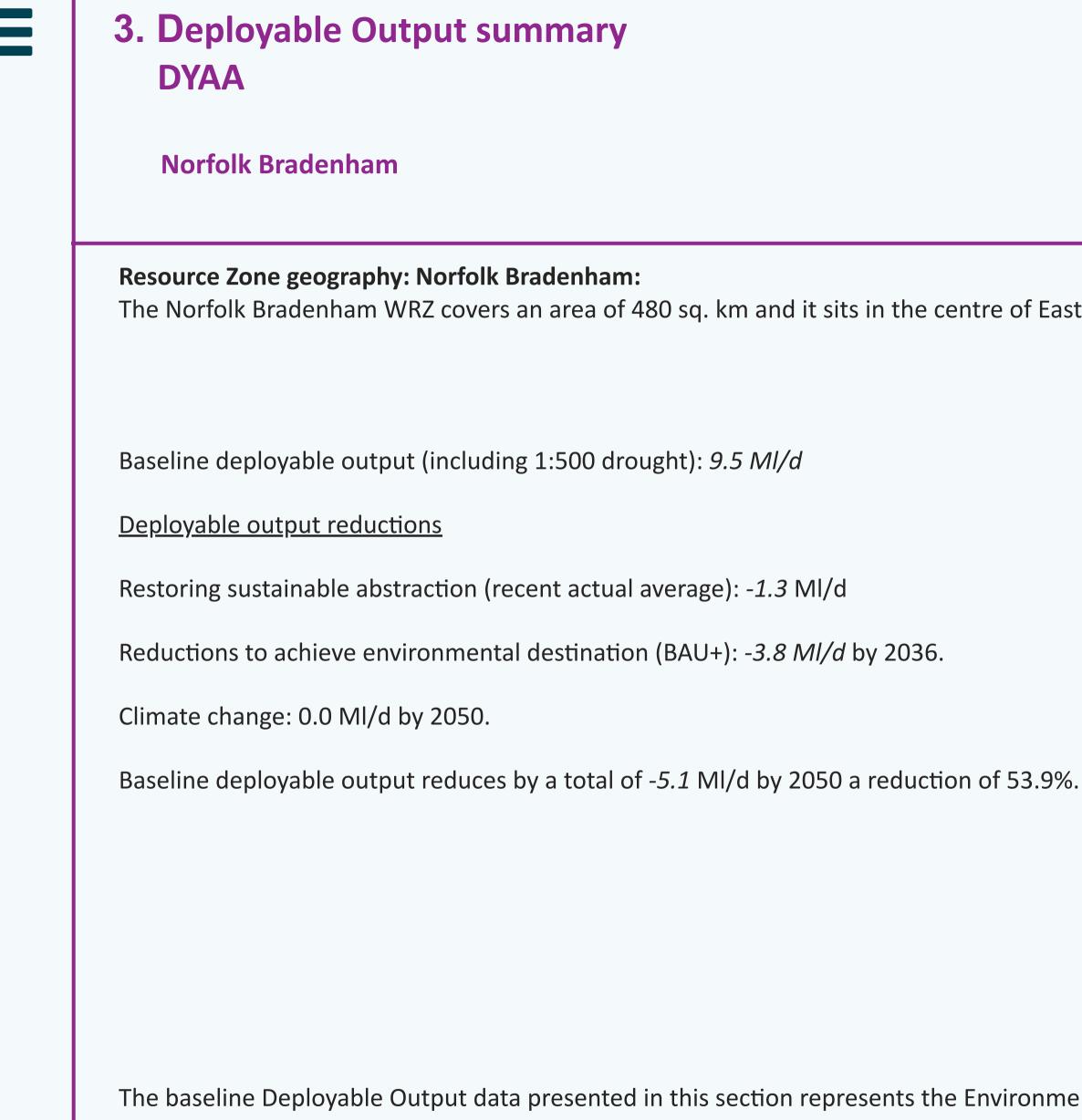












The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Norfolk Bradenham

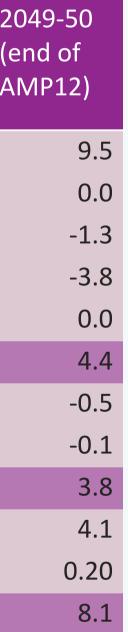


The Norfolk Bradenham WRZ covers an area of 480 sq. km and it sits in the centre of East Anglia. Water is supplied from groundwater abstractions from the Norfolk Chalk aquifer.

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
DO pre forecast changes	9.5	9.5	9.5	9.5	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-1.3	-1.3	-1.3	-1.3	
DO reductions for Environmental Destination	0.0	0.0	-3.8	-3.8	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	8.2	8.2	4.4	4.4	
Raw water losses (-ve)	-0.5	-0.5	-0.5	-0.5	
Outage Allowance (-ve)	-0.1	-0.1	-0.1	-0.1	
WAFU (own sources)	7.6	7.6	3.8	3.8	
Net Transfers	-0.2	1.0	4.5	4.4	
Other benefits	1.29	0.20	0.20	0.20	
Total Water Available for Use	8.8	8.8	8.5	8.4	

Table 3: supply characteristics (all values are MI/d)





4. Population & Housing

Norfolk Bradenham

Over the WRMP period, population in **Norfolk** Bradenham is set to increase from 43336 in 2025 to **49302** in 2049-50 - this is an increase of **13.8 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	44
2034-35 (end of AMP9)	45
2039-40 (end of AMP10)	46
2044-45 (end of AMP11)	47
2049-50 (end of AMP12)	49

Over the WRMP period, property numbers in Norfolk Bradenham are set to increase from **19129** in 2025 to **22948** in 2049-50 - this is an increase of 20.0 % over the 25 years.

 $\mathbf{ }$

Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)			
2029-30 (end of AMP8)	19.970			
2034-35 (end of AMP9)	20.784			
2039-40 (end of AMP10)	21.545			
2044-45 (end of AMP11)	22.268			
2049-50 (end of AMP12)	22.948			

Norfolk Bradenham

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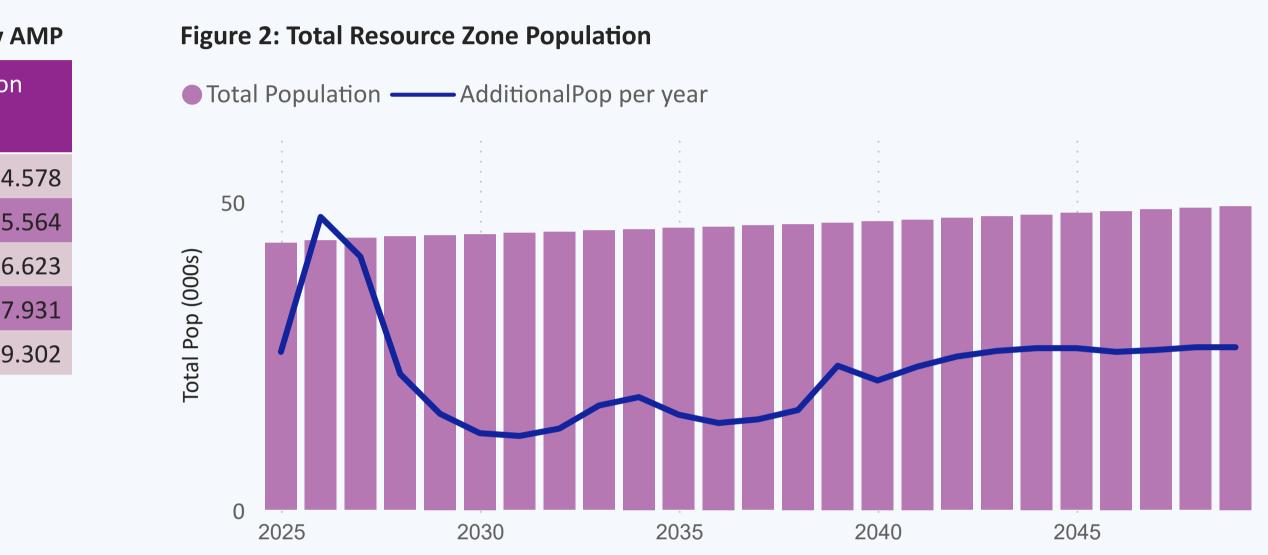
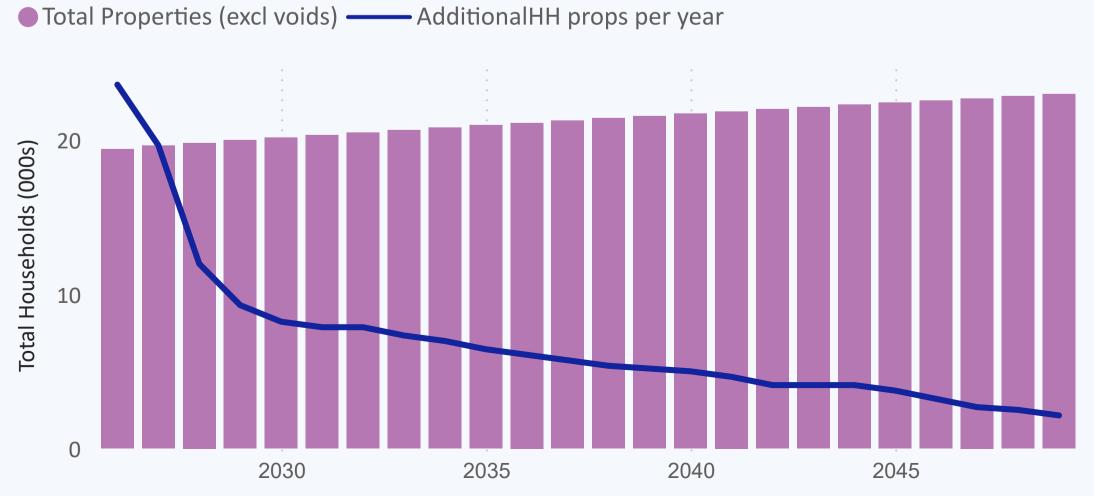
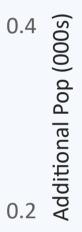


Figure 3: Total Resource Zone Properties (excl. voids)











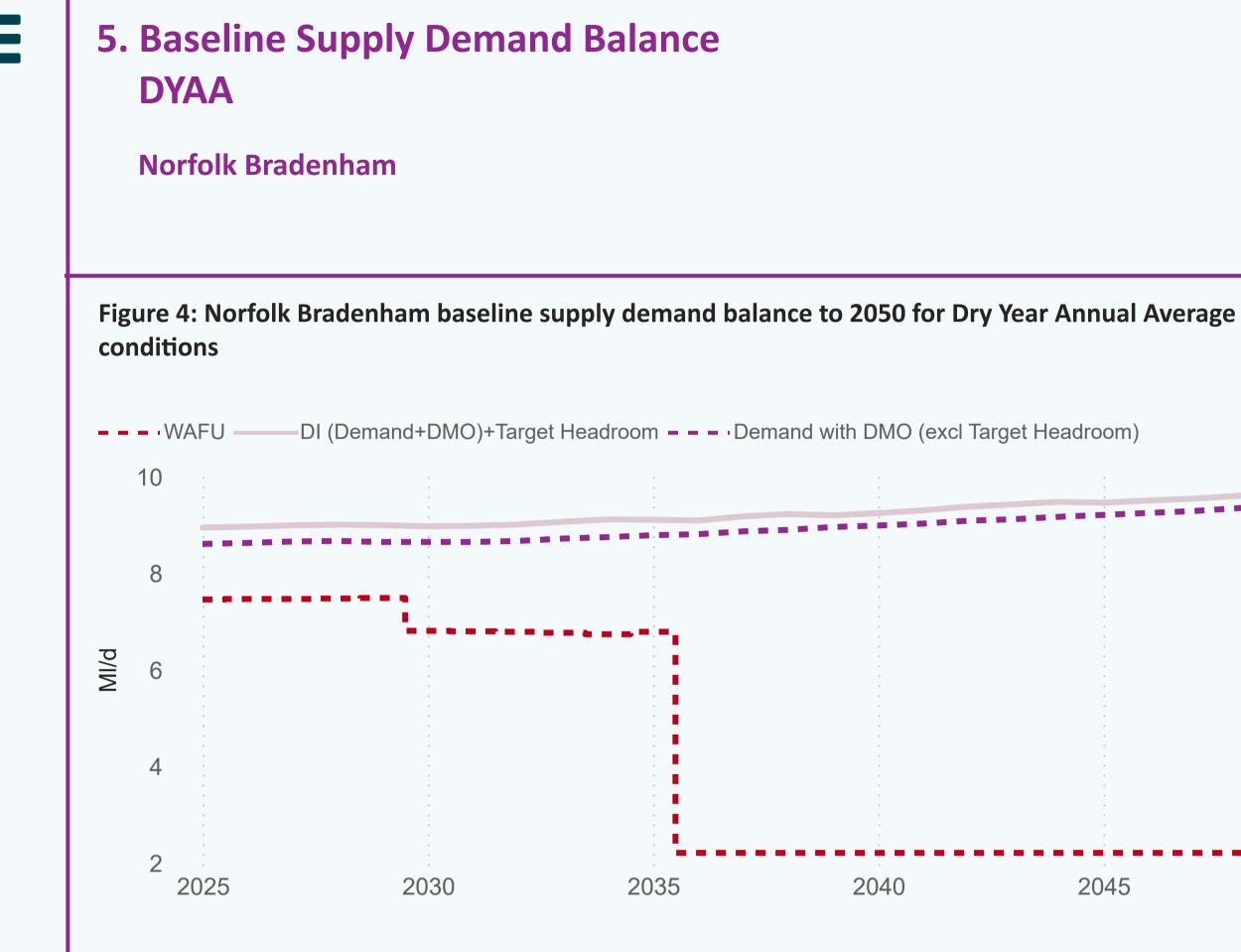


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	7.6	7.6	7.6	3.8	3.8	3.8
Net Transfers	-0.2	-0.2	-0.9	-1.6	-1.6	-1.6
Total Water Available For Use	7.5	7.5	6.7	2.2	2.2	2.2
Distribution Input	8.6	8.7	8.8	9.0	9.2	9.4
Target Headroom	0.3	0.3	0.4	0.2	0.3	0.3
Supply Demand Balance	-1.5	-1.5	-2.4	-7.0	-7.3	-7.4





Table 5b: Baseline demand forecast (without preferred demand management options)

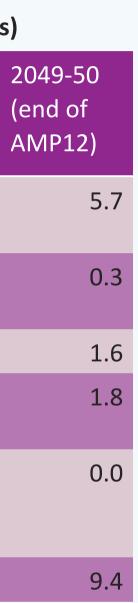
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	4.7	4.8	5.0	5.2	5.5
Water delivered unmeasured household	0.8	0.7	0.5	0.4	0.4
Total Leakage	1.7	1.6	1.6	1.6	1.7
Water delivered measured non-household	1.5	1.6	1.6	1.6	1.7
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	8.6	8.7	8.8	9.0	9.2

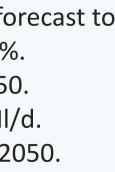
DYAA BL supply demand summary: Norfolk Bradenham

Baseline Supply Demand Balance: This zone is expected to go into deficit by 2025 (under the preferred baseline scenario - as described in section 3.3).

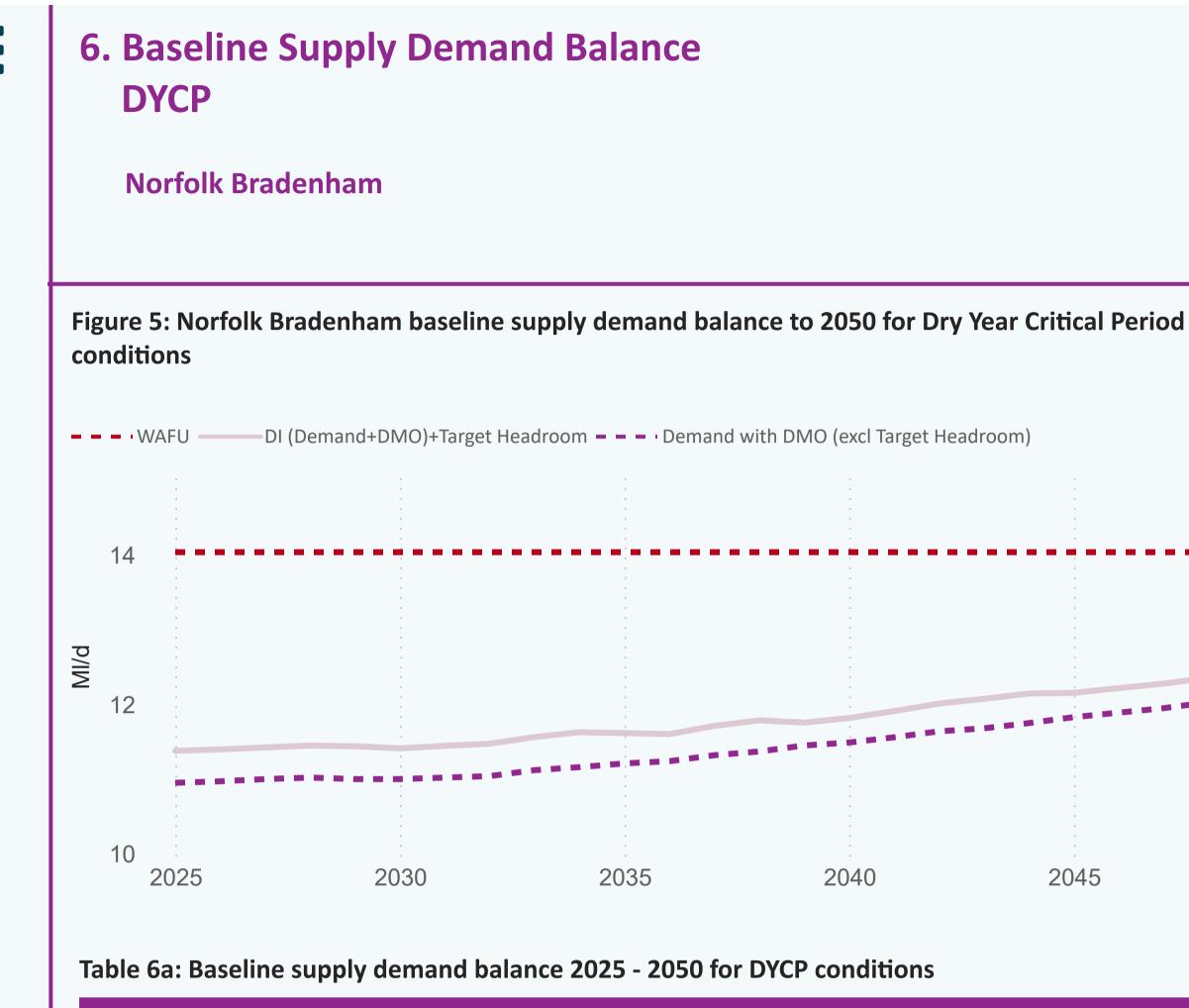
- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 5.4 MI/d in 2025 to 6.0 MI/d in 2050, a percentage change of 10.1 %.
- Baseline Leakage: is forecast to change from 1.7 Ml/d in 2025 to 1.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.5 Ml/d to 1.8 Ml/d.
- Baseline Distribution Input: is expected to change from 8.6 MI/d to 9.4 MI/d by 2050.











	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	14.0	14.0	14.0	14.0	14.0	14.0
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	14.0	14.0	14.0	14.0	14.0	14.0
Distribution Input	11.0	11.0	11.2	11.5	11.8	12.1
Target Headroom	0.4	0.4	0.5	0.3	0.4	0.3
Supply Demand Balance	2.7	2.6	2.4	2.3	1.9	1.6







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

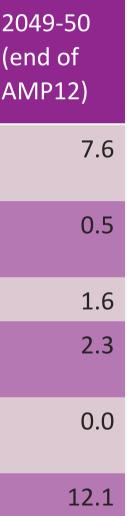
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	6.2	6.4	6.6	7.0	7.4
Water delivered unmeasured household	1.1	0.9	0.7	0.6	0.5
Total Leakage	1.7	1.6	1.6	1.6	1.7
Water delivered measured non-household	2.0	2.1	2.1	2.2	2.3
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0
Distribution Input	11.0	11.0	11.2	11.5	11.8

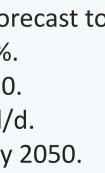
DYCP BL supply demand summary: Norfolk Bradenham

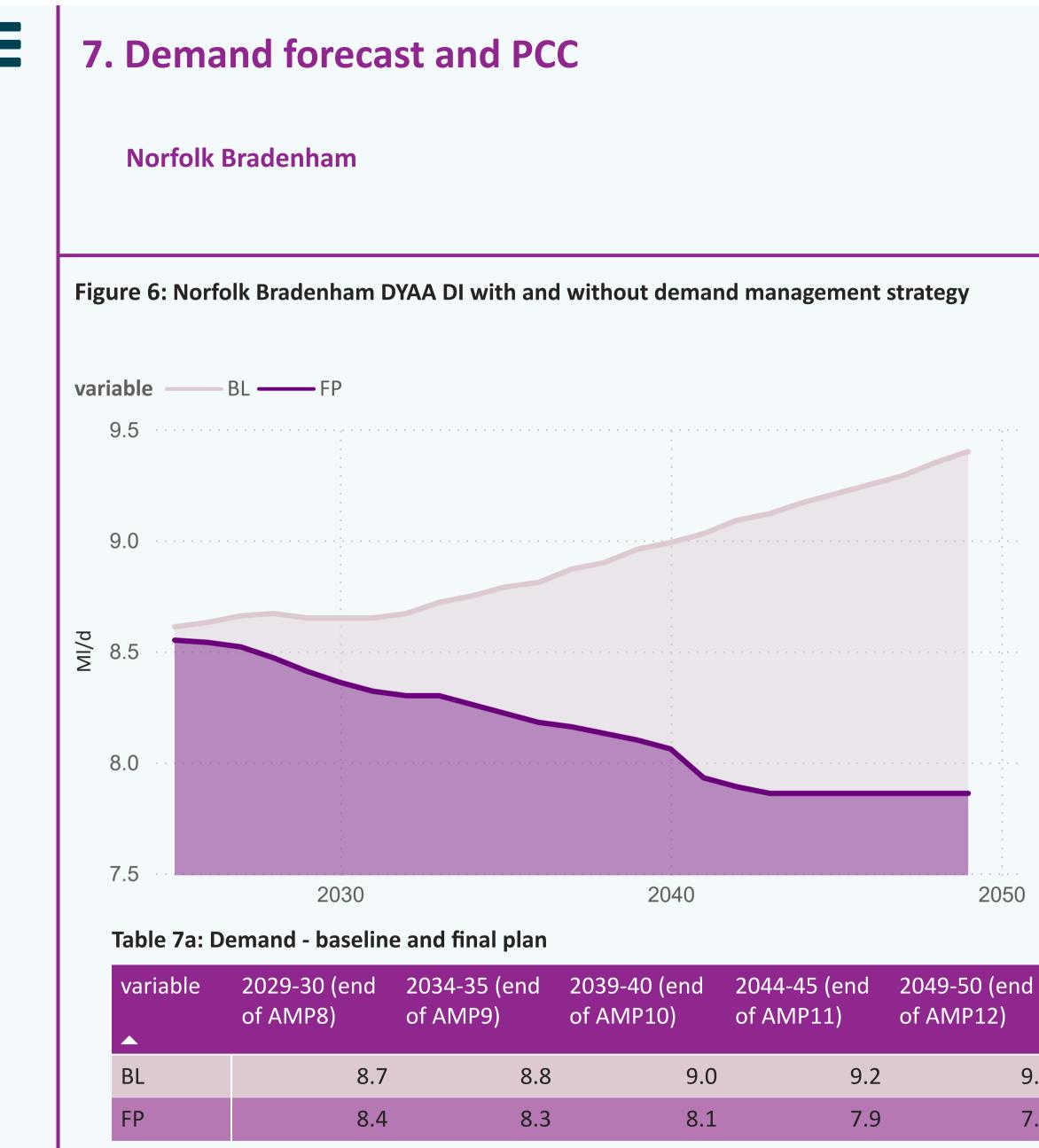
Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 7.3 MI/d in 2025 to 8.1 MI/d in 2050, a percentage change of 11.4 %.
- Baseline Leakage: is forecast to change from 1.7 Ml/d in 2025 to 1.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 2.0 Ml/d to 2.3 Ml/d.
- Baseline Distribution Input: is expected to change from 11.0 MI/d to 12.1 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).









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Demand Norfolk Bradenham (see Table 7a)

Baseline demand is expected to increase from 8.6 (MI/d) in 2025 to 9.4 (MI/d) in 2050. With demand management options in place, demand is expected to be 7.9 (MI/d).

PCC Norfolk Bradenham (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 112.2 (l/h/d) measured and 186.2 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 118.8 (I/h/d) in 2025/26. This is forecast to fall to 97.6 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

9.4 7.9

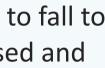
Table 7b: DMO strategy Final Plan

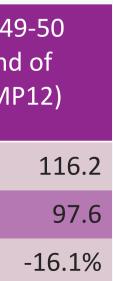
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	116.4	115.2	116.0	115.8	
FP demand forecast(DYAA)	113.5	109.1	104.0	99.1	
% change BL to FP	-2.5%	-5.3%	-10.4%	-14.4%	











8. Demand management options

Norfolk Bradenham

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

 $\mathbf{ }$

• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

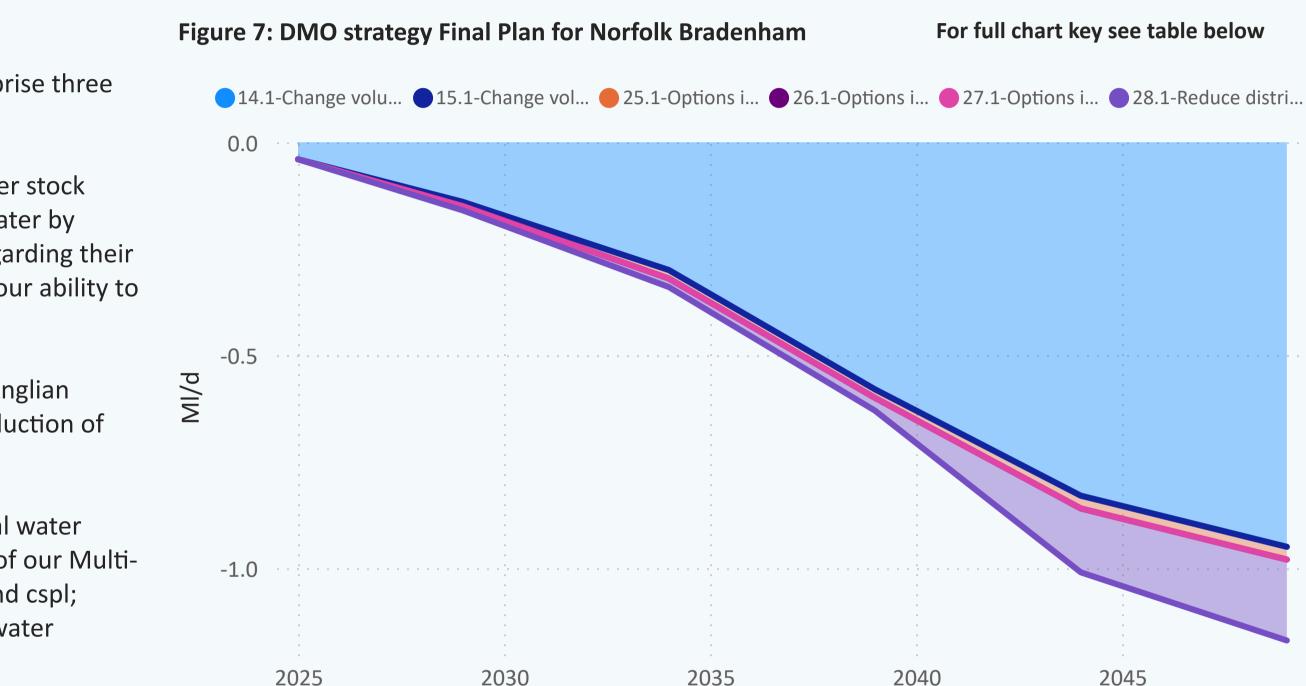
Table 8: DMO strategy Final Plan for Norfolk Bradenham

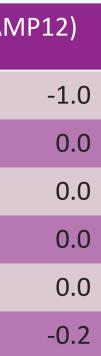
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.1	-0.3	-0.6	-0.8	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	0.0	-0.2	











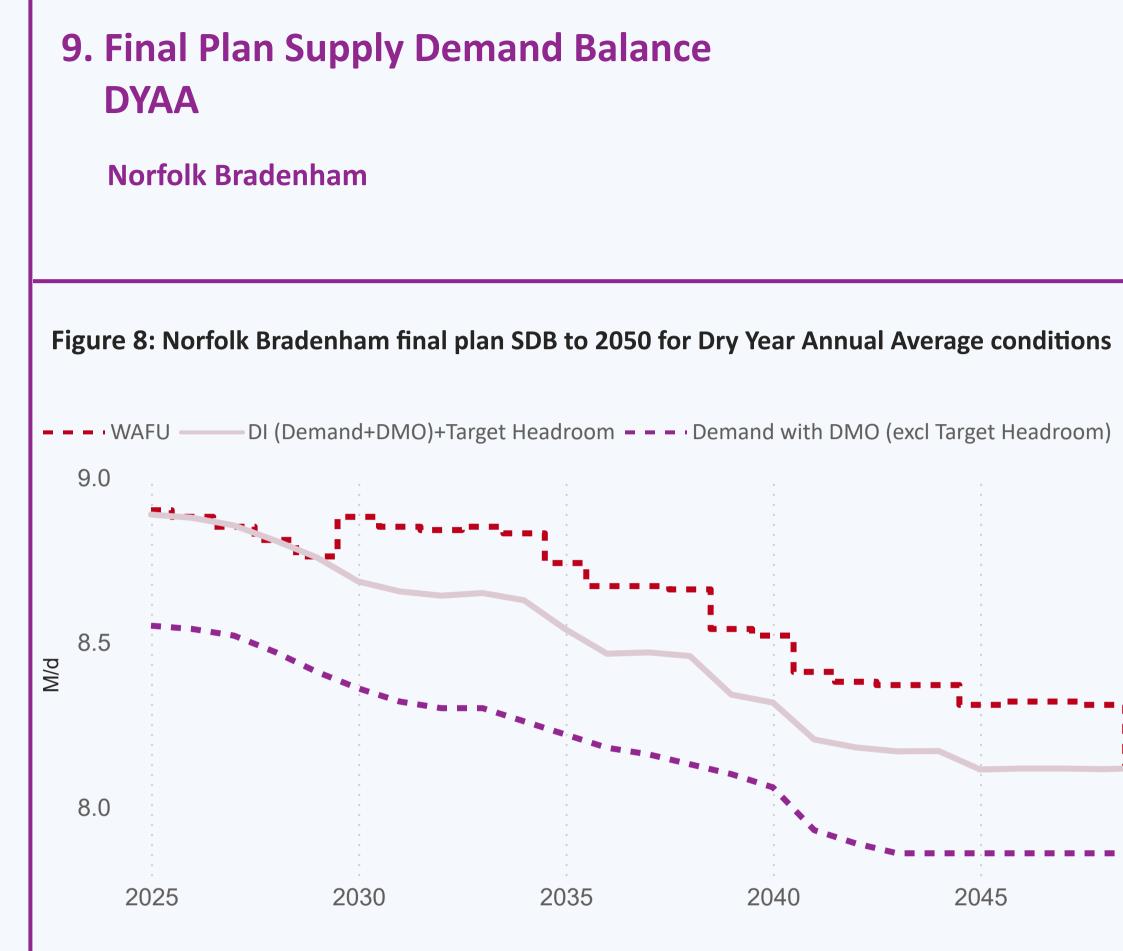


Table 9a: final plan SDB to 2050 for Dry Year conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	8.9	8.9	7.8	4.0	4.0	4.0
Net Transfers	0.0	-0.2	1.0	4.5	4.4	4.1
Total Water Available For Use	8.9	8.8	8.8	8.5	8.4	8.1
Distribution Input	8.6	8.4	8.3	8.1	7.9	7.9
Target Headroom	0.3	0.3	0.4	0.2	0.3	0.3
Supply Demand Balance	0.0	0.0	0.2	0.2	0.2	0.0



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Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)

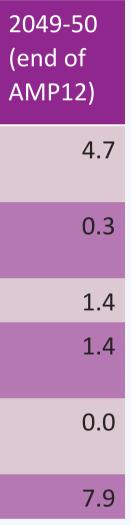
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	4.6	4.7	4.7	4.7	4.6
Water delivered unmeasured household	0.8	0.7	0.5	0.4	0.4
Total Leakage	1.7	1.6	1.6	1.6	1.5
Water delivered measured non- household	1.5	1.5	1.4	1.4	1.4
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	8.6	8.4	8.3	8.1	7.9

DYAA FP supply demand summary: Norfolk Bradenham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 5.4 MI/d in 2025 to 5.0 MI/d in 2050, a percentage change of -6.7 %.
- Final Plan Leakage is forecast to change from 1.7 Ml/d in 2025 to 1.4 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 1.5 Ml/d to 1.4 Ml/d.
- Final Plan Distribution Input is expected to change from 8.6 Ml/d to 7.9 Ml/d by 2050.





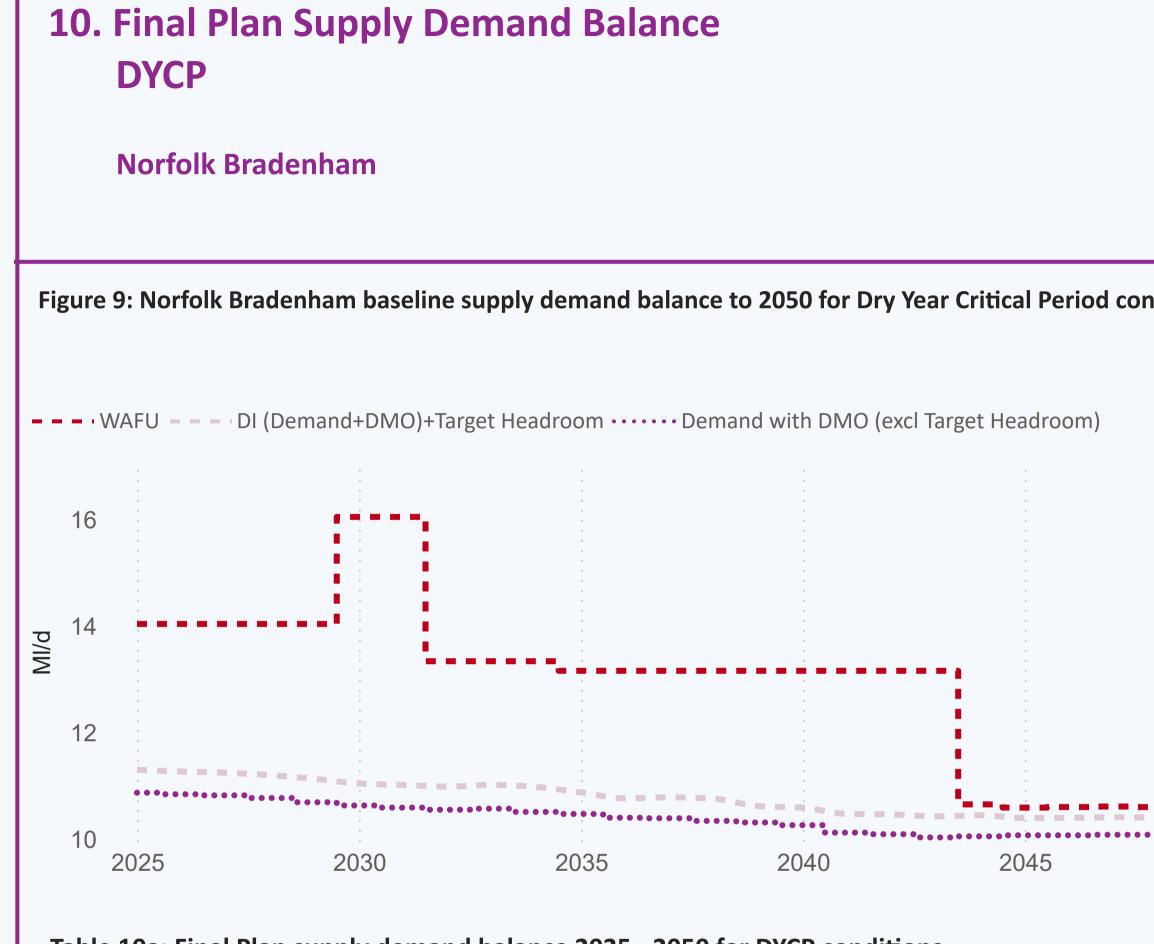


Table 10a: Final Plan supply demand balance 2025 - 2050 for DYCP conditions

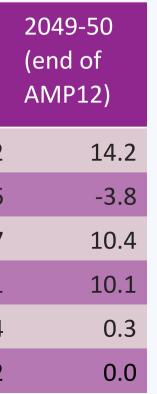
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	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water Available For Use	14.0	14.0	14.2	14.2	14.2
Net Transfers	0.0	0.0	-0.9	-1.1	-3.6
Total Water Available For Use	14.0	14.0	13.3	13.2	10.7
Distribution Input	10.9	10.7	10.5	10.3	10.1
Target Headroom	0.4	0.4	0.5	0.3	0.4
Supply Demand Balance	2.7	2.9	2.4	2.5	0.2





nditions	Table 10b: Final Plan demand options)	Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand manage options)								
		2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049 (end AMF			
	Water delivered measured household	6.1	6.2	6.2	6.2	6.2				
	Water delivered unmeasured household	1.1	0.9	0.7	0.6	0.5				
	Total Leakage	1.7	1.6	1.6	1.6	1.5				
	Water delivered measured non-household	2.0	2.0	1.9	1.9	1.8				
	Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0				
	Distribution Input	10.9	10.7	10.5	10.3	10.1				

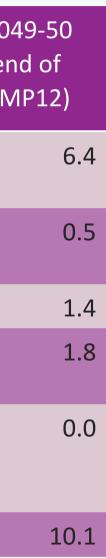


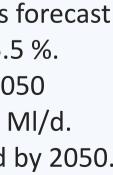
DYCP BL supply demand summary: Norfolk Bradenham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 7.2 Ml/d in 2025 to 6.8 Ml/d in 2050, a percentage change of -5.5 %.
- Final Plan Leakage: is forecast to change from 1.7 Ml/d in 2025 to 1.4 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 2.0 Ml/d to 1.8 Ml/d.
- Final Plan Distribution Input: is expected to change from 10.9 Ml/d to 10.1 Ml/d by 2050.

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Norfolk Bradenham

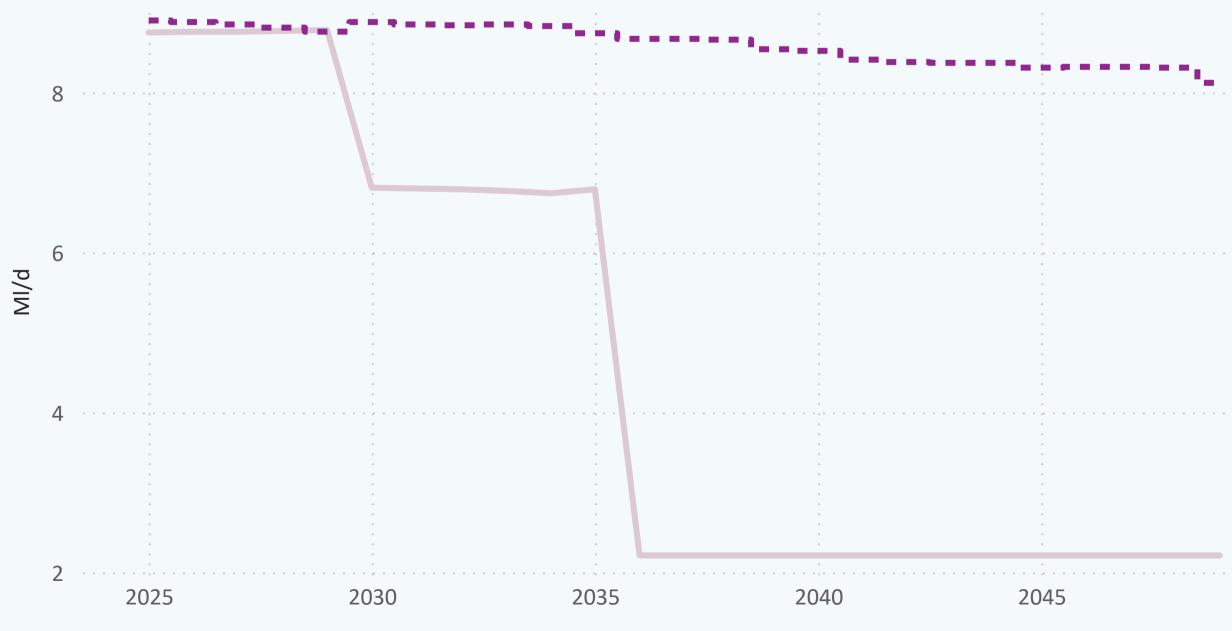
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Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	8.8	6.7	2.2	2.2	
WAFU - FP	8.8	8.8	8.5	8.4	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)

-WAFU - BL(adjusted for licence cap scenario 8 and 1:200 Drought)) - - - WAFU - FP





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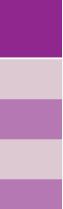
Supply side strategy options.

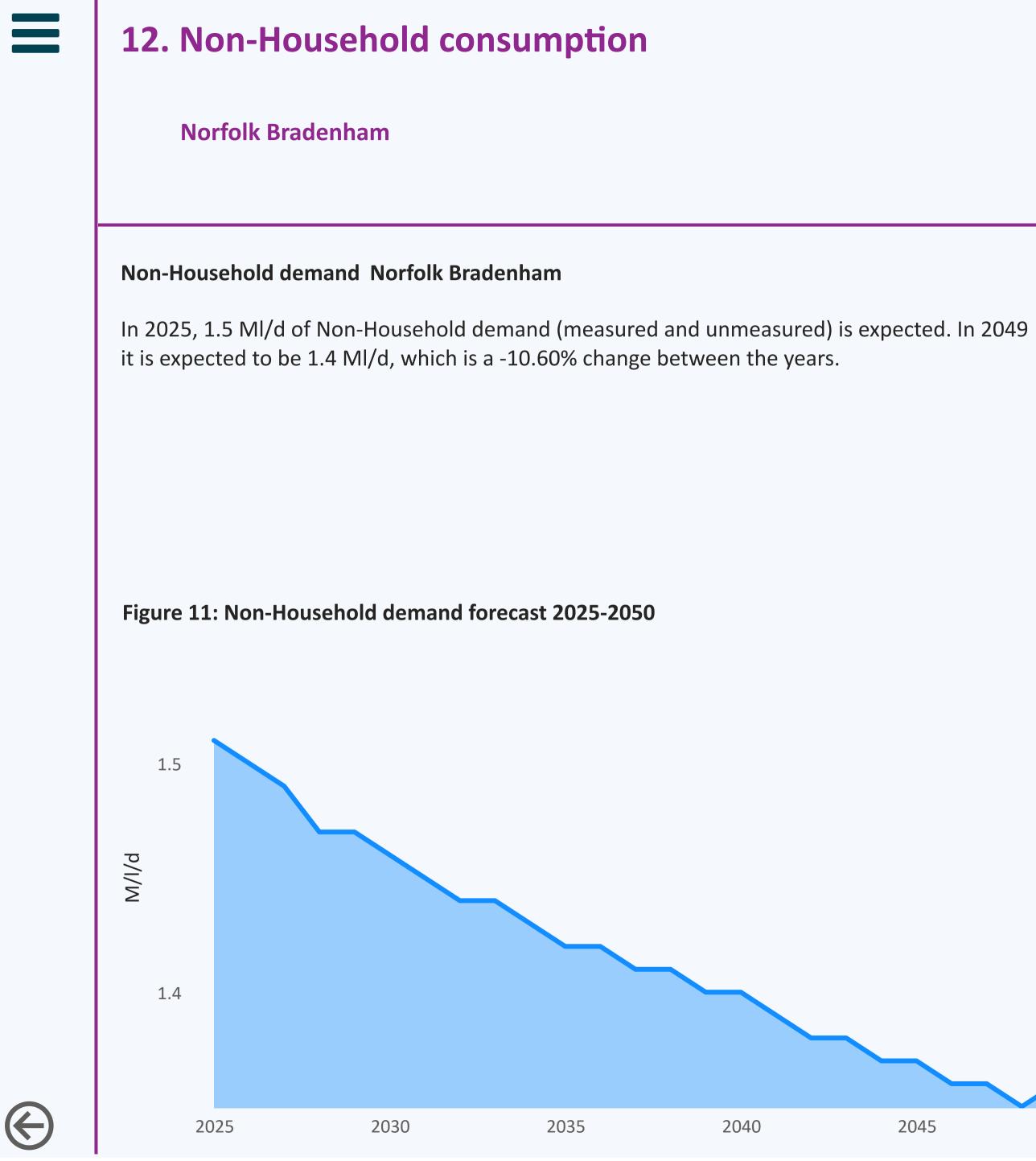
For details on the feasible options list for Norfolk Bradenham WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options Option ID First Option Name

EE06	Adjustment to existing potable water export
LC08	Adjustment for Licence cap scenario 8
NBR6	Fenland to Norfolk Bradenham potable transfer (45 Ml/d)
NBR9	Norfolk Bradenham WTW backwash water recovery





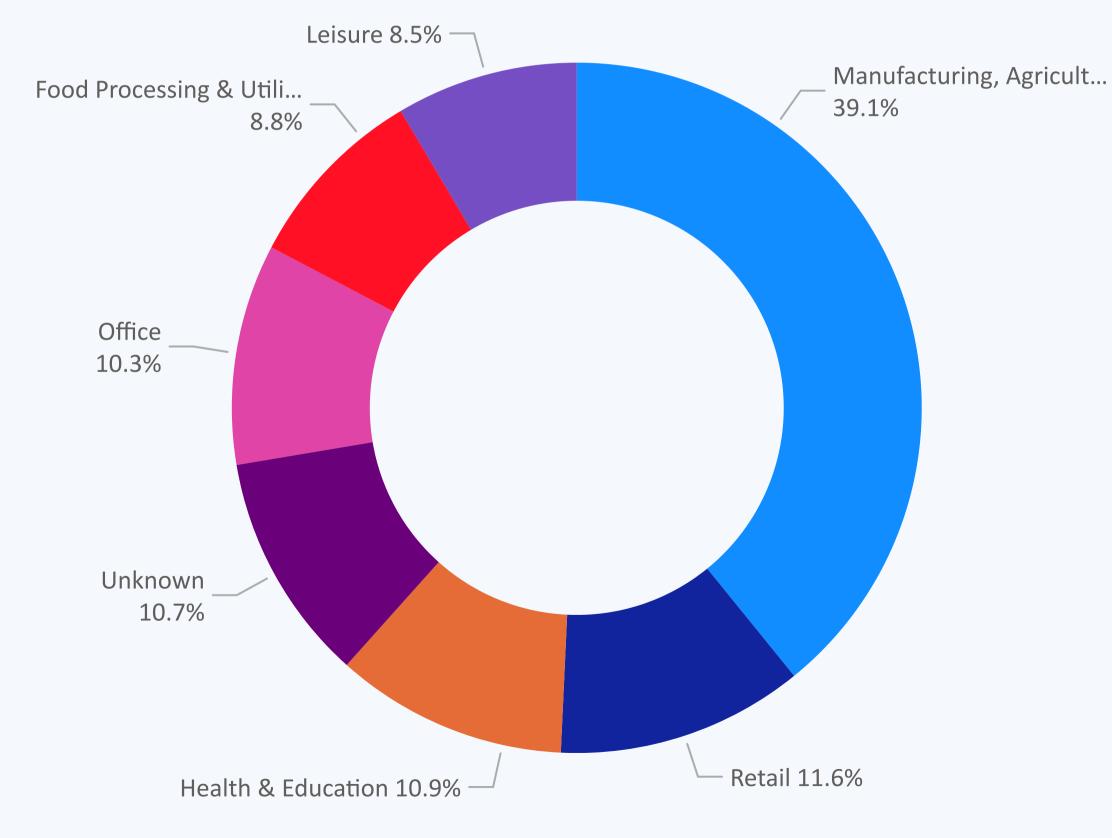




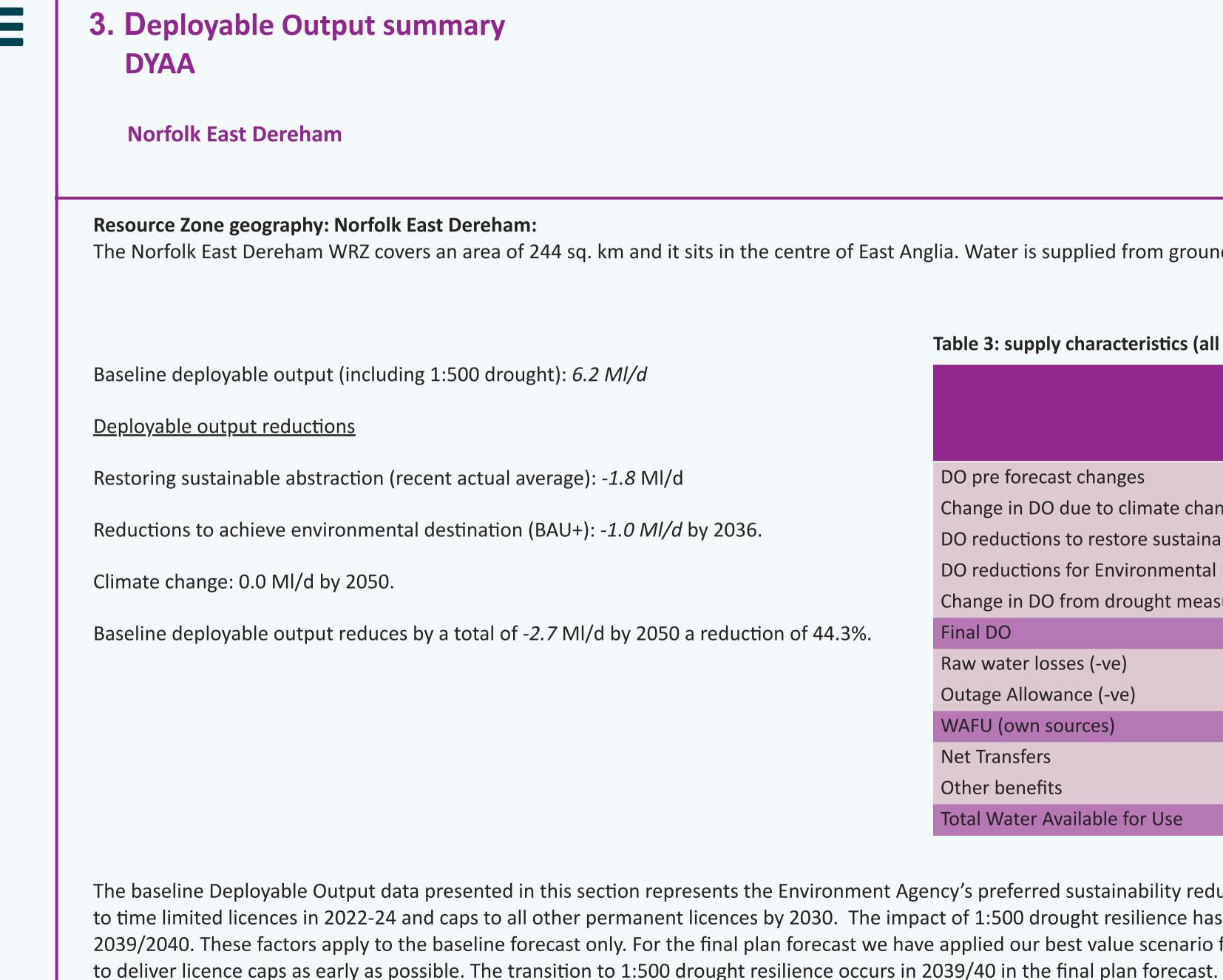














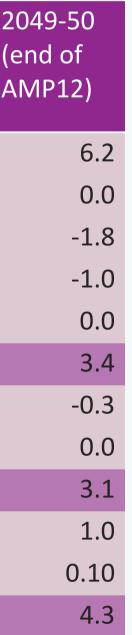
The Norfolk East Dereham WRZ covers an area of 244 sq. km and it sits in the centre of East Anglia. Water is supplied from groundwater abstractions from the Norfolk Chalk aquifer.

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 ((A
DO pre forecast changes	6.2	6.2	6.2	6.2	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-1.0	-1.8	-1.8	-1.8	
DO reductions for Environmental Destination	0.0	0.0	-1.0	-1.0	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	5.1	4.4	3.4	3.4	
Raw water losses (-ve)	-0.3	-0.3	-0.3	-0.3	
Outage Allowance (-ve)	0.0	0.0	0.0	0.0	
WAFU (own sources)	4.8	4.1	3.1	3.1	
Net Transfers	0.1	0.6	1.1	1.0	
Other benefits	1.04	0.10	0.10	0.10	
Total Water Available for Use	6.0	4.8	4.3	4.3	

Table 3: supply characteristics (all values are MI/d)

The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process Further information is available in the WRMP24 Decision Making technical supporting document, section 6.





4. Population & Housing

Norfolk East Dereham

Over the WRMP period, population in **Norfolk** East Dereham is set to increase from 21617 in 2025 to **24414** in 2049-50 - this is an increase of **12.9 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	22
2034-35 (end of AMP9)	22
2039-40 (end of AMP10)	23
2044-45 (end of AMP11)	23
2049-50 (end of AMP12)	24

Over the WRMP period, property numbers in Norfolk East Dereham are set to increase from **9338** in 2025 to **11121** in 2049-50 - this is an increase of **19.1 %** over the 25 years.

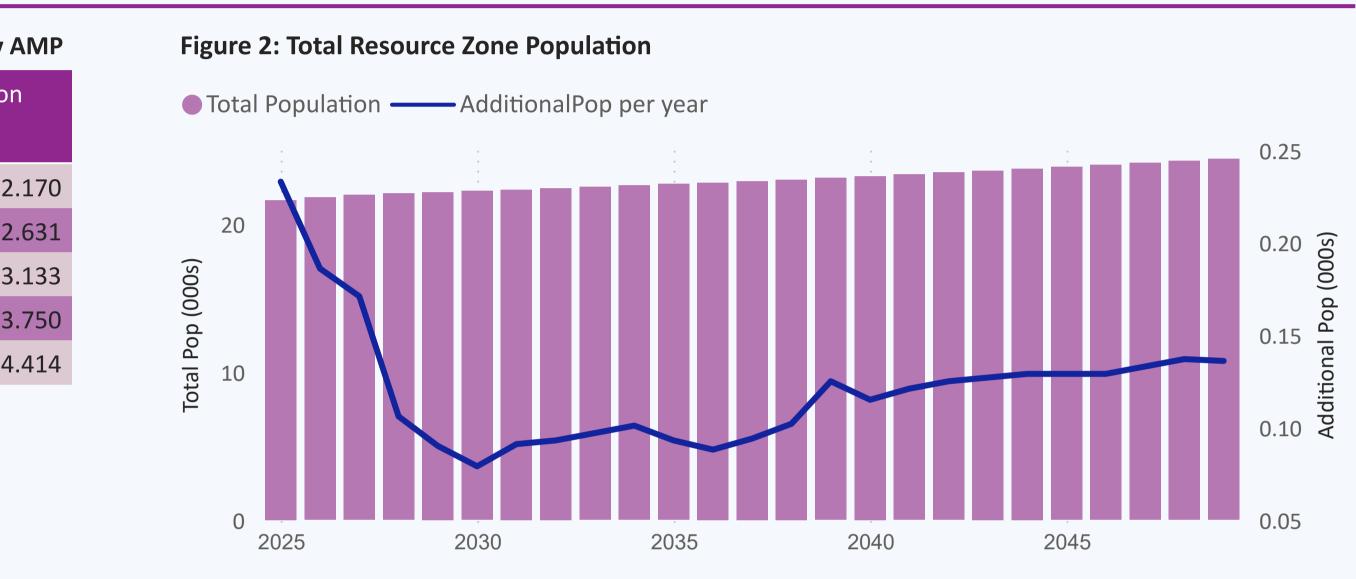
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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties excl voids (000s
2029-30 (end of AMP8)	9.
2034-35 (end of AMP9)	10.
2039-40 (end of AMP10)	10.
2044-45 (end of AMP11)	10.
2049-50 (end of AMP12)	11.

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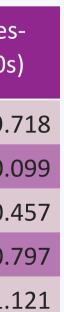
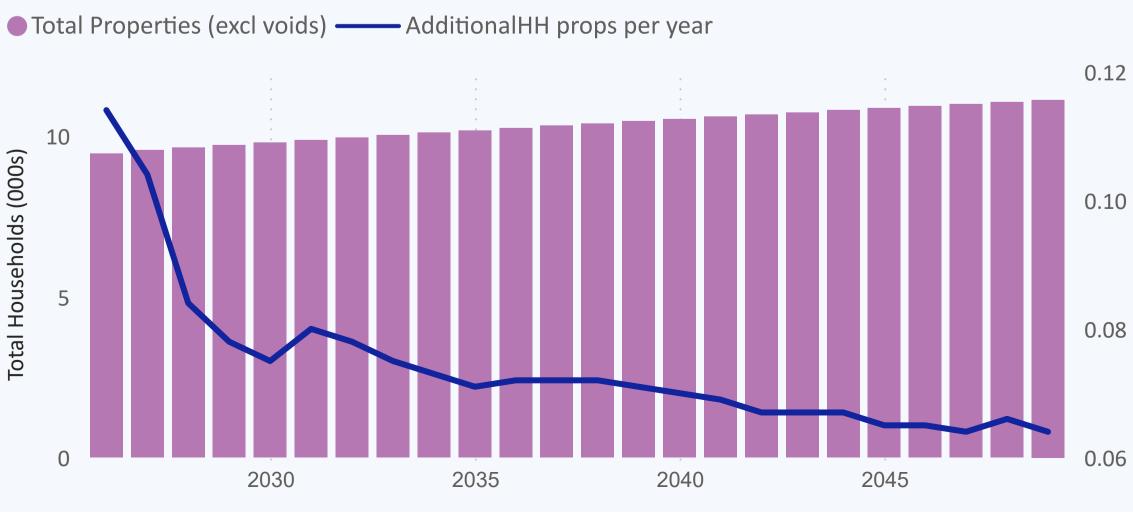
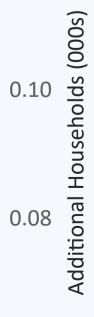


Figure 3: Total Resource Zone Properties (excl. voids)









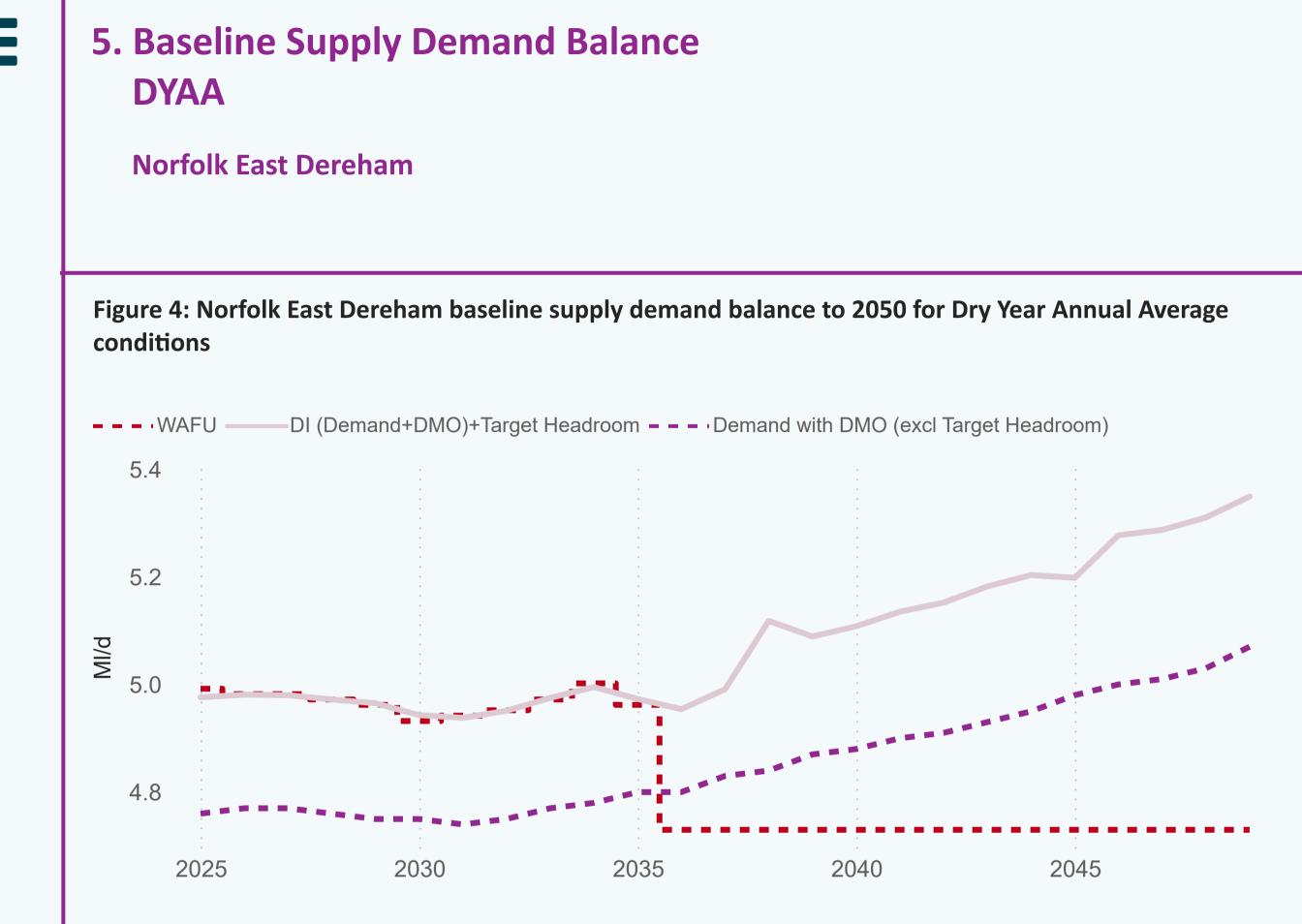


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	4.8	4.8	4.1	3.1	3.1	3.1
Net Transfers	0.2	0.2	0.9	1.6	1.6	1.6
Total Water Available For Use	5.0	5.0	5.0	4.7	4.7	4.7
Distribution Input	4.8	4.8	4.8	4.9	5.0	5.1
Target Headroom	0.2	0.2	0.2	0.2	0.3	0.3
Supply Demand Balance	0.0	0.0	0.0	-0.4	-0.5	-0.6





Table 5b: Baseline demand forecast (without preferred demand management options)

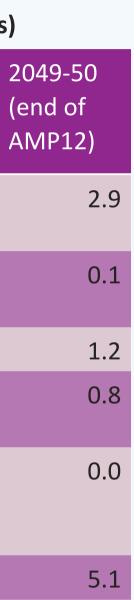
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	2.3	2.4	2.5	2.7	2.8
Water delivered unmeasured household	0.5	0.4	0.3	0.2	0.1
Total Leakage	1.2	1.2	1.2	1.2	1.2
Water delivered measured non-household	0.7	0.7	0.7	0.8	0.8
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	4.8	4.8	4.8	4.9	5.0

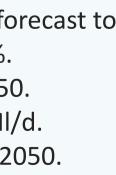
DYAA BL supply demand summary: Norfolk East Dereham

Baseline Supply Demand Balance: This zone is not expected to go into deficit (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 2.8 MI/d in 2025 to 3.0 MI/d in 2050, a percentage change of 7.1 %.
- Baseline Leakage: is forecast to change from 1.2 Ml/d in 2025 to 1.2 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 0.7 Ml/d to 0.8 Ml/d.
- Baseline Distribution Input: is expected to change from 4.8 Ml/d to 5.1 Ml/d by 2050.







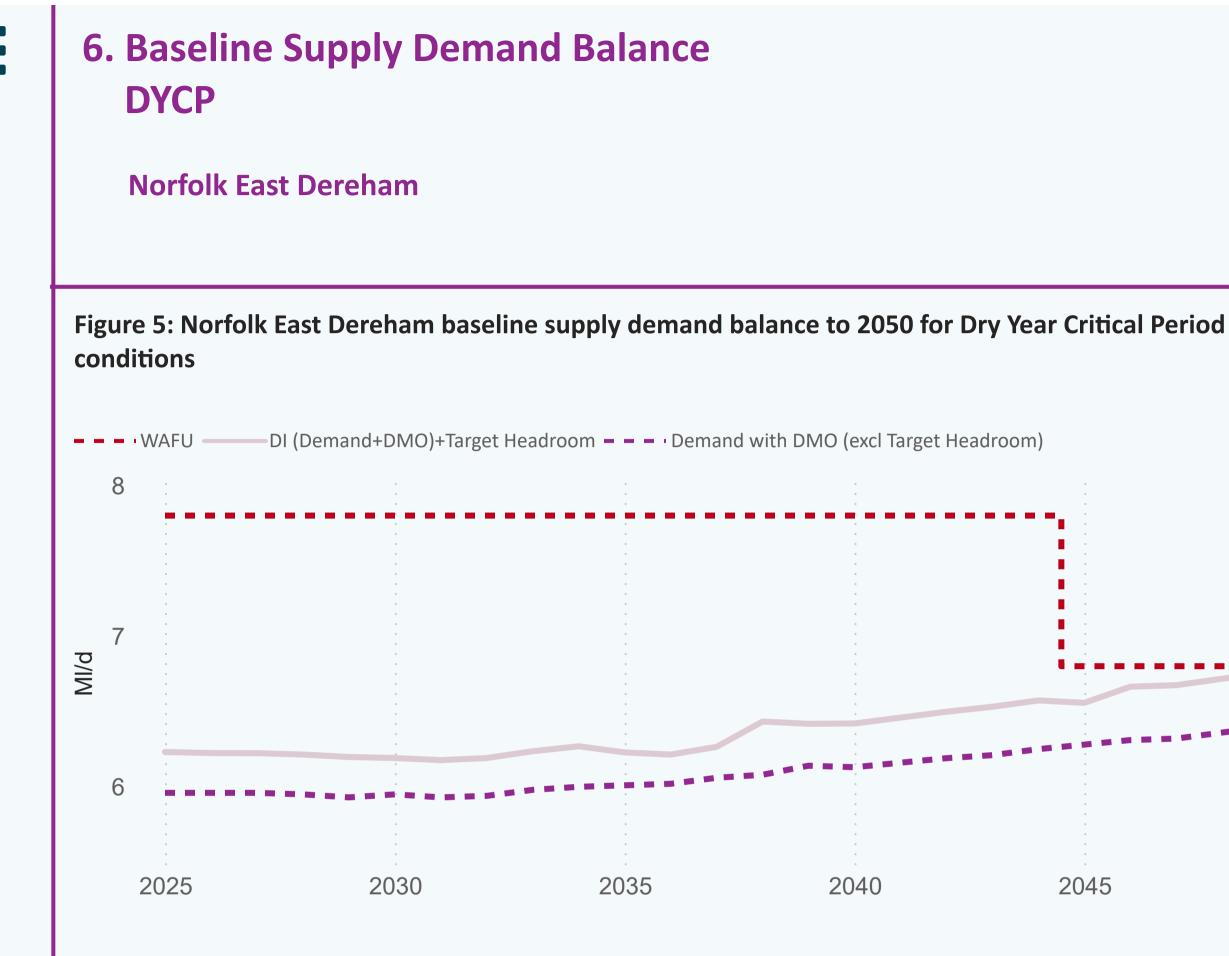


Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions

2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
7.8	7.8	7.8	7.8	7.
0.0	0.0	0.0	0.0	0.
7.8	7.8	7.8	7.8	7.
6.0	5.9	6.0	6.1	6.
0.3	0.3	0.3	0.3	0.
1.6	1.6	1.5	1.4	1.
	(start of AMP8) 7.8 0.0 7.8 6.0 0.3	(start of AMP8)(end of AMP8)7.87.80.00.07.87.87.87.86.05.90.30.3	(start of AMP8)(end of AMP8)(end of AMP9)7.87.87.80.00.00.07.87.87.86.05.96.00.30.30.3	(start of AMP8)(end of AMP8)(end of AMP9)(end of AMP10)7.87.87.87.80.00.00.00.07.87.87.87.86.05.96.06.10.30.30.30.3







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water delivered measured household	3.0	3.2	3.3	3.6	3.8	3.9
Water delivered unmeasured household	0.8	0.6	0.4	0.3	0.2	0.1
Total Leakage	1.2	1.2	1.2	1.2	1.2	1.2
Water delivered measured non-household	1.0	1.0	1.0	1.0	1.1	1.1
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	0.0
Distribution Input	6.0	5.9	6.0	6.1	6.3	6.4

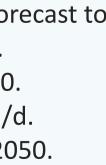
2049-50 (end of AMP12)							
8	7.8						
0	-1.0						
8	6.8						
3	6.4						
3	0.4						
2	0.0						

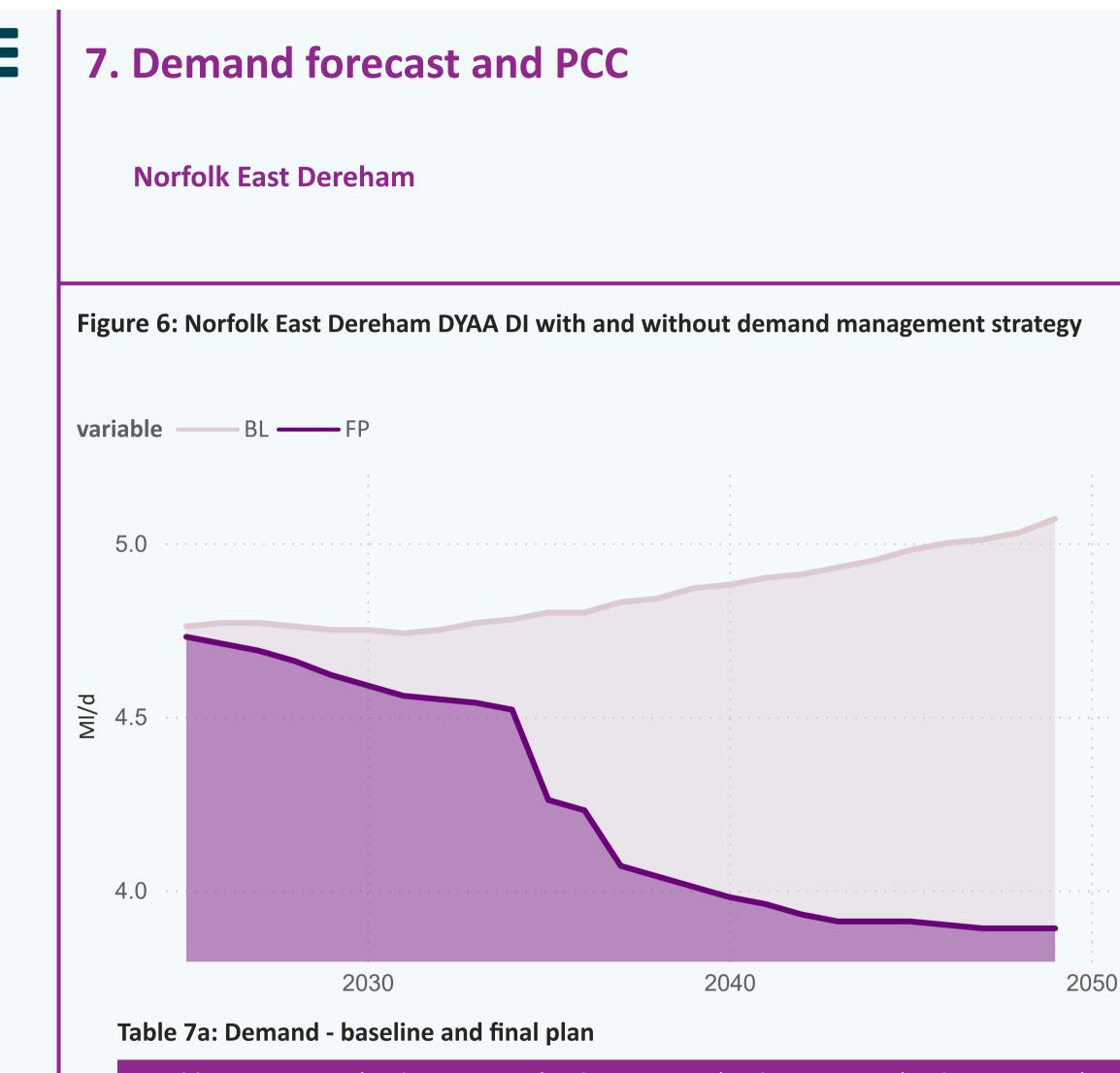
DYCP BL supply demand summary: Norfolk East Dereham

Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 3.8 MI/d in 2025 to 4.1 MI/d in 2050, a percentage change of 7.9 %.
- Baseline Leakage: is forecast to change from 1.2 Ml/d in 2025 to 1.2 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.0 Ml/d to 1.1 Ml/d.
- Baseline Distribution Input: is expected to change from 6.0 MI/d to 6.4 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).





variable	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (enc of AMP12)
BL	4.8	4.8	4.9	5.0	5
FP	4.6	4.5	4.0	3.9	3



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Demand Norfolk East Dereham (see Table 7a)

Baseline demand is expected to increase from 4.8 (MI/d) in 2025 to 5.1 (MI/d) in 2050. With demand management options in place, demand is expected to be 3.9 (MI/d).

PCC Norfolk East Dereham (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 112.0 (l/h/d) measured and 231.9 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 124.0 (I/h/d) in 2025/26. This is forecast to fall to 99.5 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

5.1 3.9

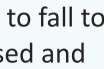
Table 7b: DMO strategy Final Plan

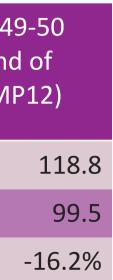
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	120.4	118.9	118.9	118.3	
FP demand forecast(DYAA)	117.7	112.7	106.3	101.5	
% change BL to FP	-2.2%	-5.2%	-10.5%	-14.2%	











8. Demand management options

Norfolk East Dereham

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

 We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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 Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27Ml/d across the region by 2025).

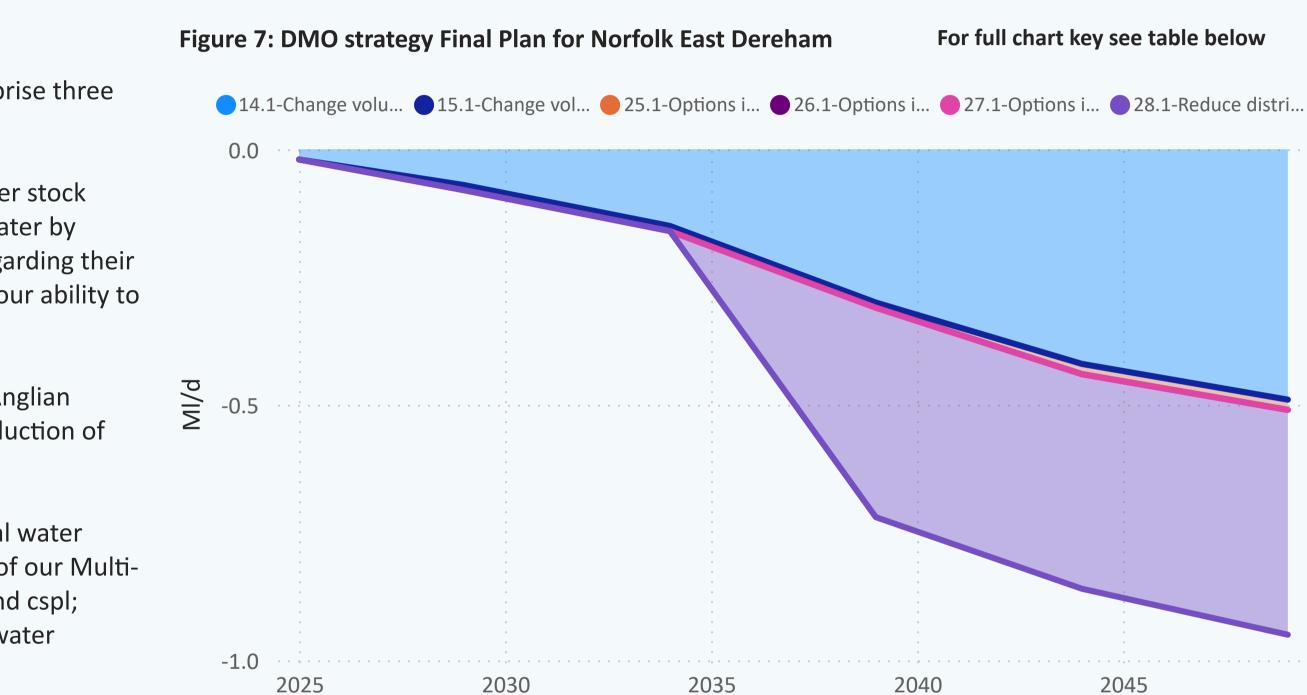
Water efficiency measures

New technologies and interventions will help promote the careful use of water. Additional water
efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl;
Community reward schemes. As part of our WRMP24 we have developed and included 'water
efficiency visits' and leakage reduction measures for our Non-Household customers.

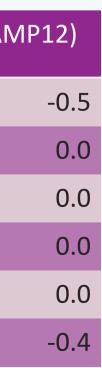
Table 8: DMO strategy Final Plan for Norfolk East Dereham

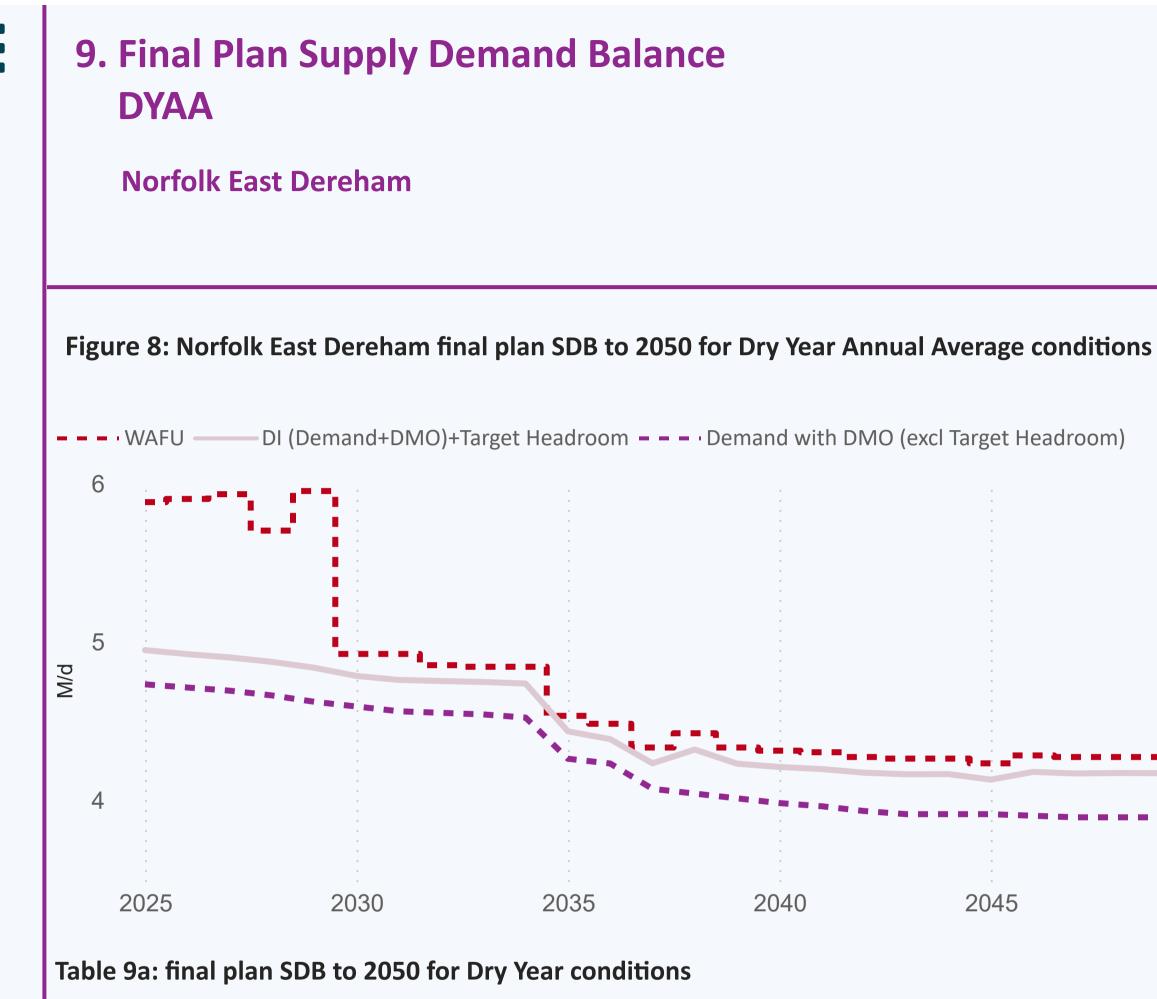
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.1	-0.2	-0.3	-0.4	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	-0.4	-0.4	











	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	5.9	5.9	4.2	3.2	3.2	3.2
Net Transfers	0.0	0.1	0.6	1.1	1.0	1.0
Total Water Available For Use	5.9	6.0	4.8	4.3	4.3	4.3
Distribution Input	4.7	4.6	4.5	4.0	3.9	3.9
Target Headroom	0.2	0.2	0.2	0.2	0.3	0.3
Supply Demand Balance	0.9	1.1	0.1	0.1	0.1	0.1

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	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (e AN
Water delivered measured household	2.3	2.3	2.4	2.4	2.4	
Water delivered unmeasured household	0.5	0.4	0.3	0.2	0.1	
Total Leakage	1.2	1.2	1.2	0.8	0.8	
Water delivered measured non- household	0.7	0.7	0.6	0.6	0.6	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	4.7	4.6	4.5	4.0	3.9	

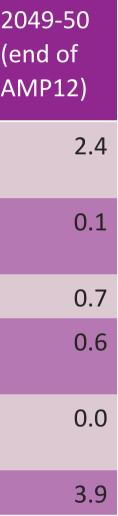
DYAA FP supply demand summary: Norfolk East Dereham

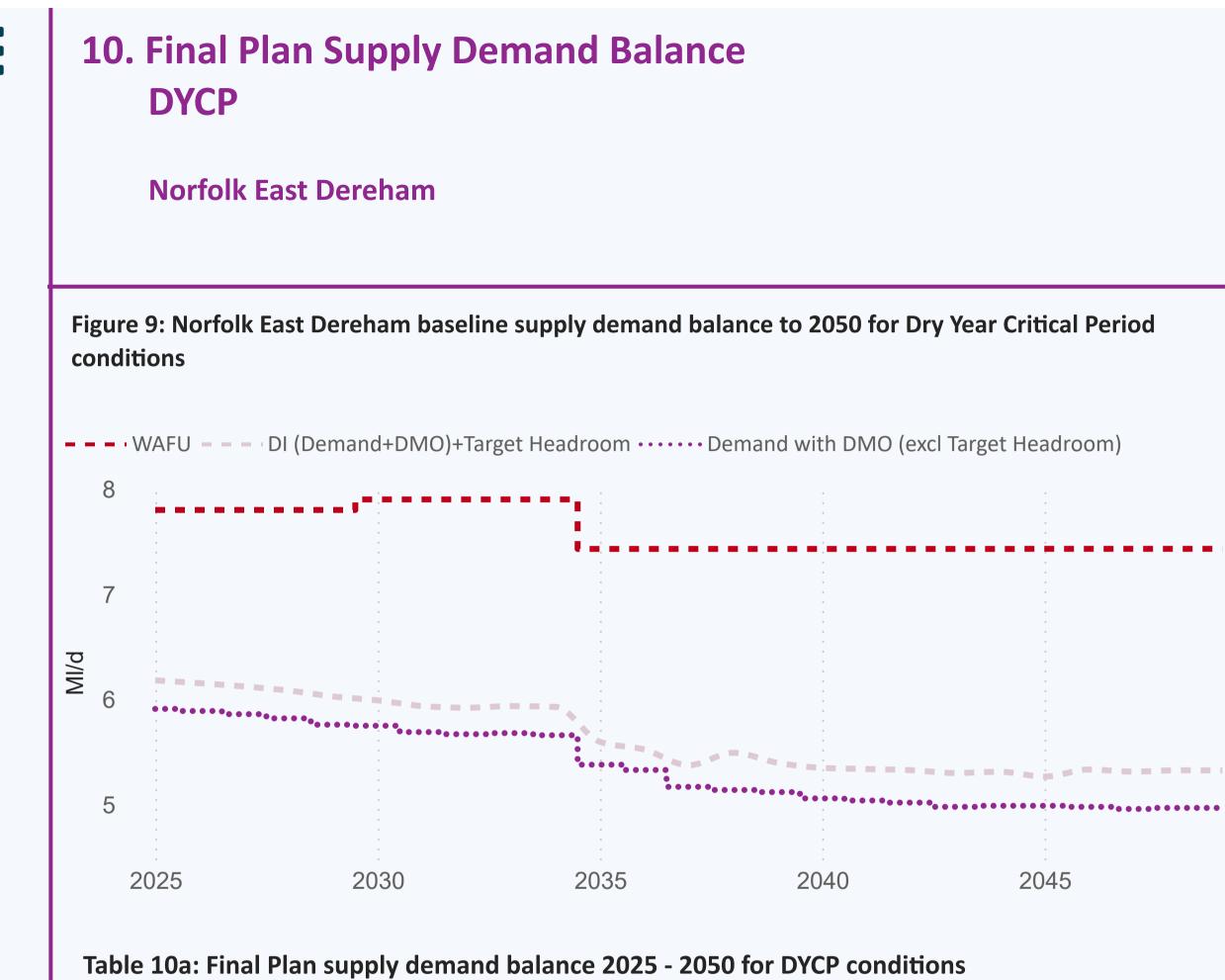
The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 2.8 MI/d in 2025 to 2.5 MI/d in 2050, a percentage change of -9.6 %.
- Final Plan Leakage is forecast to change from 1.2 Ml/d in 2025 to 0.7 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 0.7 Ml/d to 0.6 Ml/d.
- Final Plan Distribution Input is expected to change from 4.7 Ml/d to 3.9 Ml/d by 2050.



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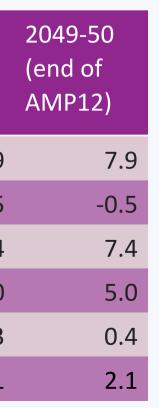
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	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water Available For Use	7.8	7.8	7.9	7.9	7.9
Net Transfers	0.0	0.0	0.0	-0.5	-0.5
Total Water Available For Use	7.8	7.8	7.9	7.4	7.4
Distribution Input	5.9	5.8	5.7	5.1	5.0
Target Headroom	0.3	0.3	0.3	0.3	0.3
Supply Demand Balance	1.6	1.8	2.0	2.0	2.1



Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (e AN
Water delivered measured household	3.0	3.1	3.1	3.2	3.2	
Water delivered unmeasured household	0.8	0.6	0.4	0.3	0.2	
Total Leakage	1.2	1.2	1.2	0.8	0.8	
Water delivered measured non-household	0.9	0.9	0.9	0.8	0.8	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	5.9	5.8	5.7	5.1	5.0	

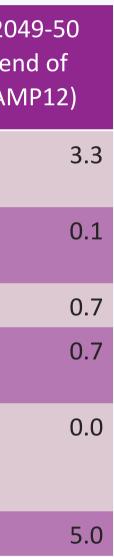


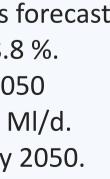
DYCP BL supply demand summary: Norfolk East Dereham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 3.8 MI/d in 2025 to 3.4 MI/d in 2050, a percentage change of -8.8 %.
- Final Plan Leakage: is forecast to change from 1.2 Ml/d in 2025 to 0.7 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 0.9 Ml/d to 0.7 Ml/d.
- Final Plan Distribution Input: is expected to change from 5.9 Ml/d to 5.0 Ml/d by 2050.









Norfolk East Dereham

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Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	6.0	5.0	4.7	4.7	
WAFU - FP	6.0	4.8	4.3	4.3	

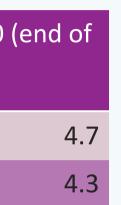
Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)

-WAFU - BL(adjusted for licence cap scenario 8 and 1:200 Drought)) - - - WAFU - FP









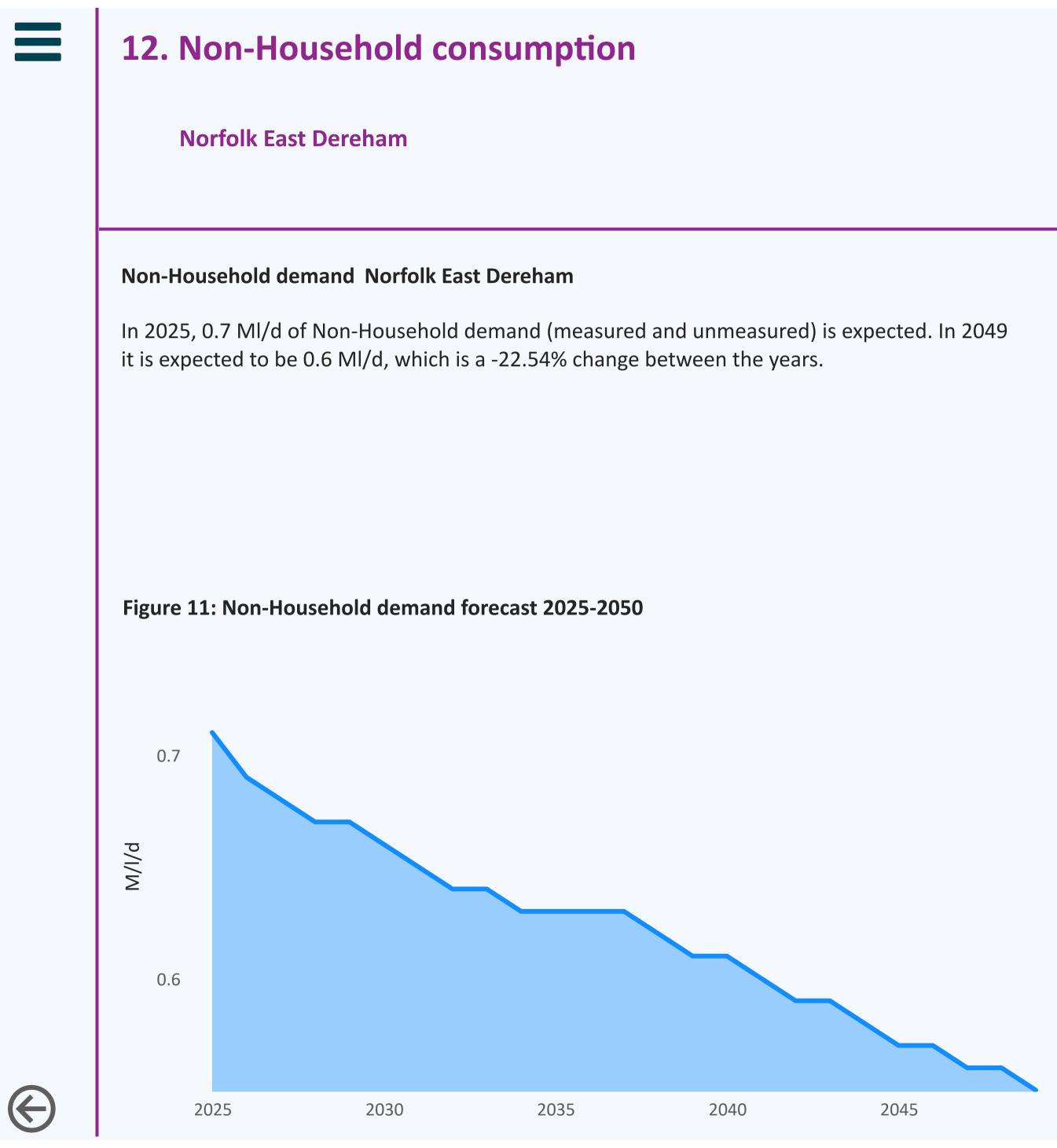
Supply side strategy options.

For details on the feasible options list for Norfolk East Dereham WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options **Option ID** First Option Name Adjustment to existing potable water export **EE07** Adjustment to existing potable water import E108 Adjustment for Licence cap scenario 8 LC09 Norfolk Bradenham to Norfolk East Dereham potable transfer (10 Ml/d) NED2 Norfolk East Dereham WTW backwash water recovery NED3





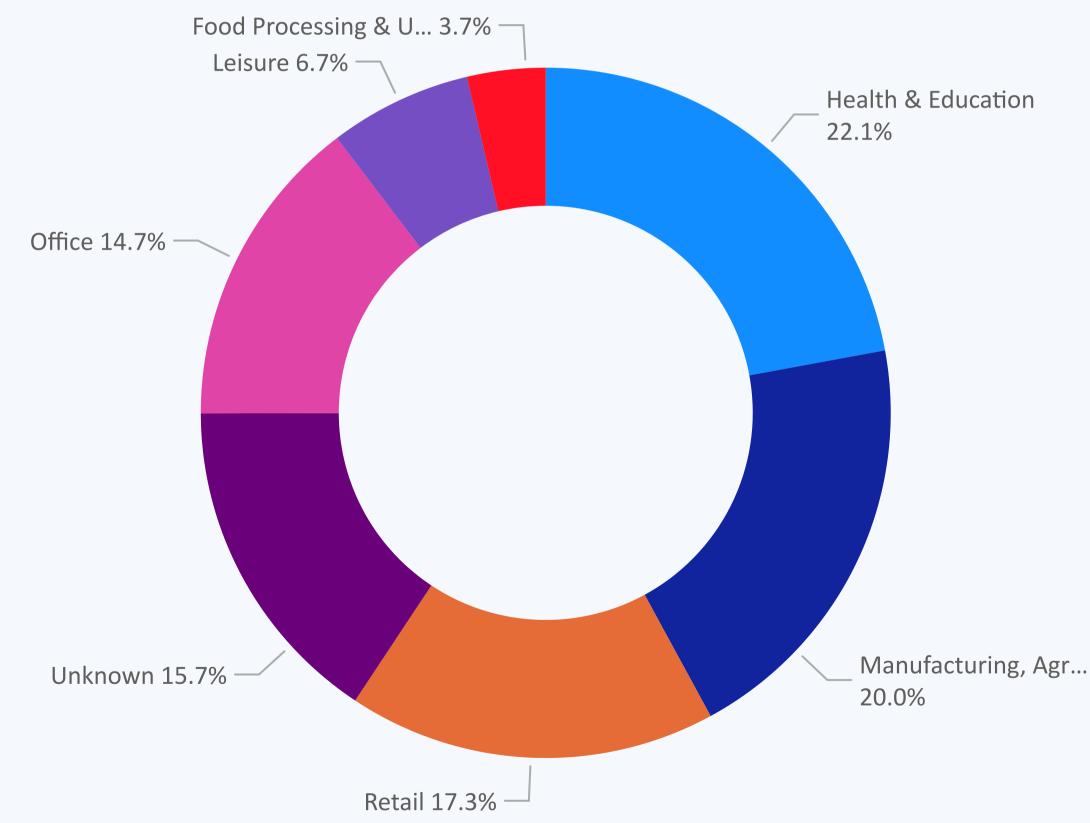


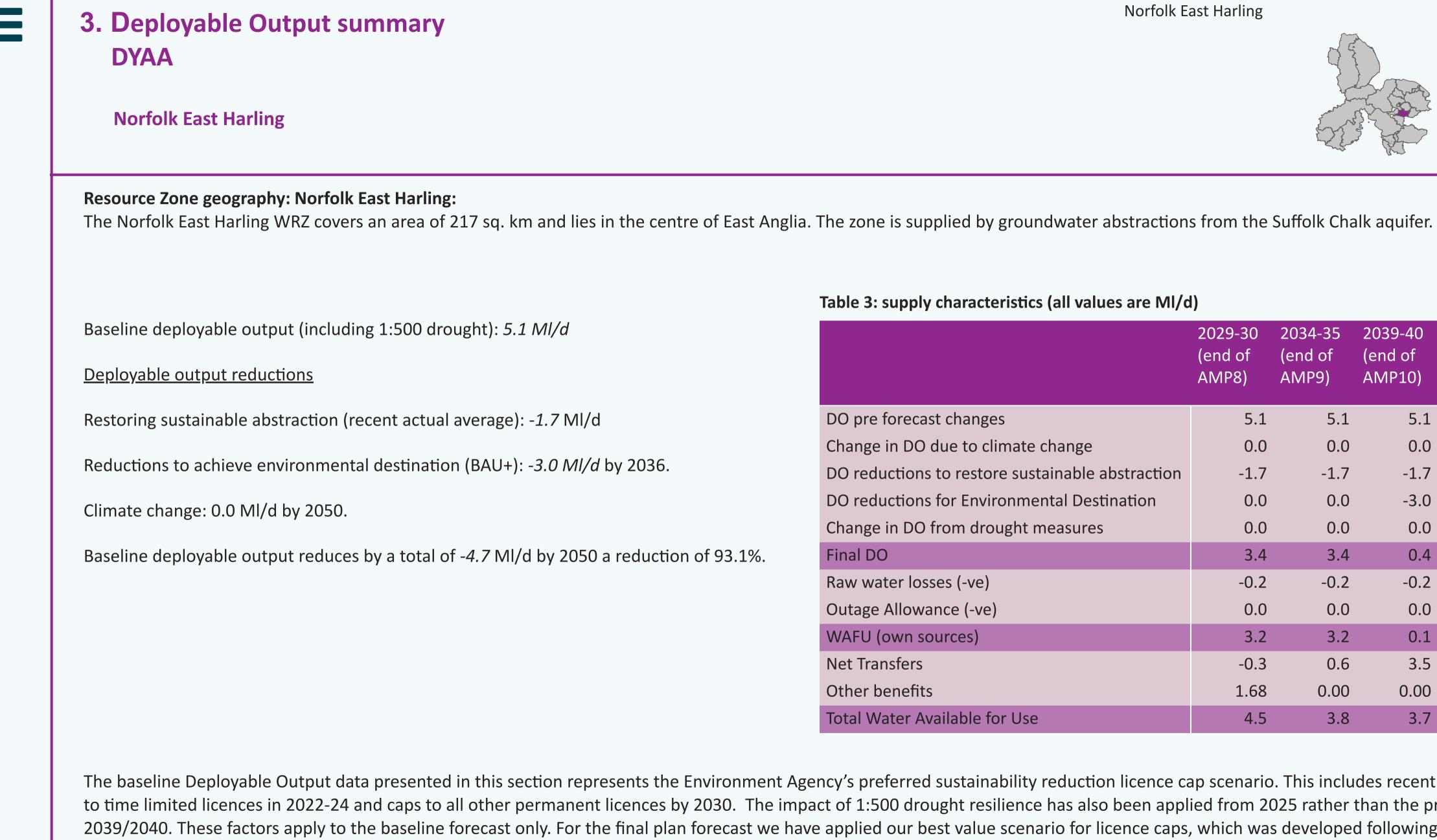












Data source: WRMP24 Tables submitted to the EA autumn 2023

Norfolk East Harling



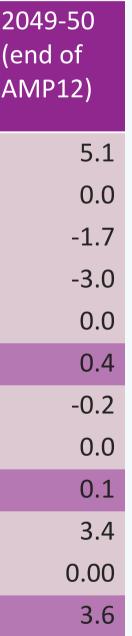
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	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 ((/
DO pre forecast changes	5.1	5.1	5.1	5.1	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-1.7	-1.7	-1.7	-1.7	
DO reductions for Environmental Destination	0.0	0.0	-3.0	-3.0	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	3.4	3.4	0.4	0.4	
Raw water losses (-ve)	-0.2	-0.2	-0.2	-0.2	
Outage Allowance (-ve)	0.0	0.0	0.0	0.0	
WAFU (own sources)	3.2	3.2	0.1	0.1	
Net Transfers	-0.3	0.6	3.5	3.4	
Other benefits	1.68	0.00	0.00	0.00	
Total Water Available for Use	4.5	3.8	3.7	3.6	

Table 3: supply characteristics (all values are MI/d)

The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.





4. Population & Housing

Norfolk East Harling

Over the WRMP period, population in **Norfolk** East Harling is set to increase from 12599 in 2025 to **14238** in 2049-50 - this is an increase of **13.0 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	12
2034-35 (end of AMP9)	13
2039-40 (end of AMP10)	13
2044-45 (end of AMP11)	13
2049-50 (end of AMP12)	14

Over the WRMP period, property numbers in Norfolk East Harling are set to increase from **5384** in 2025 to **6404** in 2049-50 - this is an increase of **18.9 %** over the 25 years.

 $\mathbf{ }$

Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)
2029-30 (end of AMP8)	5.618
2034-35 (end of AMP9)	5.829
2039-40 (end of AMP10)	6.020
2044-45 (end of AMP11)	6.210
2049-50 (end of AMP12)	6.404

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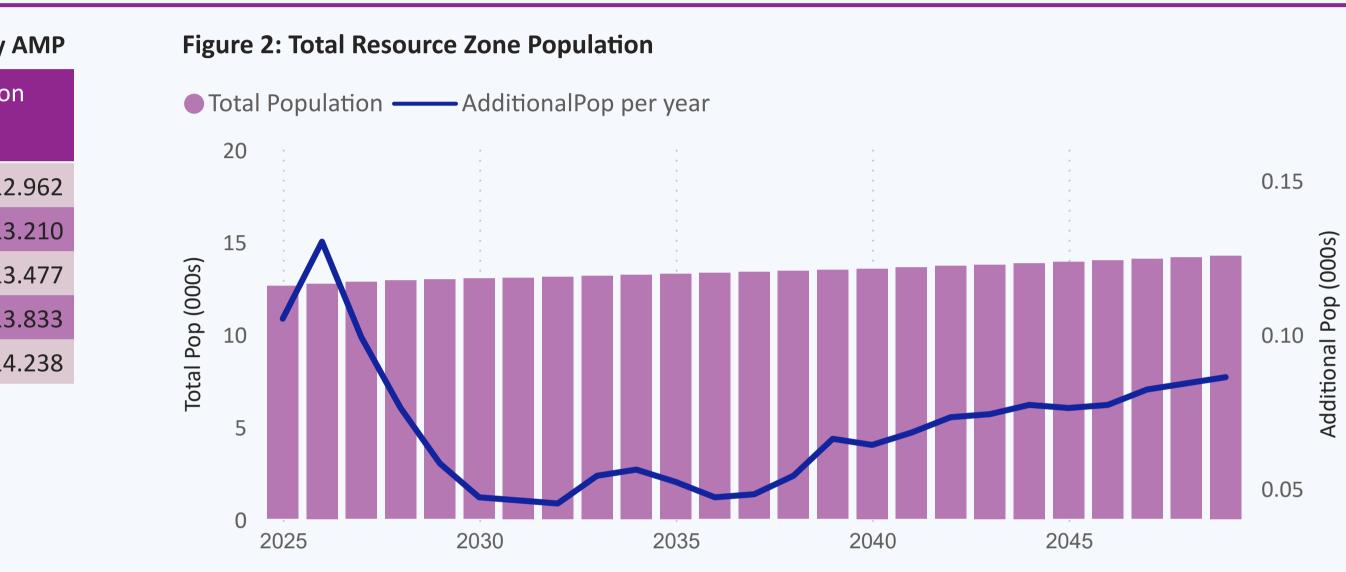
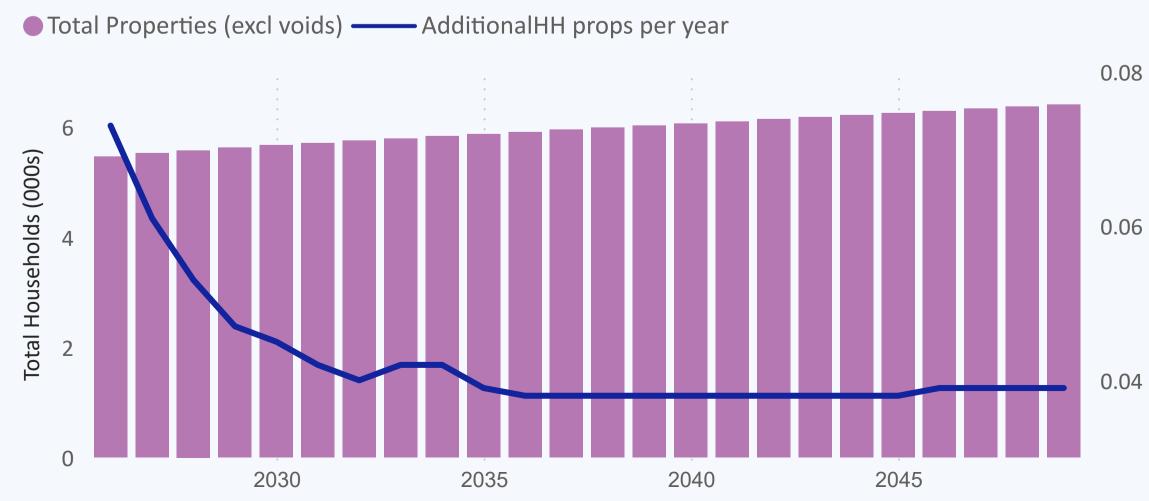
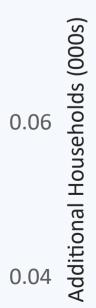


Figure 3: Total Resource Zone Properties (excl. voids)









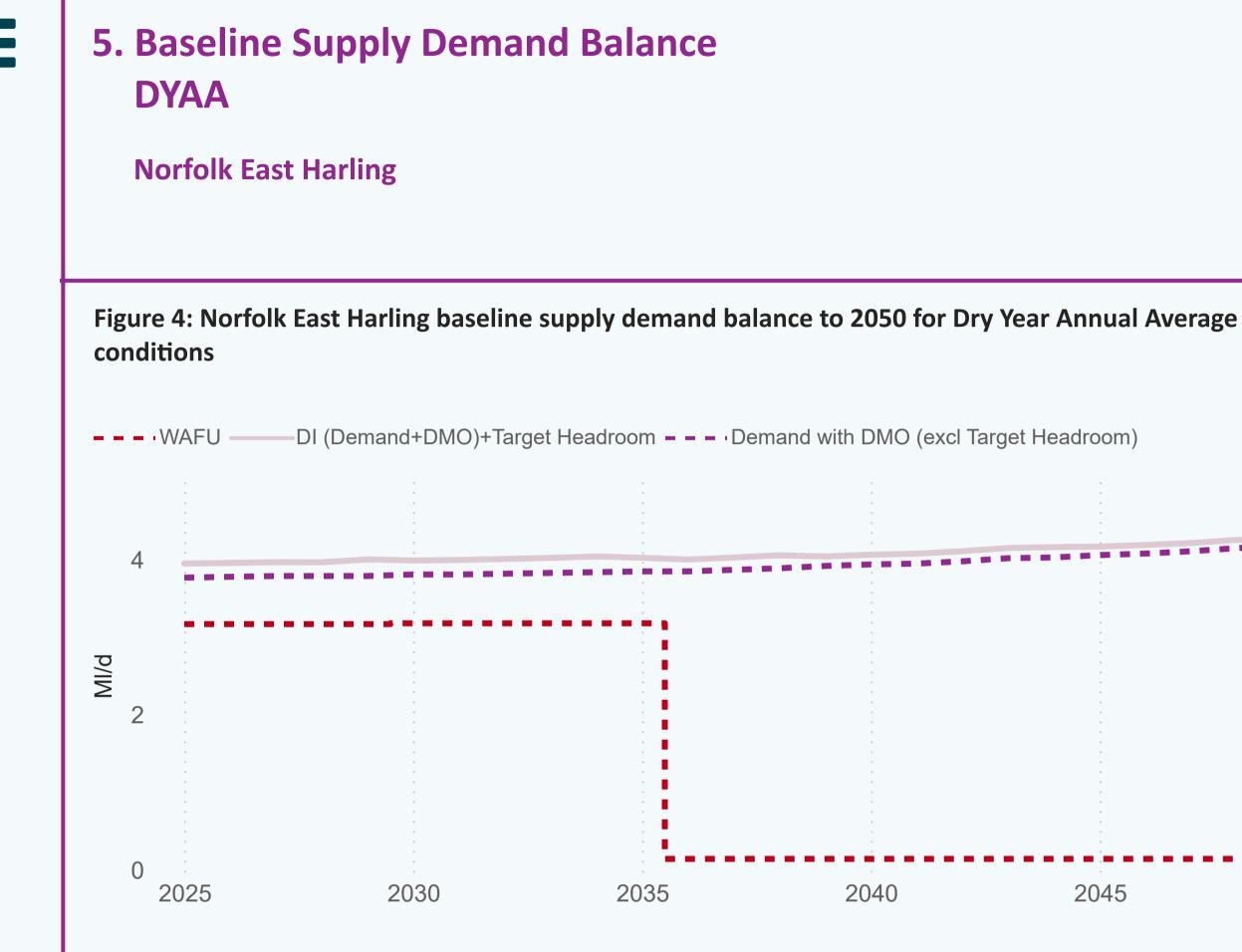


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	3.2	3.2	3.2	0.1	0.1	0.1
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	3.2	3.2	3.2	0.1	0.1	0.1
Distribution Input	3.8	3.8	3.8	3.9	4.0	4.2
Target Headroom	0.2	0.2	0.2	0.1	0.1	0.1
Supply Demand Balance	-0.8	-0.8	-0.9	-3.9	-4.0	-4.1





Table 5b: Baseline demand forecast (without preferred demand management options)

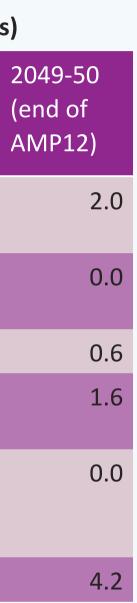
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	1.5	1.6	1.8	1.9	2.0
Water delivered unmeasured household	0.4	0.2	0.1	0.0	0.0
Total Leakage	0.6	0.6	0.6	0.6	0.6
Water delivered measured non-household	1.3	1.3	1.4	1.4	1.5
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	3.8	3.8	3.8	3.9	4.0

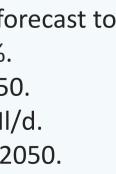
DYAA BL supply demand summary: Norfolk East Harling

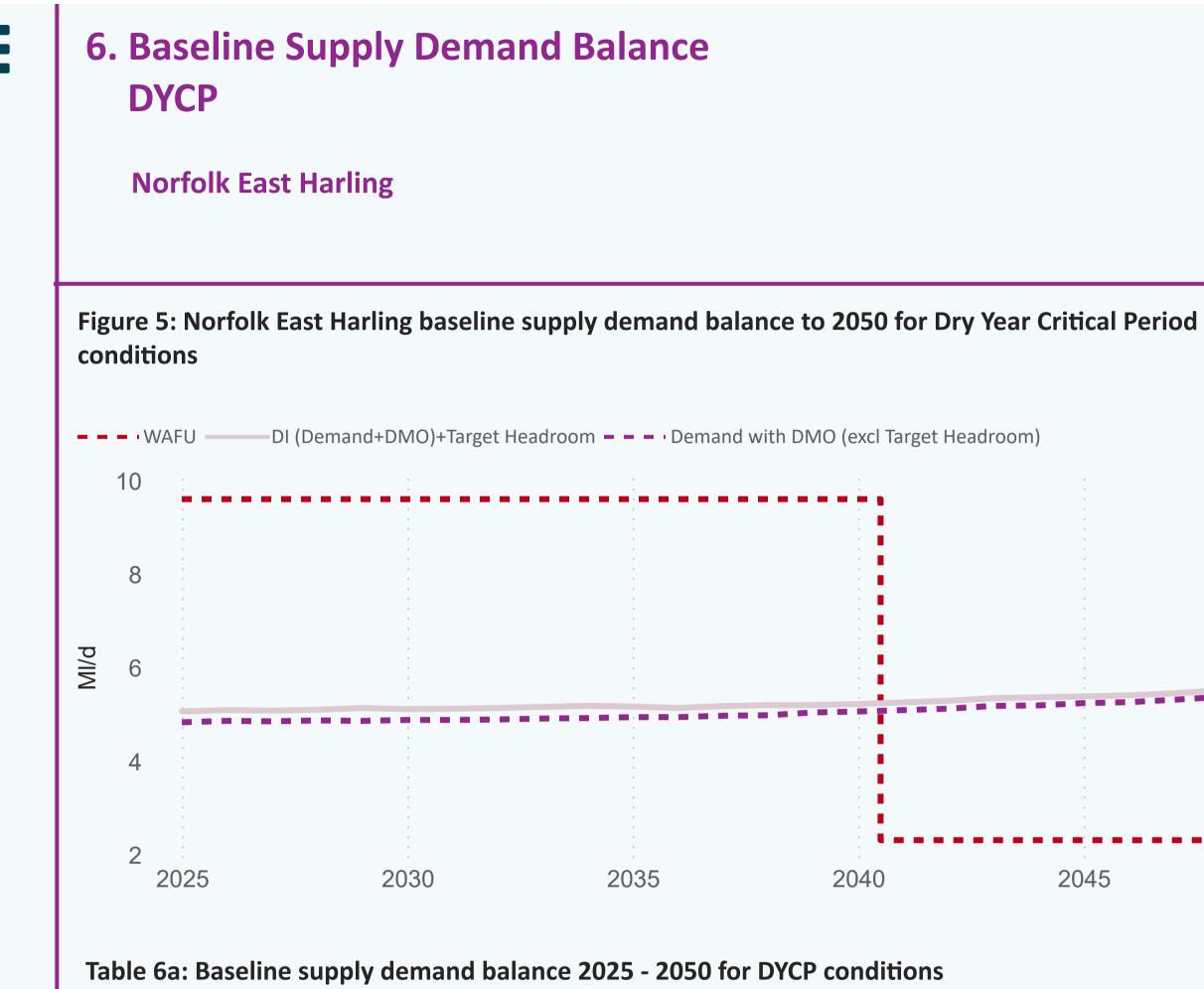
Baseline Supply Demand Balance: This zone is expected to go into deficit by 2025 (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 1.9 MI/d in 2025 to 2.0 MI/d in 2050, a percentage change of 9.2 %.
- Baseline Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.3 Ml/d to 1.6 Ml/d.
- Baseline Distribution Input: is expected to change from 3.8 MI/d to 4.2 MI/d by 2050.









	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	9.6	9.6	9.6	9.6	2.3	2.3
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	9.6	9.6	9.6	9.6	2.3	2.3
Distribution Input	4.8	4.9	4.9	5.1	5.2	5.4
Target Headroom	0.2	0.3	0.3	0.2	0.2	0.1
Supply Demand Balance	4.5	4.5	4.4	4.4	-3.1	-3.2







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

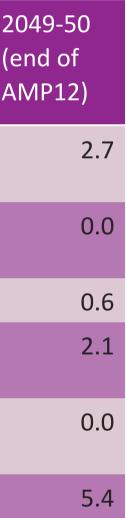
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 ((A
Water delivered measured household	2.0	2.2	2.4	2.5	2.6	
Water delivered unmeasured household	0.5	0.3	0.1	0.0	0.0	
Total Leakage	0.6	0.6	0.6	0.6	0.6	
Water delivered measured non-household	1.8	1.8	1.8	1.9	2.0	
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	4.8	4.9	4.9	5.1	5.2	

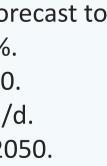
DYCP BL supply demand summary: Norfolk East Harling

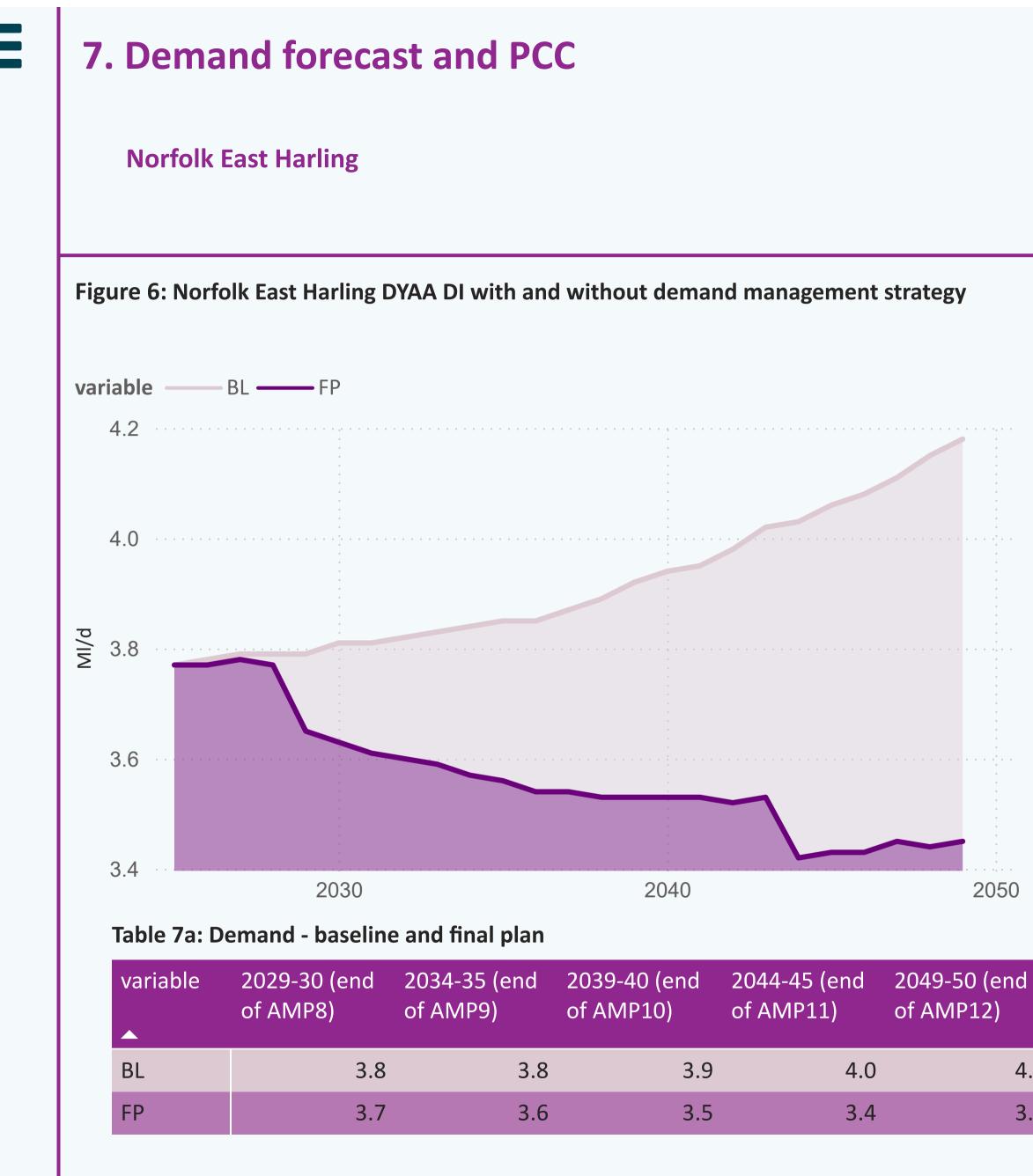
Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 2.5 MI/d in 2025 to 2.7 MI/d in 2050, a percentage change of 10.5 %.
- Baseline Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.6 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.8 Ml/d to 2.1 Ml/d.
- Baseline Distribution Input: is expected to change from 4.8 MI/d to 5.4 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).









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Demand Norfolk East Harling (see Table 7a)

Baseline demand is expected to increase from 3.8 (MI/d) in 2025 to 4.2 (MI/d) in 2050. With demand management options in place, demand is expected to be 3.5 (MI/d).

PCC Norfolk East Harling (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 130.8 (l/h/d) measured and 194.8 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 139.7 (I/h/d) in 2025/26. This is forecast to fall to 111.7 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

4.2 3.5

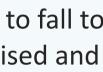
Table 7b: DMO strategy Final Plan

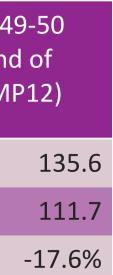
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	136.6	135.5	135.0	135.9	
FP demand forecast(DYAA)	128.1	121.9	115.8	113.5	
% change BL to FP	-6.2%	-10.1%	-14.3%	-16.5%	











8. Demand management options

Norfolk East Harling

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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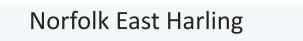
• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

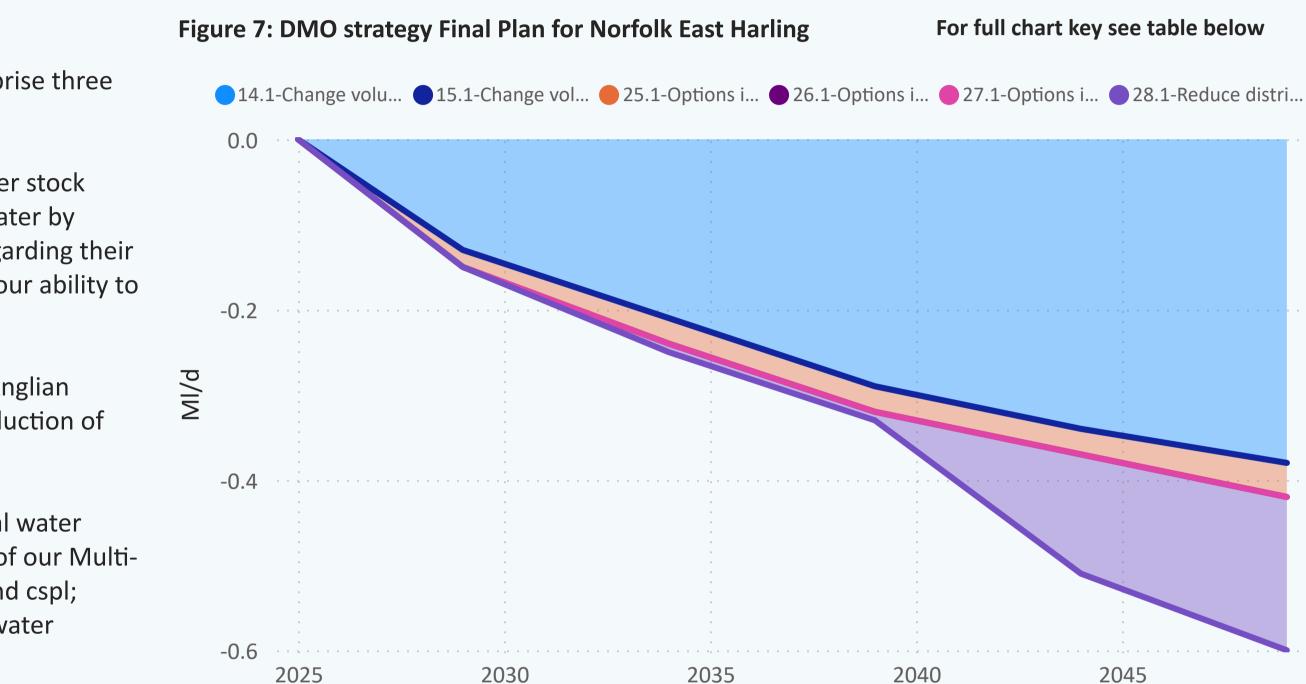
Table 8: DMO strategy Final Plan for Norfolk East Harling

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.1	-0.2	-0.3	-0.3	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	0.0	-0.1	



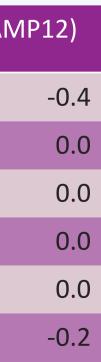
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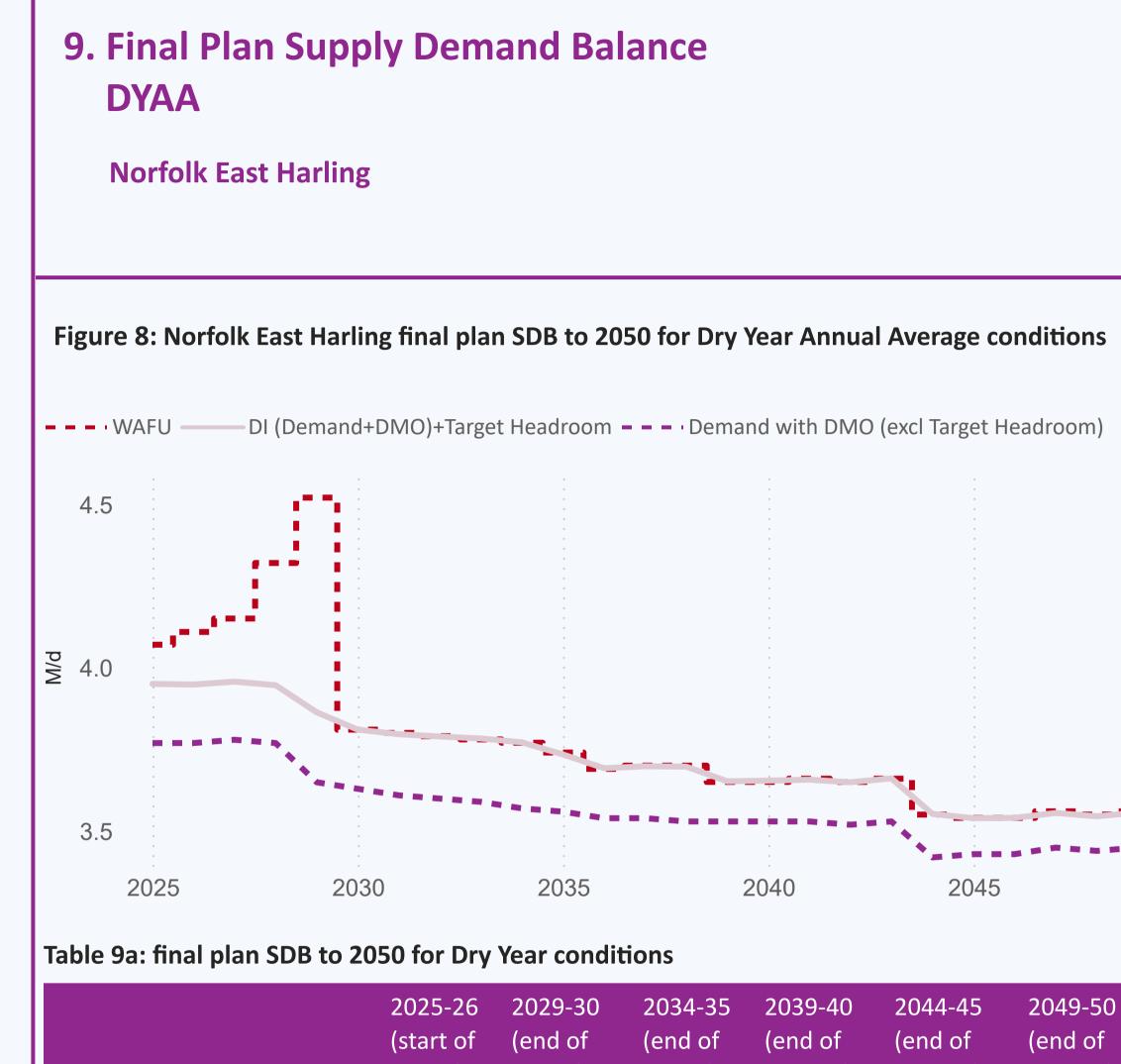






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	AMP8)	AMP8)	AMP9)	AMP10)	AMP11)	AMP12)
Water Available For Use	4.9	4.9	3.2	0.1	0.1	0.
Net Transfers	-0.8	-0.3	0.6	3.5	3.4	3
Total Water Available For Use	4.1	4.5	3.8	3.7	3.6	3.
Distribution Input	3.8	3.7	3.6	3.5	3.4	3
Target Headroom	0.2	0.2	0.2	0.1	0.1	0
Supply Demand Balance	0.1	0.7	0.0	0.0	0.0	0

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 Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management)
 options)

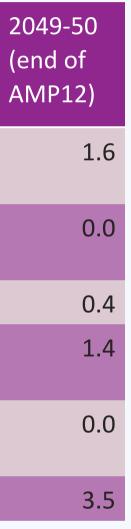
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	1.5	1.5	1.6	1.6	1.6
Water delivered unmeasured household	0.4	0.2	0.1	0.0	0.0
Total Leakage	0.6	0.6	0.5	0.5	0.4
Water delivered measured non- household	1.3	1.3	1.3	1.3	1.3
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	3.8	3.7	3.6	3.5	3.4

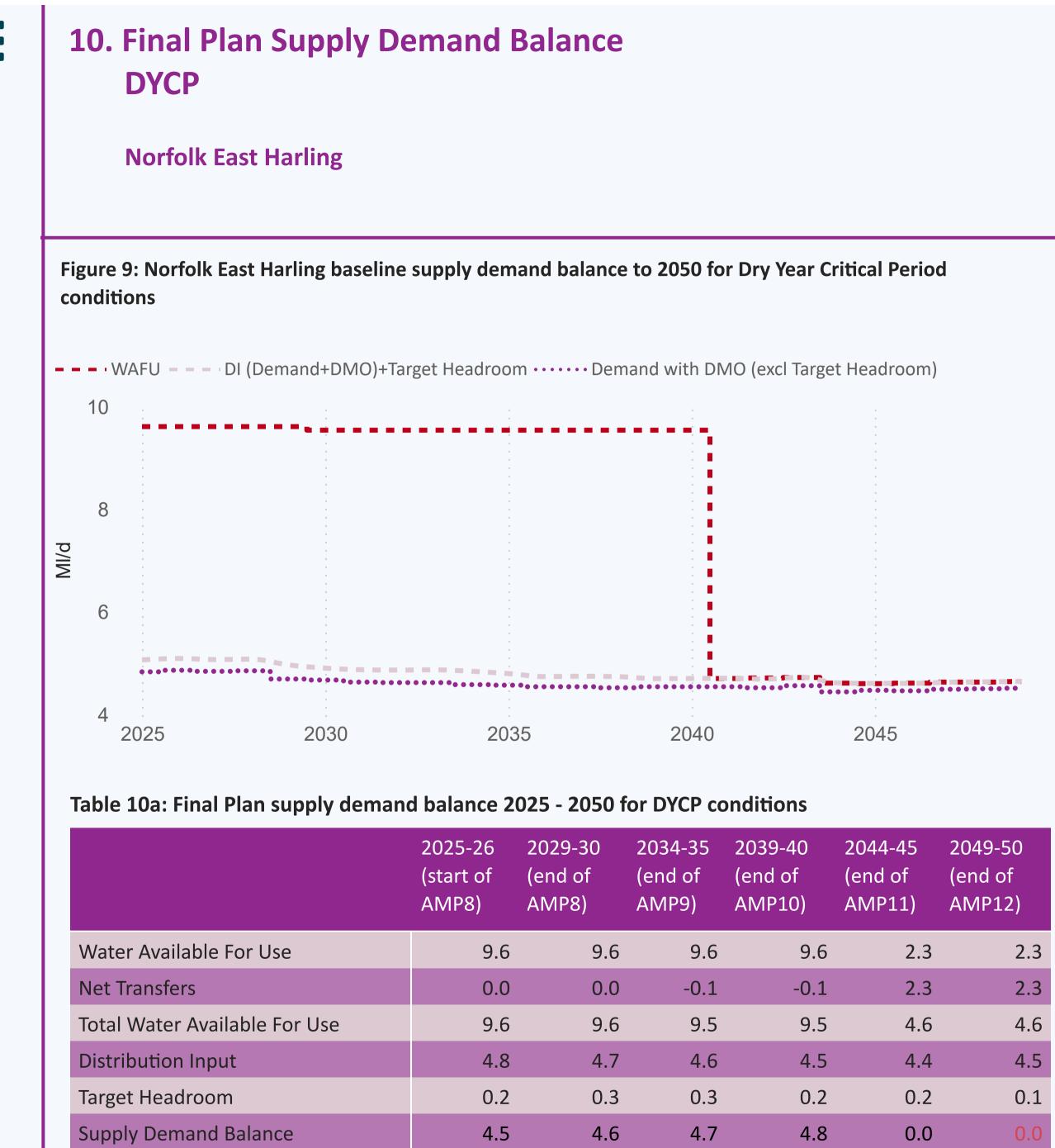
DYAA FP supply demand summary: Norfolk East Harling

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 1.9 MI/d in 2025 to 1.6 MI/d in 2050, a percentage change of -11.4 %.
- Final Plan Leakage is forecast to change from 0.6 Ml/d in 2025 to 0.4 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 1.3 Ml/d to 1.4 Ml/d.
- Final Plan Distribution Input is expected to change from 3.8 Ml/d to 3.5 Ml/d by 2050.







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Critical Period	Table 10

Ob: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

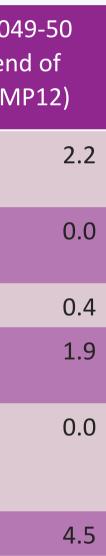
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (er AN
Water delivered measured household	2.0	2.0	2.1	2.2	2.2	
Water delivered unmeasured household	0.5	0.3	0.1	0.0	0.0	
Total Leakage	0.6	0.6	0.5	0.5	0.4	
Water delivered measured non-household	1.8	1.8	1.8	1.8	1.8	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	4.8	4.7	4.6	4.5	4.4	

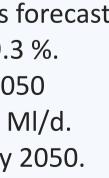
DYCP BL supply demand summary: Norfolk East Harling

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 2.5 MI/d in 2025 to 2.2 MI/d in 2050, a percentage change of -9.3 %.
- Final Plan Leakage: is forecast to change from 0.6 Ml/d in 2025 to 0.4 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 1.8 Ml/d to 1.9 Ml/d.
- Final Plan Distribution Input: is expected to change from 4.8 Ml/d to 4.5 Ml/d by 2050.







11. Supply Side Strategy

Norfolk East Harling

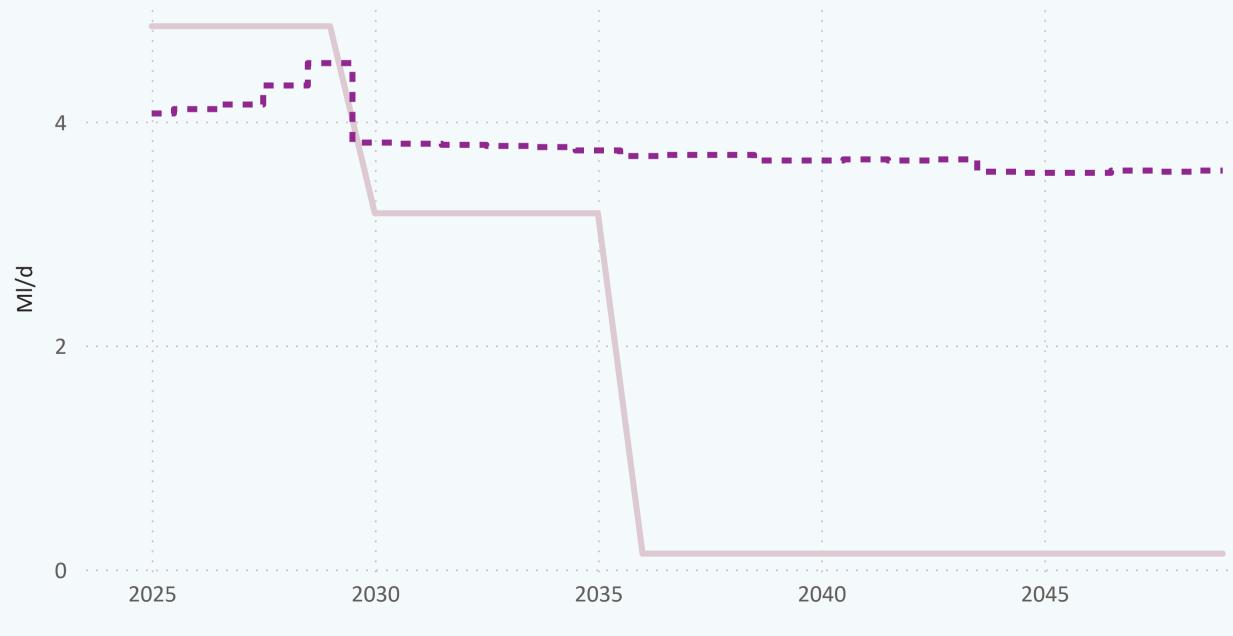
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Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	4.9	3.2	0.1	0.1	
WAFU - FP	4.5	3.8	3.7	3.6	

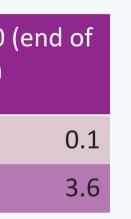
Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)

-WAFU - BL(adjusted for licence cap scenario 8 and 1:200 Drought)) - - - WAFU - FP







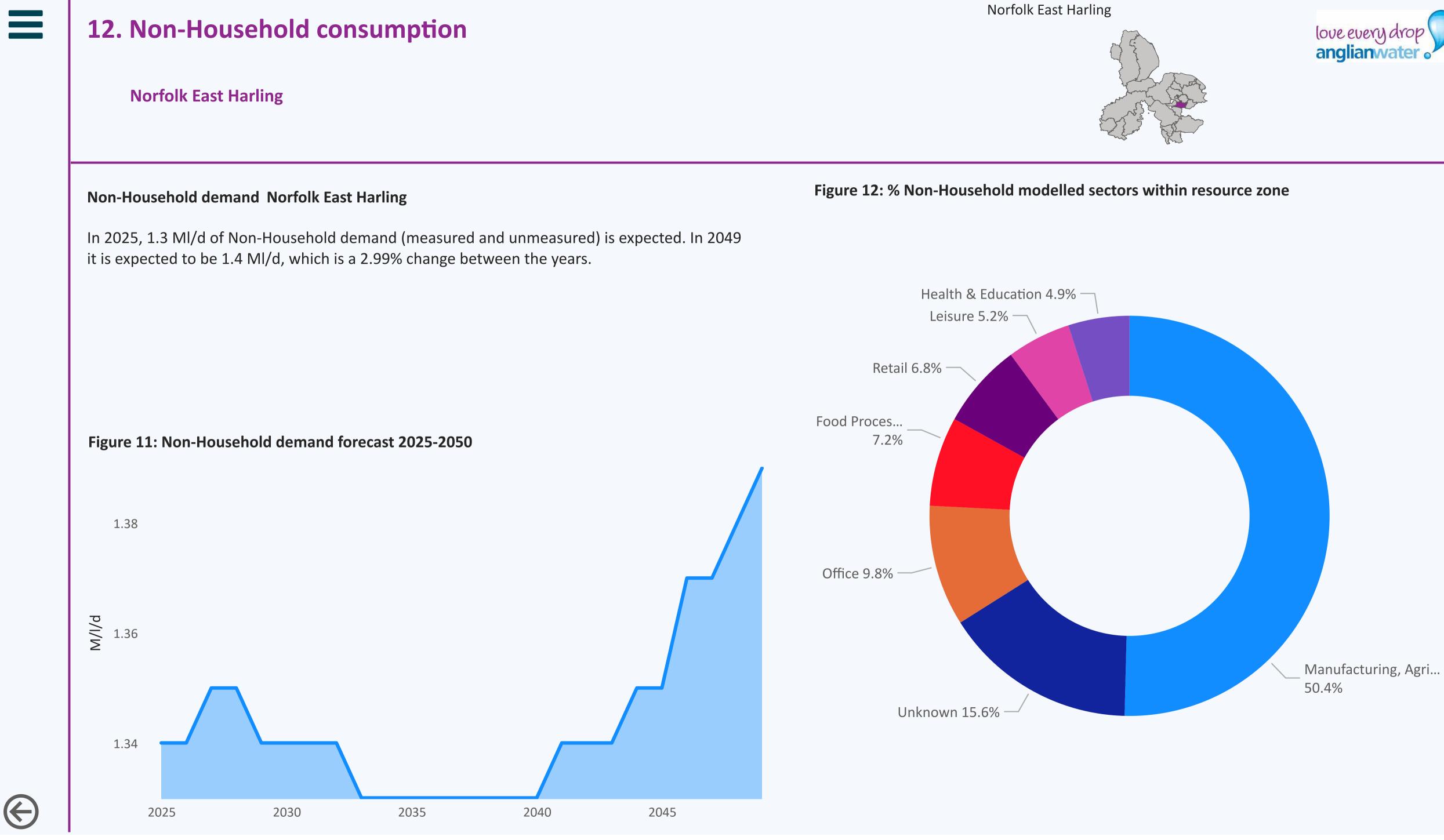


Supply side strategy options.

For details on the feasible options list for Norfolk East Harling WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options

Option ID	First Option Name
EE08	Adjustment to existing potable water export
LC10	Adjustment for Licence cap scenario 8
NEH3	Suffolk Thetford to Norfolk East Harling potable transfer (5 Ml/d)













3. Deployable Output summary DYAA

Norfolk Happisburgh

Resource Zone geography: Norfolk Happisburgh:

The Norfolk Happisburgh WRZ covers an area of 190 sq. km and sits along the Norfolk coastline.

It should be noted that this WRZ has no actual supply sources of its own.

Baseline deployable output (including 1:500 drought): 0.0 Ml/d

Deployable output reductions

Restoring sustainable abstraction (recent actual average): 0.0 MI/d

Reductions to achieve environmental destination (BAU+): 0.0 Ml/d.

Climate change: 0.0 Ml/d by 2050.

Baseline deployable output reduces by a total of 0.0 Ml/d by 2050.

The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

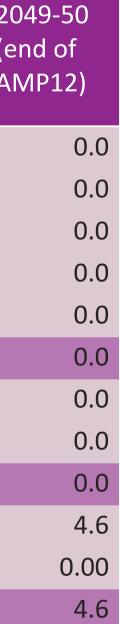


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Table 3: supply characteristics (all values are MI/d)

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2((e Al
DO pre forecast changes	0.0	0.0	0.0	0.0	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	0.0	0.0	0.0	0.0	
DO reductions for Environmental Destination	0.0	0.0	0.0	0.0	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	0.0	0.0	0.0	0.0	
Raw water losses (-ve)	0.0	0.0	0.0	0.0	
Outage Allowance (-ve)	0.0	0.0	0.0	0.0	
WAFU (own sources)	0.0	0.0	0.0	0.0	
Net Transfers	4.1	4.2	4.1	4.3	
Other benefits	0.00	0.00	0.00	0.00	
Total Water Available for Use	4.1	4.2	4.1	4.3	





4. Population & Housing

Norfolk Happisburgh

Over the WRMP period, population in **Norfolk** Happisburgh is set to increase from 17131 in 2025 to **18738** in 2049-50 - this is an increase of 9.4 % over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	17
2034-35 (end of AMP9)	17
2039-40 (end of AMP10)	17
2044-45 (end of AMP11)	18
2049-50 (end of AMP12)	18

Over the WRMP period, property numbers in Norfolk Happisburgh are set to increase from **8691** in 2025 to **9896** in 2049-50 - this is an increase of **13.9 %** over the 25 years.

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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)
2029-30 (end of AMP8)	8.876
2034-35 (end of AMP9)	9.070
2039-40 (end of AMP10)	9.359
2044-45 (end of AMP11)	9.646
2049-50 (end of AMP12)	9.896

Norfolk Happisburgh

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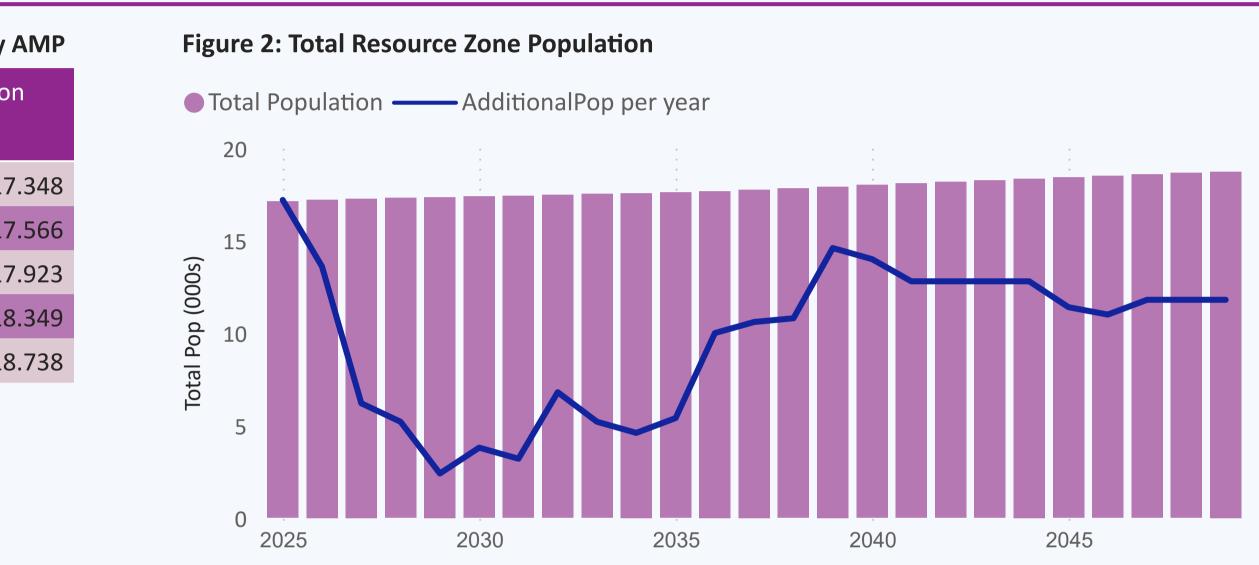
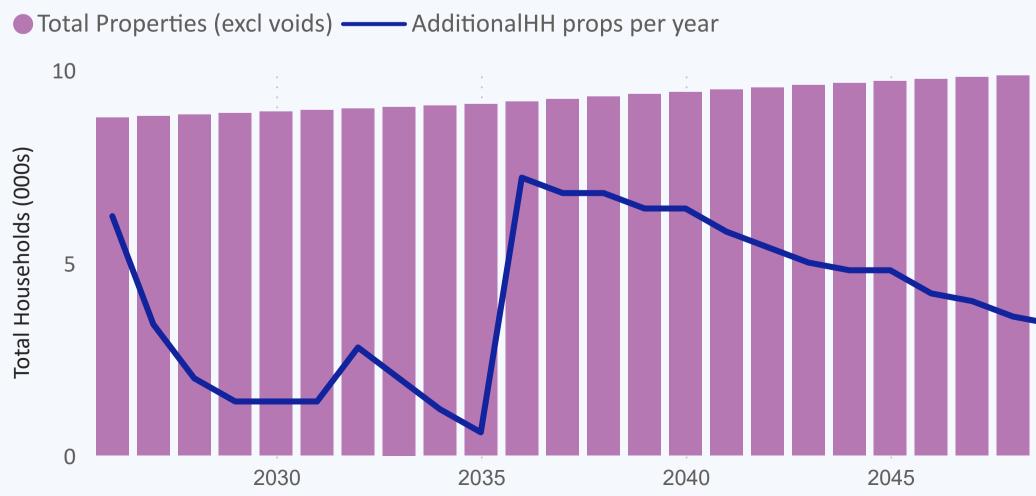


Figure 3: Total Resource Zone Properties (excl. voids)

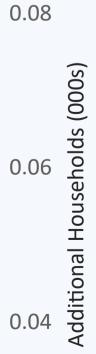




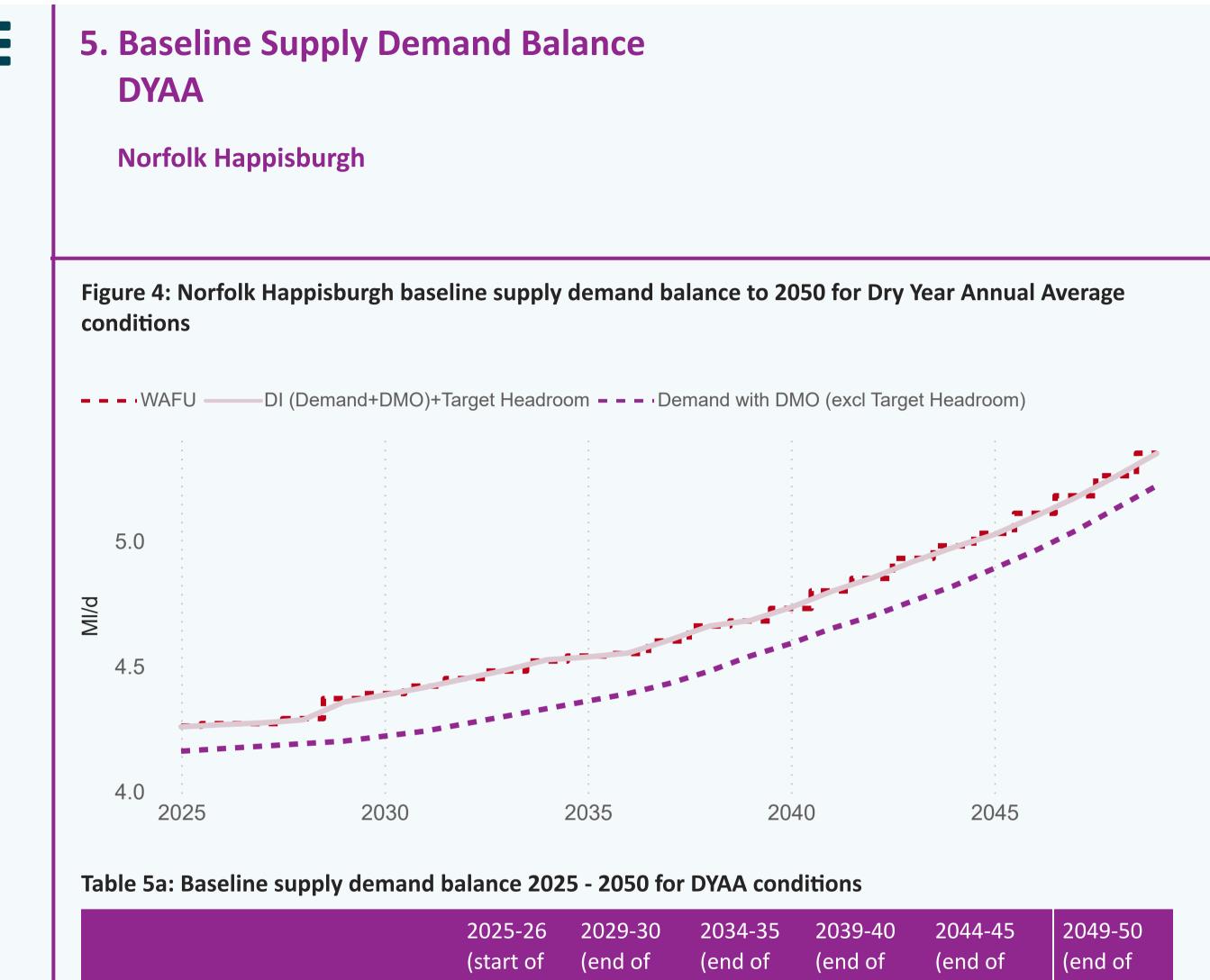












	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	0.0	0.0	0.0	0.0	0.0	0.0
Net Transfers	4.3	4.4	4.5	4.7	5.0	5.4
Total Water Available For Use	4.3	4.4	4.5	4.7	5.0	5.4
Distribution Input	4.2	4.2	4.3	4.5	4.8	5.2
Target Headroom	0.1	0.2	0.2	0.1	0.2	0.1
Supply Demand Balance	0.0	0.0	0.0	0.0	0.0	0.0

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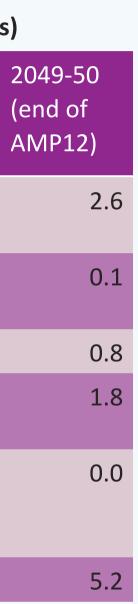
Table 5b: Baseline demand forecast (without preferred demand management options)

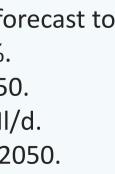
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	2.1	2.1	2.2	2.4	2.5
Water delivered unmeasured household	0.4	0.3	0.2	0.1	0.1
Total Leakage	0.8	0.8	0.8	0.8	0.8
Water delivered measured non-household	0.9	1.0	1.1	1.2	1.5
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	4.2	4.2	4.3	4.5	4.8

DYAA BL supply demand summary: Norfolk Happisburgh

Baseline Supply Demand Balance: This zone is not expected to go into deficit (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 2.4 MI/d in 2025 to 2.6 MI/d in 2050, a percentage change of 7.4 %.
- Baseline Leakage: is forecast to change from 0.8 Ml/d in 2025 to 0.8 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 0.9 Ml/d to 1.8 Ml/d.
- Baseline Distribution Input: is expected to change from 4.2 MI/d to 5.2 MI/d by 2050.







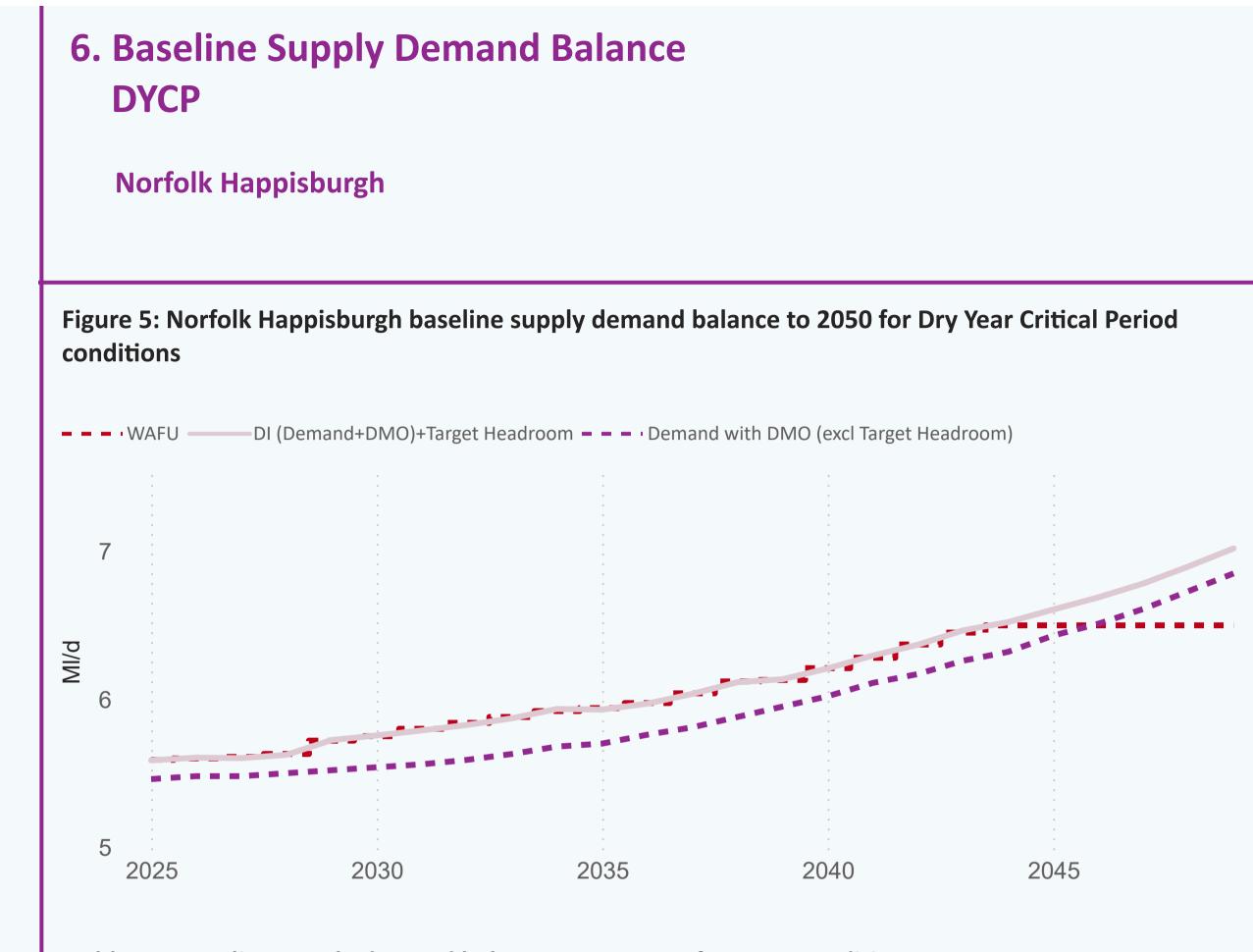


Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	0.0	0.0	0.0	0.0	0.0	0.0
Net Transfers	5.6	5.7	5.9	6.1	6.5	6.5
Total Water Available For Use	5.6	5.7	5.9	6.1	6.5	6.5
Distribution Input	5.5	5.5	5.7	6.0	6.3	6.9
Target Headroom	0.1	0.2	0.3	0.2	0.2	0.2
Supply Demand Balance	0.0	0.0	0.0	0.0	0.0	-0.5







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

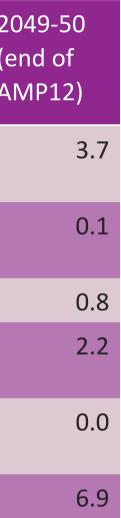
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
Water delivered measured household	2.9	3.1	3.2	3.4	3.6	
Water delivered unmeasured household	0.6	0.5	0.3	0.2	0.1	
Total Leakage	0.8	0.8	0.8	0.8	0.8	
Water delivered measured non-household	1.1	1.2	1.3	1.5	1.8	
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	5.5	5.5	5.7	6.0	6.3	

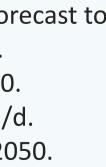
DYCP BL supply demand summary: Norfolk Happisburgh

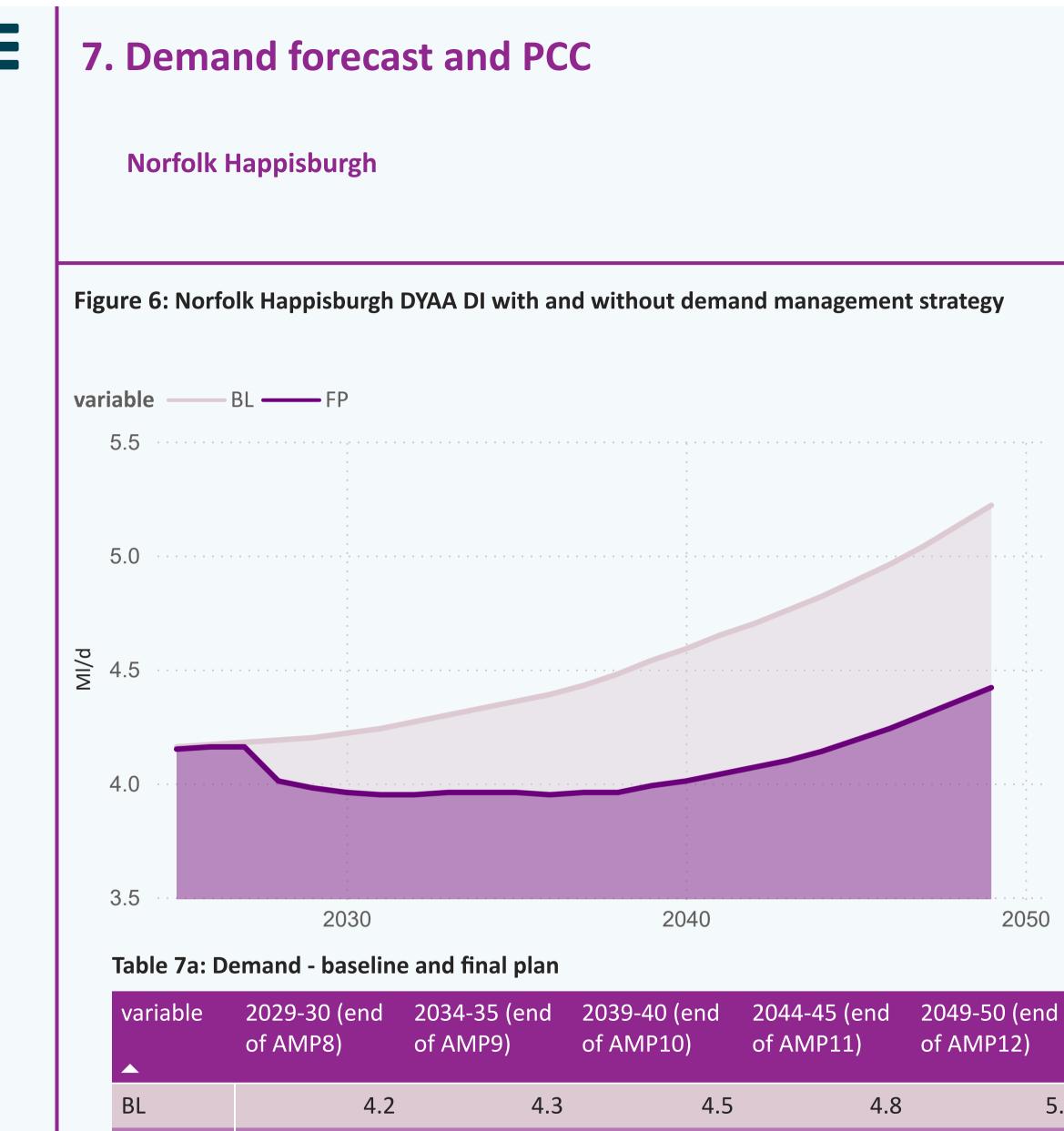
Baseline Supply Demand balance: This zone will go into deficit immediately

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 3.5 MI/d in 2025 to 3.8 MI/d in 2050, a percentage change of 8.5 %.
- Baseline Leakage: is forecast to change from 0.8 Ml/d in 2025 to 0.8 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 1.1 Ml/d to 2.2 Ml/d.
- Baseline Distribution Input: is expected to change from 5.5 Ml/d to 6.9 Ml/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).







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Demand Norfolk Happisburgh (see Table 7a)

Baseline demand is expected to increase from 4.2 (MI/d) in 2025 to 5.2 (MI/d) in 2050. With demand management options in place, demand is expected to be 4.4 (MI/d).

PCC Norfolk Happisburgh (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 125.6 (l/h/d) measured and 223.9 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 134.8 (I/h/d) in 2025/26. This is forecast to fall to 106.7 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

5.2 4.4

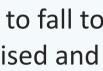
Table 7b: DMO strategy Final Plan

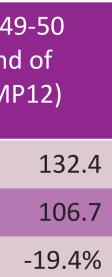
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	132.6	132.1	132.8	133.0	
FP demand forecast(DYAA)	123.4	118.4	113.3	109.5	
% change BL to FP	-7.0%	-10.3%	-14.7%	-17.6%	











8. Demand management options

Norfolk Happisburgh

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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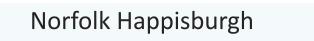
• Our aim is to reduce leakage by more than 45MI/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

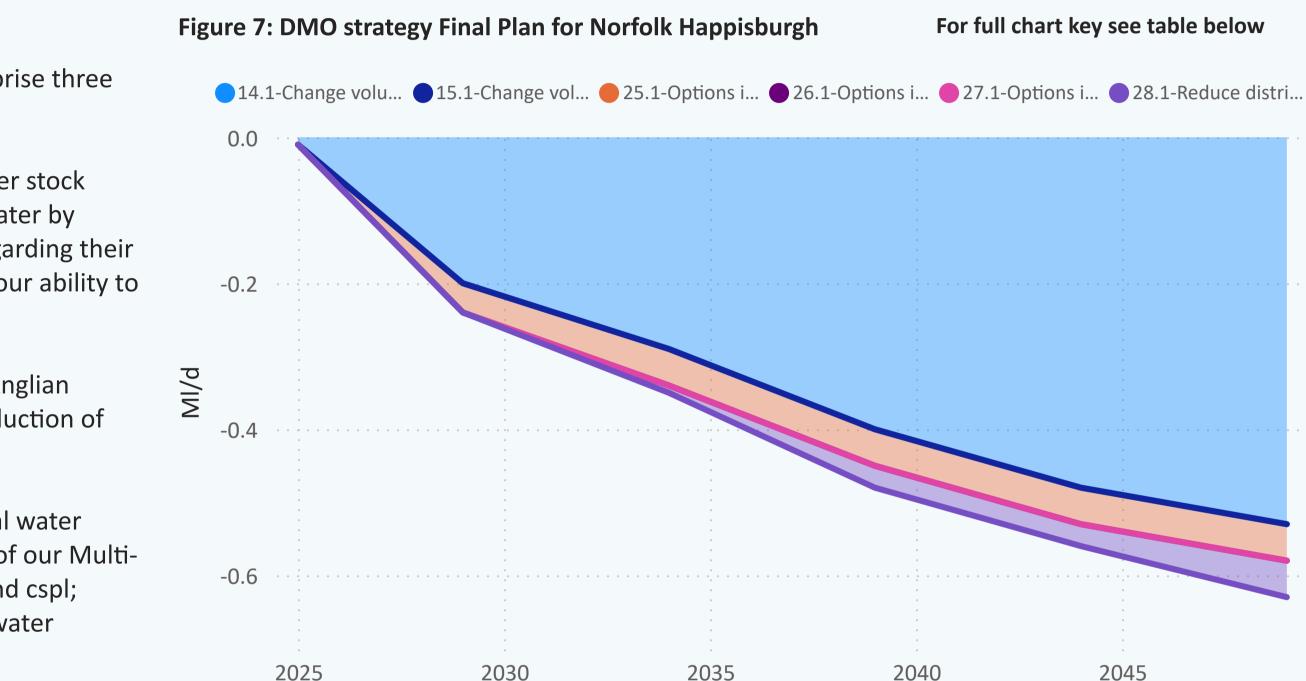
Table 8: DMO strategy Final Plan for Norfolk Happisburgh

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.2	-0.3	-0.4	-0.5	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	0.0	-0.1	-0.1	-0.1	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	0.0	0.0	



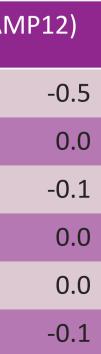
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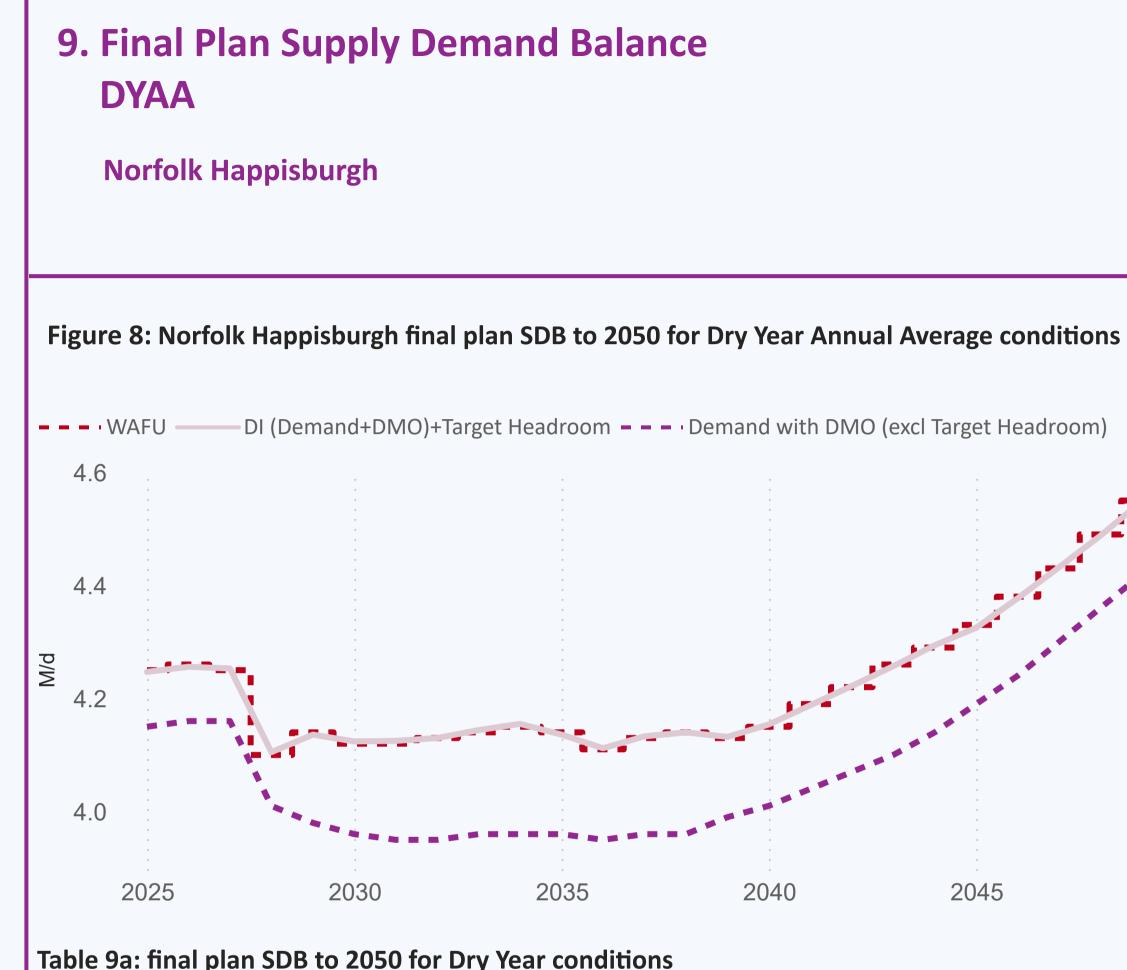


Table 9a: final plan SDB to 2050 for Dry Year conditions

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	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	0.0	0.0	0.0	0.0	0.0	0.0
Net Transfers	4.3	4.1	4.2	4.1	4.3	4.6
Total Water Available For Use	4.3	4.1	4.2	4.1	4.3	4.6
Distribution Input	4.2	4.0	4.0	4.0	4.1	4.4
Target Headroom	0.1	0.2	0.2	0.1	0.2	0.1
Supply Demand Balance	0.0	0.0	0.0	0.0	0.0	0.0

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Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)

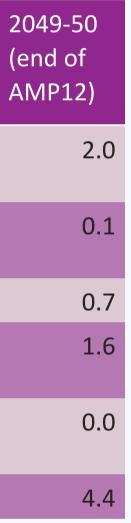
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	2.0	1.9	2.0	2.0	2.0
Water delivered unmeasured household	0.4	0.3	0.2	0.1	0.1
Total Leakage	0.8	0.8	0.7	0.7	0.7
Water delivered measured non- household	0.9	1.0	1.0	1.1	1.3
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	4.2	4.0	4.0	4.0	4.1

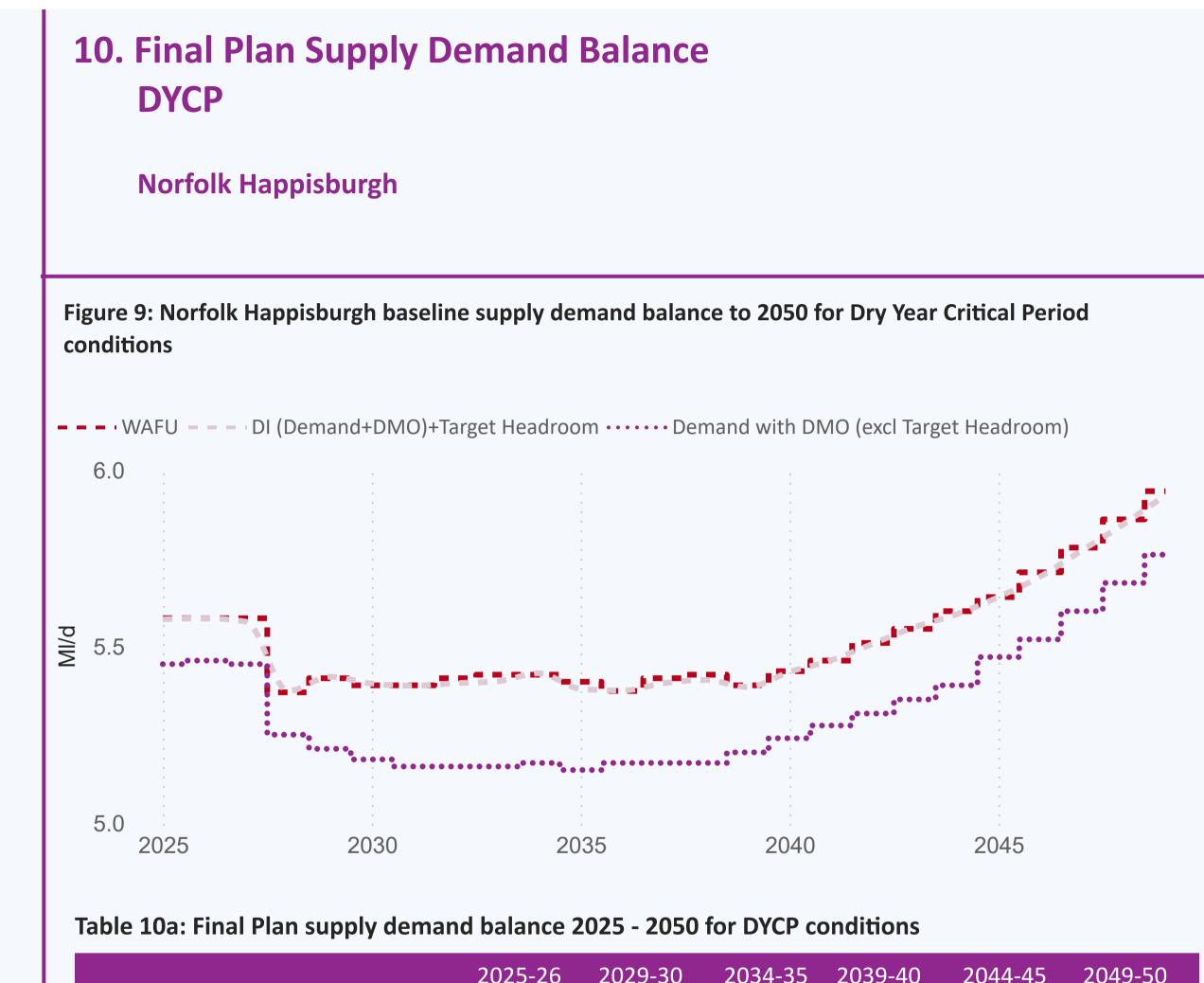
DYAA FP supply demand summary: Norfolk Happisburgh

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 2.4 MI/d in 2025 to 2.1 MI/d in 2050, a percentage change of -14.0 %.
- Final Plan Leakage is forecast to change from 0.8 Ml/d in 2025 to 0.7 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 0.9 Ml/d to 1.6 Ml/d.
- Final Plan Distribution Input is expected to change from 4.2 Ml/d to 4.4 Ml/d by 2050.







	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	0.0	0.0	0.0	0.0	0.0	0.0
Net Transfers	5.6	5.4	5.4	5.4	5.6	5.9
Total Water Available For Use	5.6	5.4	5.4	5.4	5.6	5.9
Distribution Input	5.5	5.2	5.2	5.2	5.4	5.8
Target Headroom	0.1	0.2	0.3	0.2	0.2	0.2
Supply Demand Balance	0.0	0.0	0.0	0.0	0.0	0.0





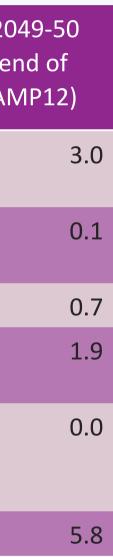
Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

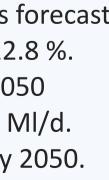
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (ei AN
Water delivered measured household	2.9	2.8	2.8	2.9	2.9	
Water delivered unmeasured household	0.6	0.5	0.3	0.2	0.1	
Total Leakage	0.8	0.8	0.7	0.7	0.7	
Water delivered measured non-household	1.1	1.2	1.2	1.4	1.6	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	5.5	5.2	5.2	5.2	5.4	

DYCP BL supply demand summary: Norfolk Happisburgh

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 3.5 Ml/d in 2025 to 3.1 Ml/d in 2050, a percentage change of -12.8 %.
- Final Plan Leakage: is forecast to change from 0.8 Ml/d in 2025 to 0.7 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 1.1 Ml/d to 1.9 Ml/d.
- Final Plan Distribution Input: is expected to change from 5.5 Ml/d to 5.8 Ml/d by 2050.





11. Supply Side Strategy

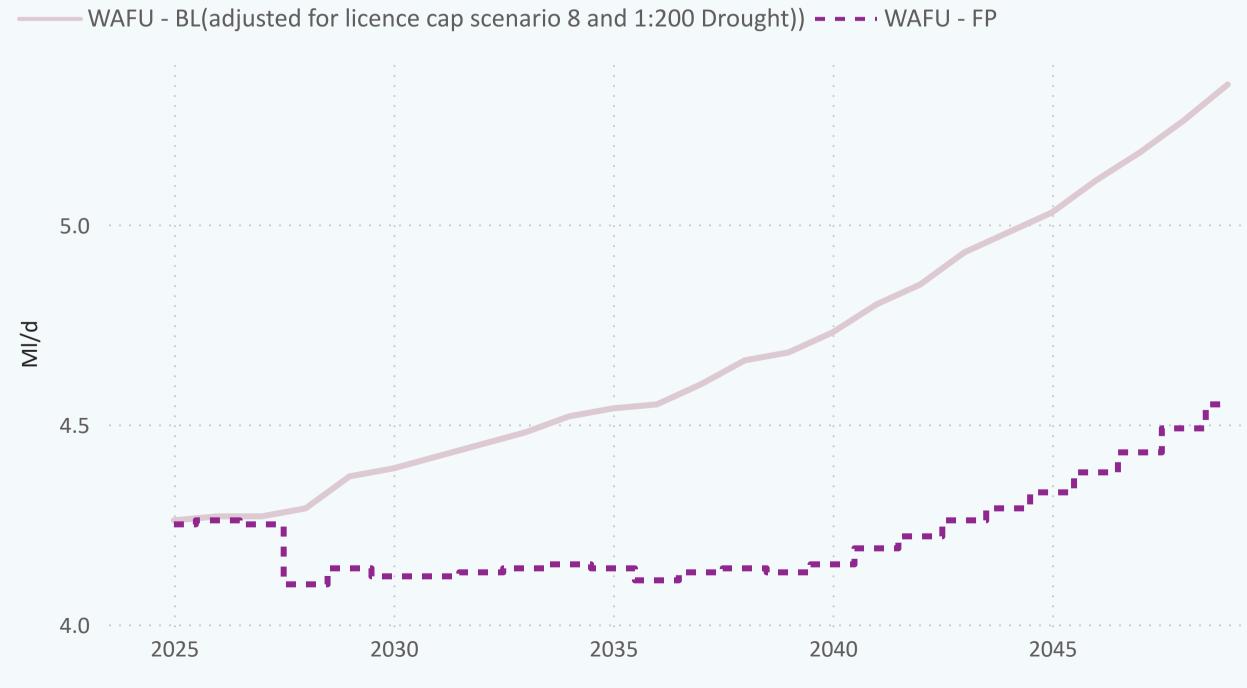
Norfolk Happisburgh

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Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	4.4	4.5	4.7	5.0	
WAFU - FP	4.1	4.2	4.1	4.3	

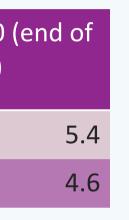
Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)



Norfolk Happisburgh



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Supply side strategy options.

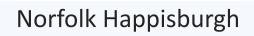
For details on the feasible options list for Norfolk Happisburgh WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options

Option ID	First Option Name
EE09	Adjustment to existing potable water export
EI09	Adjustment to existing potable water import



	12. Non-Ho	ousehold co	nsumption		
	Norfolk Ha	appisburgh			
	Non-Household d	lemand Norfolk Ha	opisburgh		
		of Non-Household of Non-Household of Non-Household of a second se			-
	Figure 11: Non-Ho	ousehold demand f	orecast 2025-2050		
	1.4				
	P/I/W 1.2				
	1.0				
\bigotimes	2025	2030	2035	2040	2045

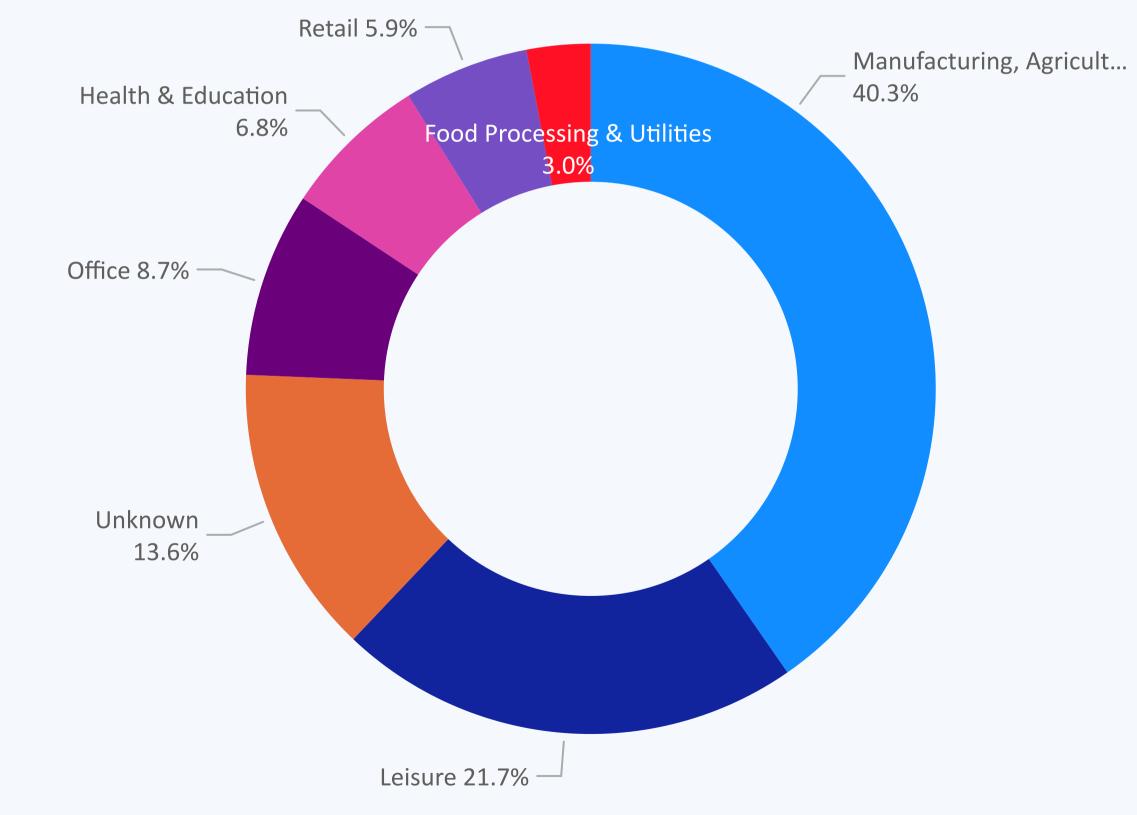


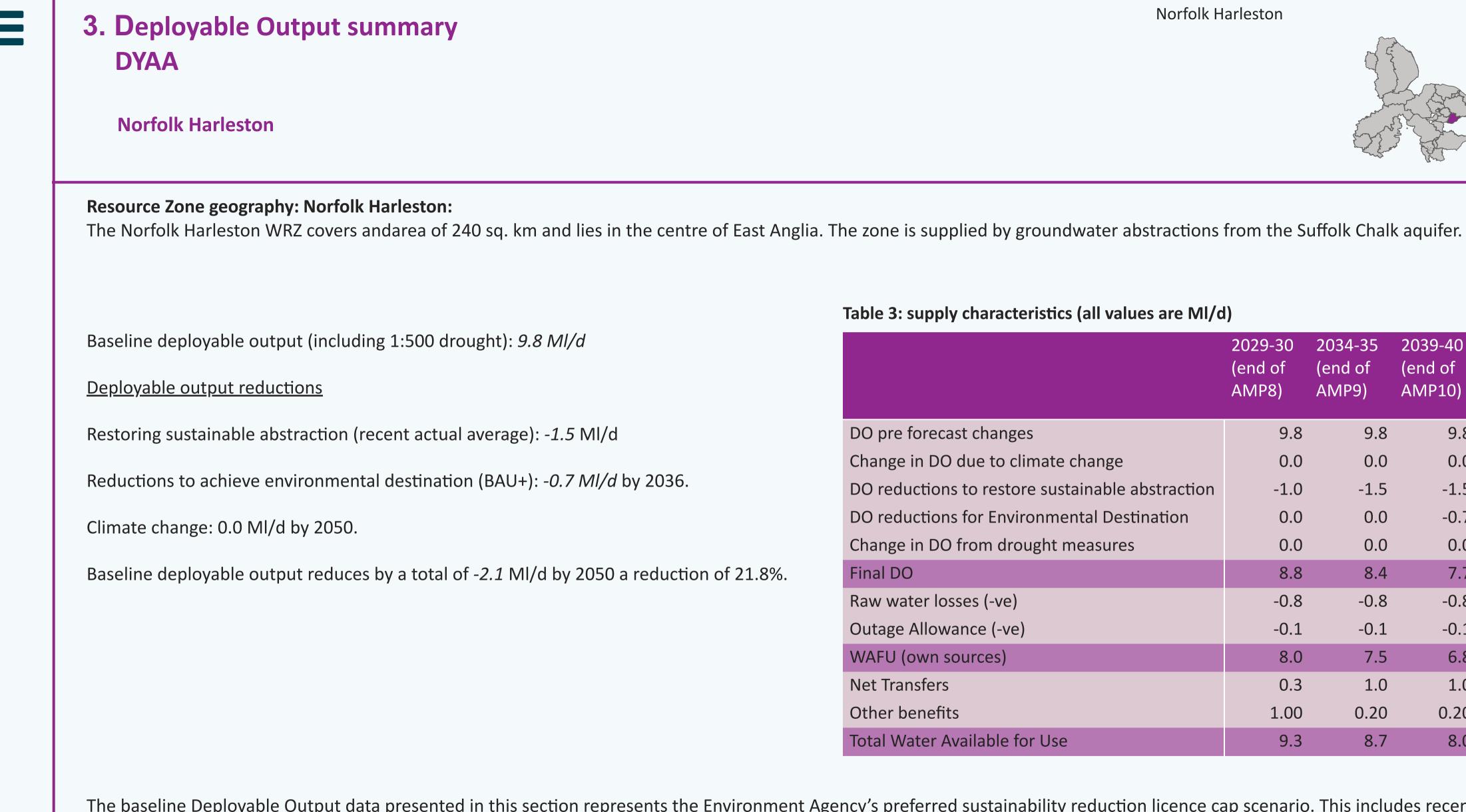






In 2049





The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Norfolk Harleston

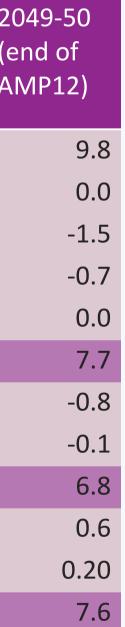


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	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
DO pre forecast changes	9.8	9.8	9.8	9.8	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-1.0	-1.5	-1.5	-1.5	
OO reductions for Environmental Destination	0.0	0.0	-0.7	-0.7	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
inal DO	8.8	8.4	7.7	7.7	
Raw water losses (-ve)	-0.8	-0.8	-0.8	-0.8	
Outage Allowance (-ve)	-0.1	-0.1	-0.1	-0.1	
WAFU (own sources)	8.0	7.5	6.8	6.8	
Net Transfers	0.3	1.0	1.0	0.8	
Other benefits	1.00	0.20	0.20	0.20	
Total Water Available for Use	9.3	8.7	8.0	7.8	

Table 3: supply characteristics (all values are MI/d)





4. Population & Housing

Norfolk Harleston

Over the WRMP period, population in **Norfolk** Harleston is set to increase from 37830 in 2025 to **42721** in 2049-50 - this is an increase of **12.9 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	38
2034-35 (end of AMP9)	39
2039-40 (end of AMP10)	40
2044-45 (end of AMP11)	41
2049-50 (end of AMP12)	42

Over the WRMP period, property numbers in Norfolk Harleston are set to increase from **16401** in 2025 to **19374** in 2049-50 - this is an increase of **18.1 %** over the 25 years.

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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)
2029-30 (end of AMP8)	17.092
2034-35 (end of AMP9)	17.613
2039-40 (end of AMP10)	18.146
2044-45 (end of AMP11)	18.735
2049-50 (end of AMP12)	19.374

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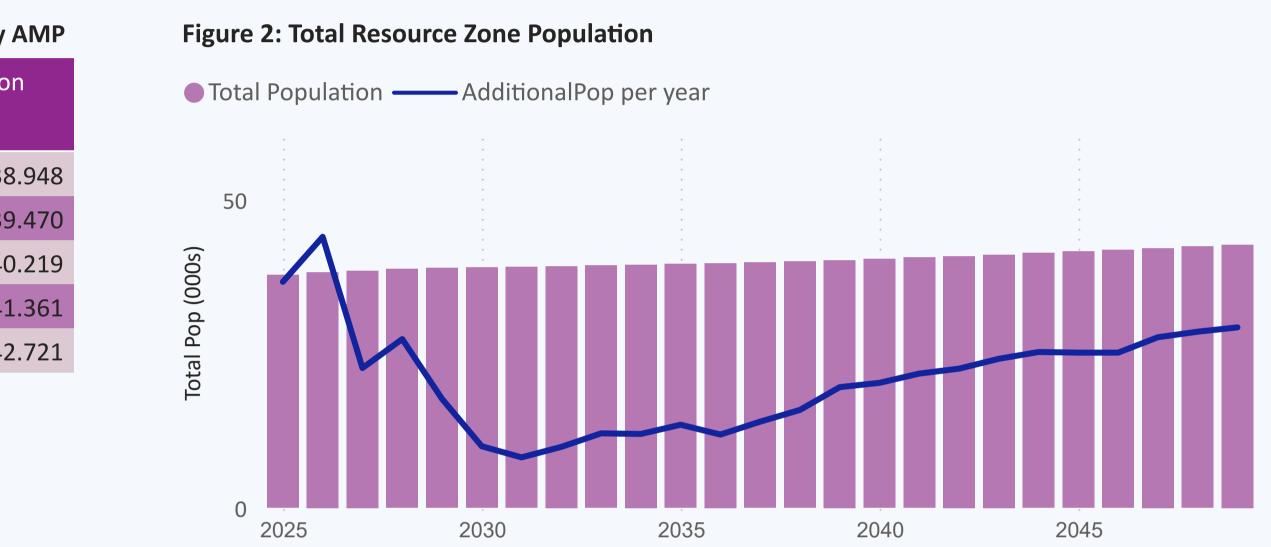
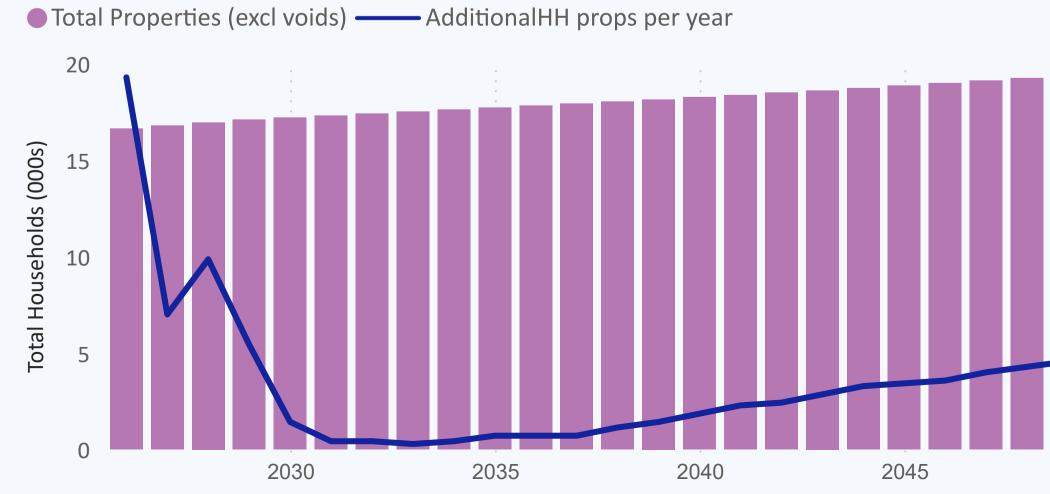


Figure 3: Total Resource Zone Properties (excl. voids)



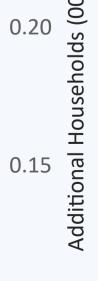






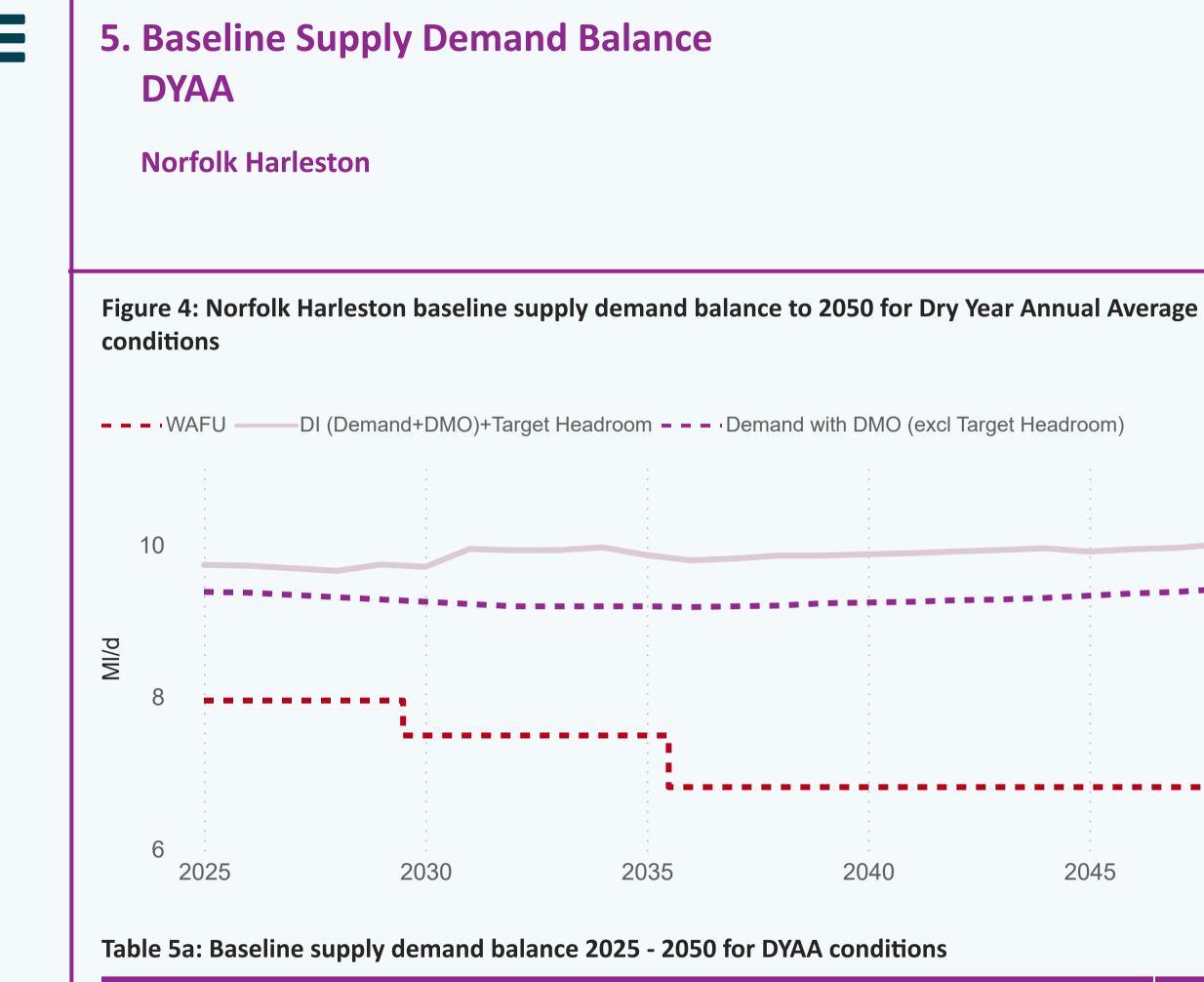






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	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	8.0	8.0	7.5	6.8	6.8	6.8
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	8.0	8.0	7.5	6.8	6.8	6.8
Distribution Input	9.4	9.3	9.2	9.2	9.3	9.5
Target Headroom	0.4	0.5	0.8	0.6	0.7	0.6
Supply Demand Balance	-1.8	-1.8	-2.5	-3.0	-3.1	-3.2

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Table 5b: Baseline demand forecast (without preferred demand management options)

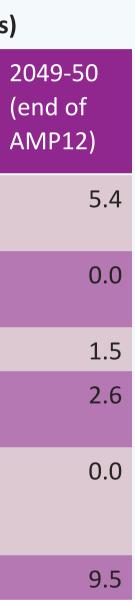
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	4.2	4.5	4.7	5.0	5.2
Water delivered unmeasured household	0.7	0.4	0.2	0.0	0.0
Total Leakage	1.5	1.5	1.5	1.5	1.5
Water delivered measured non-household	3.0	2.9	2.8	2.7	2.6
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	9.4	9.3	9.2	9.2	9.3

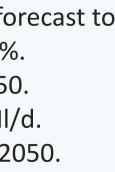
DYAA BL supply demand summary: Norfolk Harleston

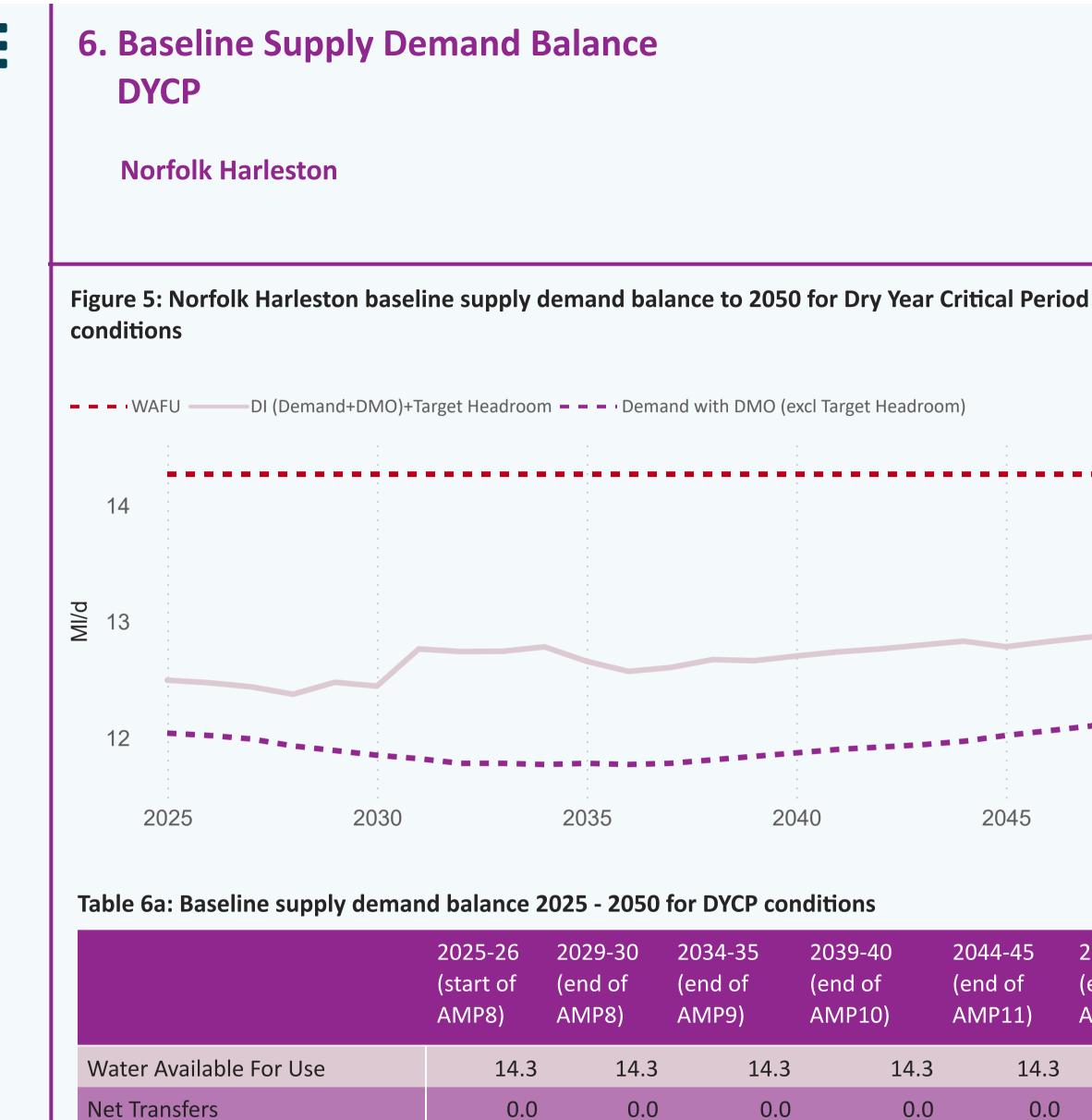
Baseline Supply Demand Balance: This zone will go into deficit immediately (under the preferred baseline scenario - as described in section 3.3).

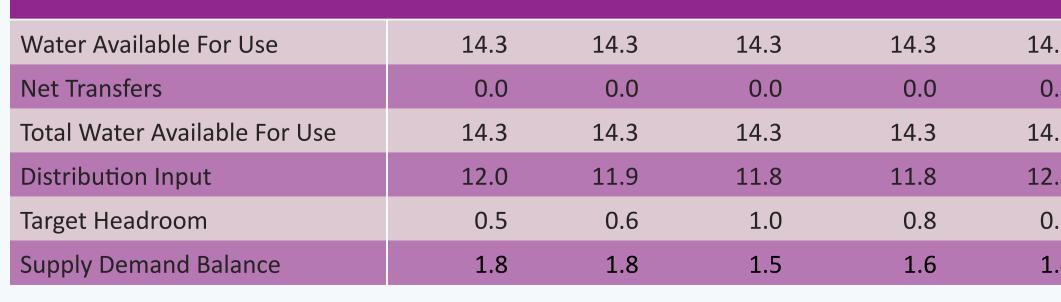
- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 4.9 MI/d in 2025 to 5.4 MI/d in 2050, a percentage change of 10.9 %.
- Baseline Leakage: is forecast to change from 1.5 Ml/d in 2025 to 1.5 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 3.0 Ml/d to 2.6 Ml/d.
- Baseline Distribution Input: is expected to change from 9.4 MI/d to 9.5 MI/d by 2050.











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Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 2 (end of (AMP11) 4
Water delivered measured household	5.6	5.9	6.3	6.7	6.9
Water delivered unmeasured household	0.9	0.6	0.3	0.1	0.1
Total Leakage	1.5	1.5	1.5	1.5	1.5
Water delivered measured non-household	4.1	3.9	3.7	3.6	3.5
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0
Distribution Input	12.0	11.9	11.8	11.8	12.0

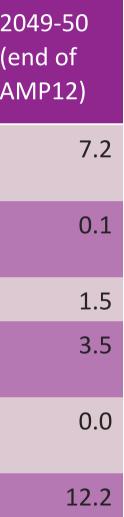
2049-50 (end of AMP12)				
3	14.3			
0	0.0			
3	14.3			
0	12.2			
9	0.8			
4	1.3			

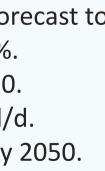
DYCP BL supply demand summary: Norfolk Harleston

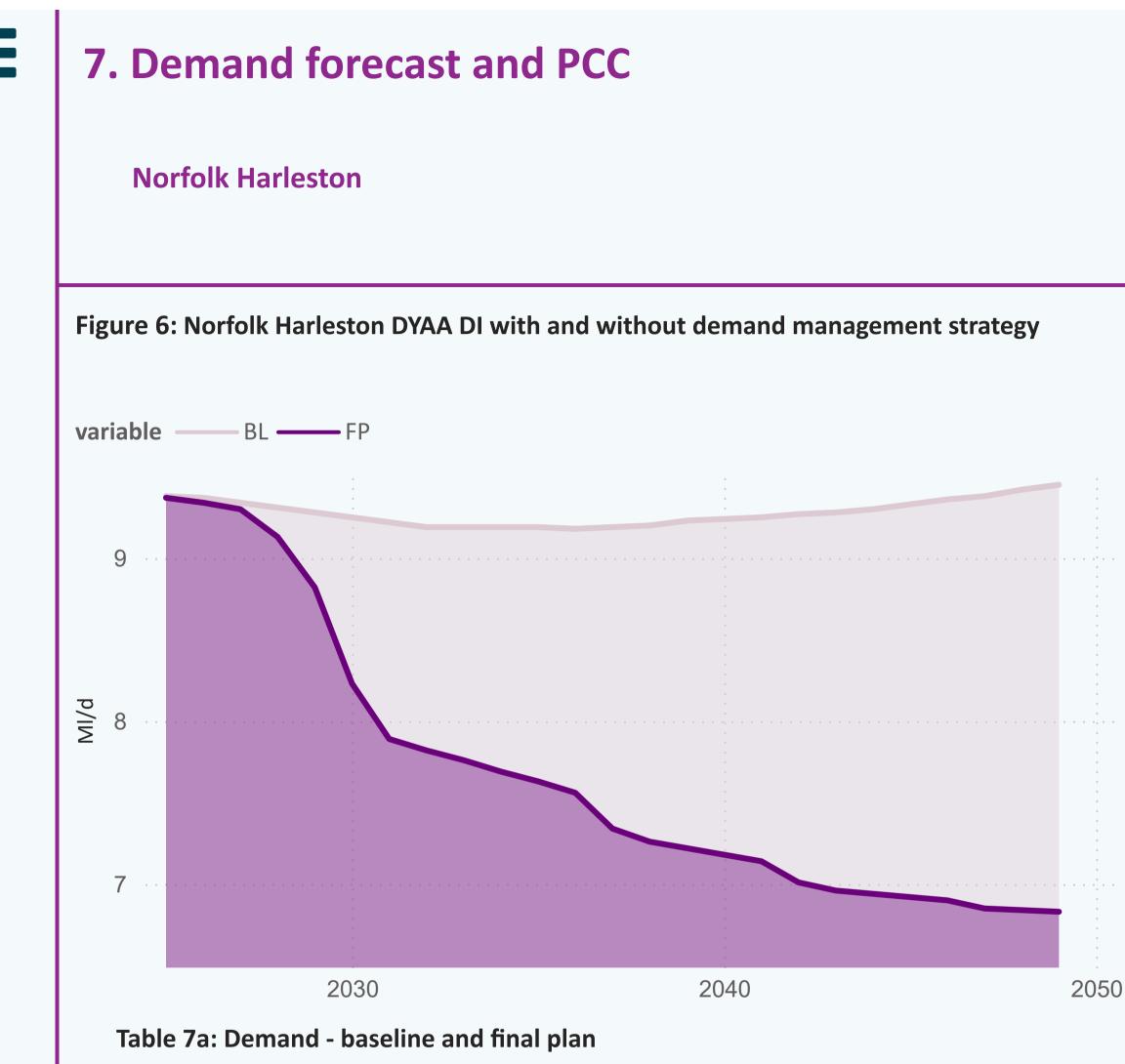
Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 6.5 MI/d in 2025 to 7.3 MI/d in 2050, a percentage change of 12.2 %.
- Baseline Leakage: is forecast to change from 1.5 Ml/d in 2025 to 1.5 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 4.1 Ml/d to 3.5 Ml/d.
- Baseline Distribution Input: is expected to change from 12.0 MI/d to 12.2 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).







variable	2029-30 (end of AMP8)	``	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
BL	9.3	9.2	9.2	9.3	9
FP	8.8	7.7	7.2	6.9	6



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Demand Norfolk Harleston (see Table 7a)

Baseline demand is expected to increase from 9.4 (MI/d) in 2025 to 9.5 (MI/d) in 2050. With demand management options in place, demand is expected to be 6.8 (MI/d).

PCC Norfolk Harleston (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 117.2 (l/h/d) measured and 160.7 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 121.6 (I/h/d) in 2025/26. This is forecast to fall to 96.2 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

9.5 5.8

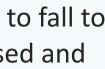
Table 7b: DMO strategy Final Plan

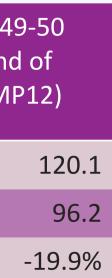
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	119.6	119.1	119.6	119.7	
FP demand forecast(DYAA)	110.9	106.2	100.9	97.7	
% change BL to FP	-7.3%	-10.9%	-15.6%	-18.4%	











8. Demand management options

Norfolk Harleston

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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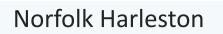
• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27Ml/d across the region by 2025).

Water efficiency measures

New technologies and interventions will help promote the careful use of water. Additional water
efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl;
Community reward schemes. As part of our WRMP24 we have developed and included 'water
efficiency visits' and leakage reduction measures for our Non-Household customers.

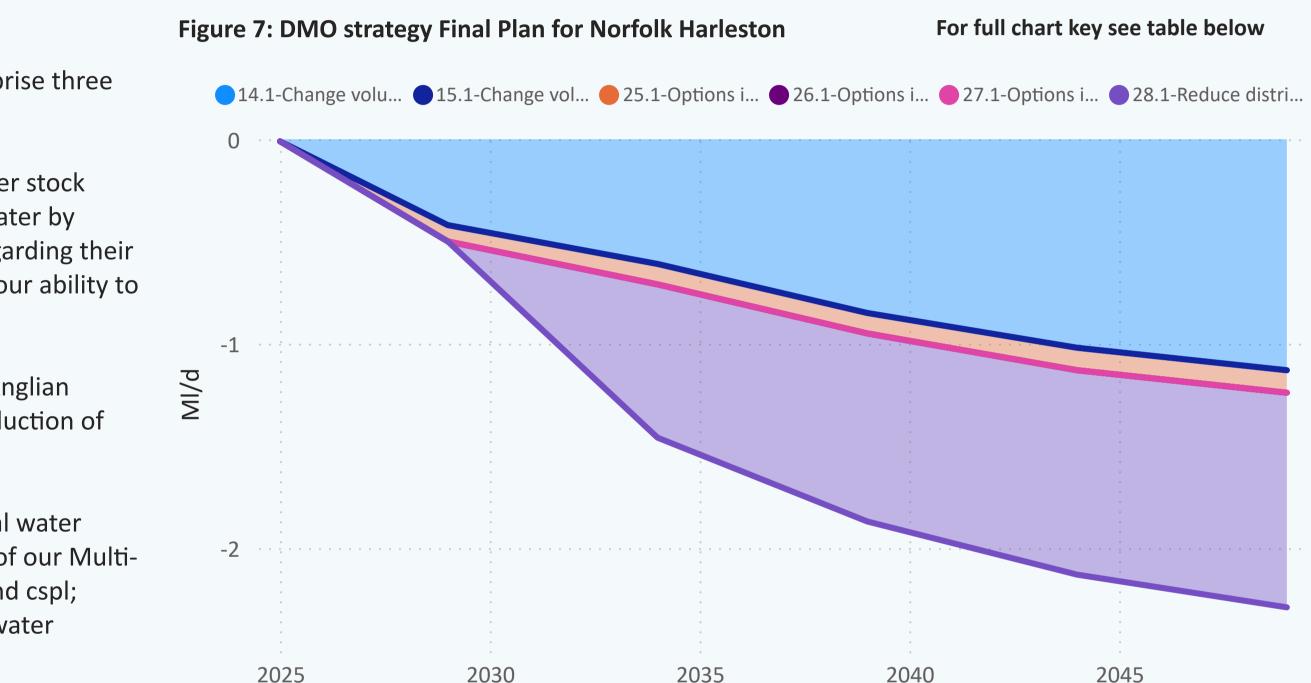
Table 8: DMO strategy Final Plan for Norfolk Harleston

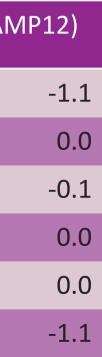
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.4	-0.6	-0.9	-1.0	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	-0.1	-0.1	-0.1	-0.1	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	-0.8	-0.9	-1.0	

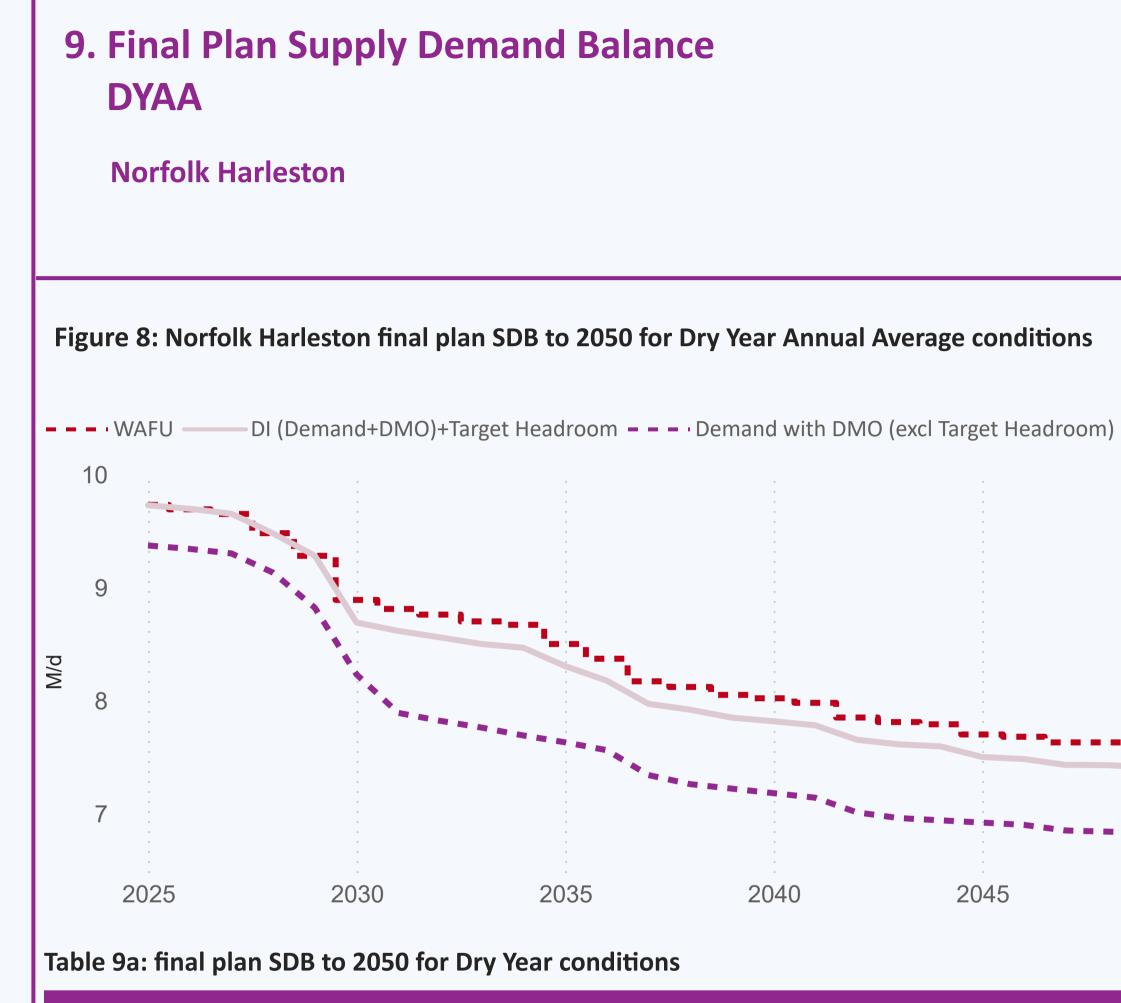












	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	9.0	9.0	7.7	7.0	7.0	7.0
Net Transfers	0.8	0.3	1.0	1.0	0.8	0.6
Total Water Available For Use	9.7	9.3	8.7	8.0	7.8	7.6
Distribution Input	9.4	8.8	7.7	7.2	6.9	6.8
Target Headroom	0.4	0.5	0.8	0.6	0.7	0.6
Supply Demand Balance	0.0	0.0	0.2	0.2	0.2	0.2

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Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)

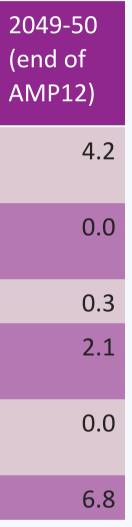
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	4.2	4.1	4.1	4.2	4.2
Water delivered unmeasured household	0.7	0.4	0.2	0.0	0.0
Total Leakage	1.5	1.4	0.6	0.5	0.4
Water delivered measured non- household	3.0	2.8	2.6	2.4	2.3
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	9.4	8.8	7.7	7.2	6.9

DYAA FP supply demand summary: Norfolk Harleston

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 4.9 MI/d in 2025 to 4.3 MI/d in 2050, a percentage change of -12.2 %.
- Final Plan Leakage is forecast to change from 1.5 Ml/d in 2025 to 0.3 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 3.0 Ml/d to 2.1 Ml/d.
- Final Plan Distribution Input is expected to change from 9.4 Ml/d to 6.8 Ml/d by 2050.





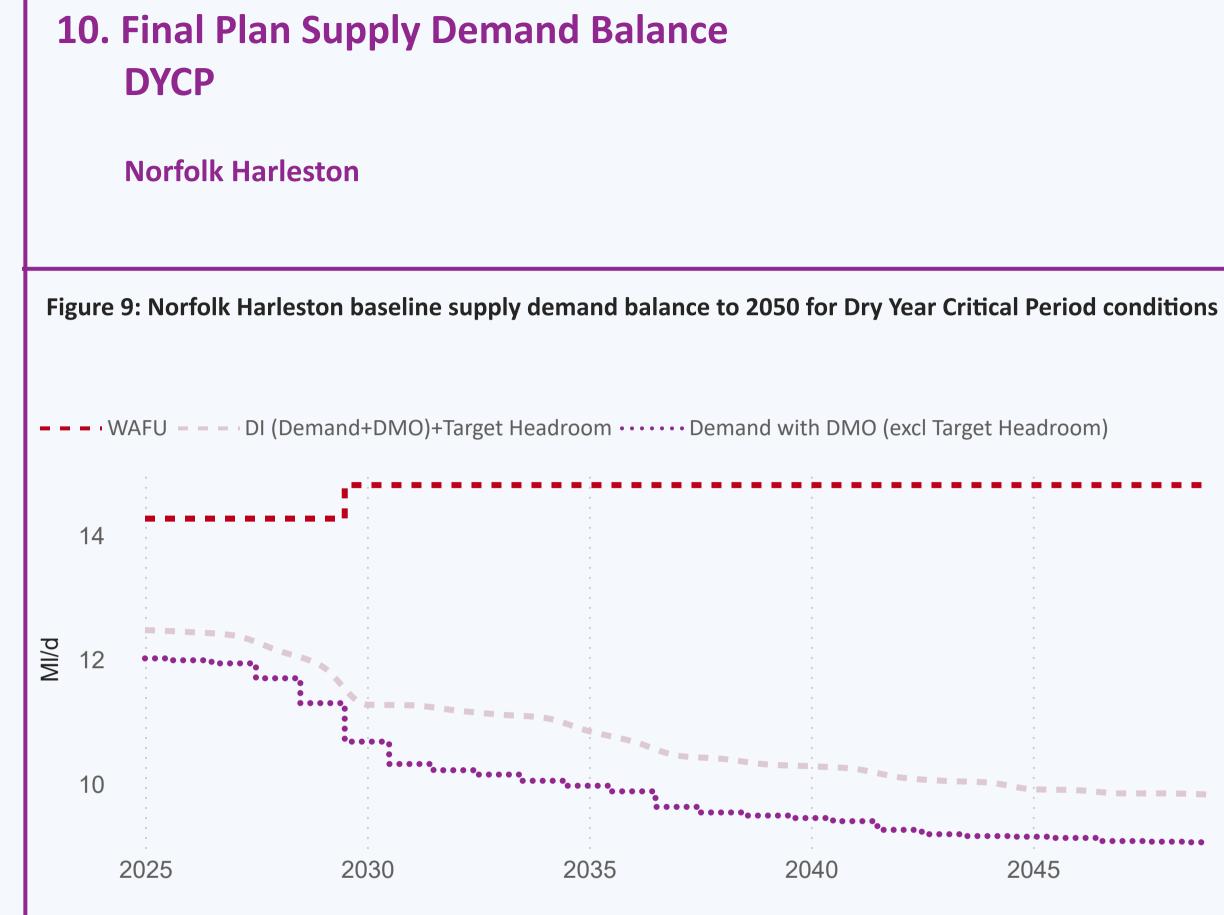


Table 10a: Final Plan supply demand balance 2025 - 2050 for DYCP conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	14.3	14.3	14.5	14.5	14.5	14.5
Net Transfers	0.0	0.0	0.3	0.3	0.3	0.3
Total Water Available For Use	14.3	14.3	14.8	14.8	14.8	14.8
Distribution Input	12.0	11.3	10.1	9.5	9.2	9.1
Target Headroom	0.5	0.6	1.0	0.8	0.9	0.8
Supply Demand Balance	1.8	2.4	3.7	4.5	4.8	5.0

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options)

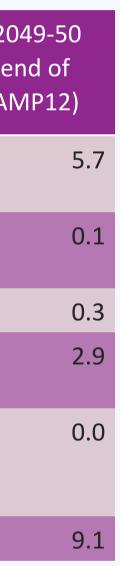
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2((e Al
Water delivered measured household	5.5	5.4	5.5	5.6	5.6	
Water delivered unmeasured household	0.9	0.6	0.3	0.1	0.1	
Total Leakage	1.5	1.4	0.6	0.5	0.4	
Water delivered measured non-household	4.1	3.8	3.5	3.3	3.0	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	12.0	11.3	10.1	9.5	9.2	

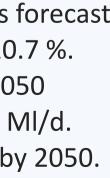
DYCP BL supply demand summary: Norfolk Harleston

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 6.5 Ml/d in 2025 to 5.8 Ml/d in 2050, a percentage change of -10.7 %.
- Final Plan Leakage: is forecast to change from 1.5 Ml/d in 2025 to 0.3 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 4.1 Ml/d to 2.9 Ml/d.
- Final Plan Distribution Input: is expected to change from 12.0 Ml/d to 9.1 Ml/d by 2050.

Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management





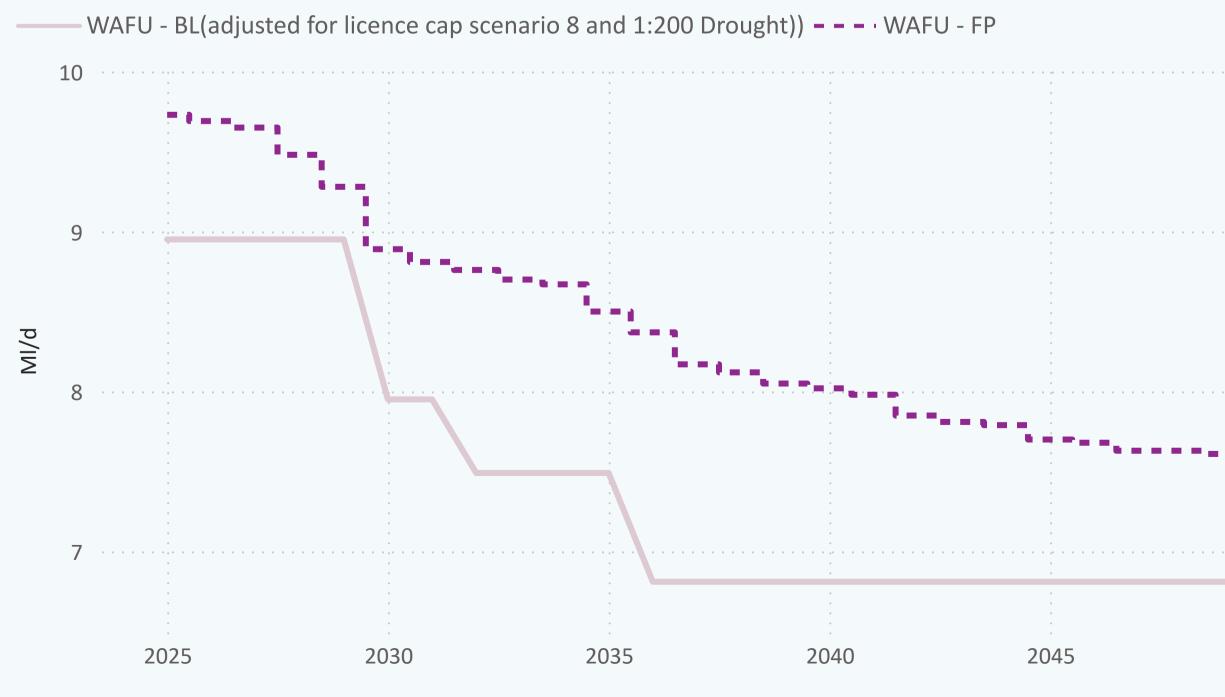


Norfolk Harleston

Table 11a: Total Water Available for use Baseline and Final Plan

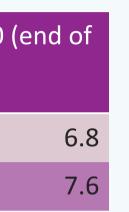
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	9.0	7.5	6.8	6.8	
WAFU - FP	9.3	8.7	8.0	7.8	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)









Supply side strategy options.

For details on the feasible options list for Norfolk Harleston WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options

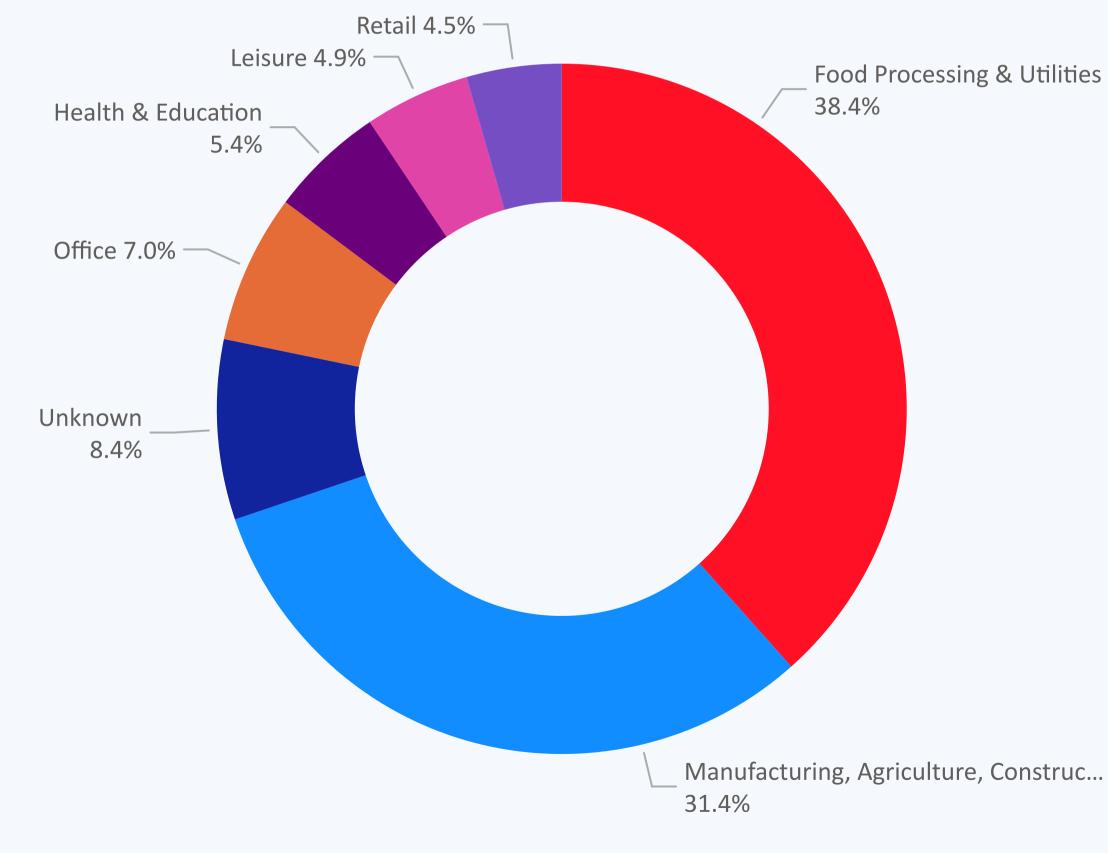
Option ID	First Option Name
EI10	Adjustment to existing potable water import
LC11	Adjustment for Licence cap scenario 8
NHL4	Norfolk East Harling to Norfolk Harleston potable transfer (5 Ml/d)
NHL7	Norfolk Harleston WTW backwash water recovery

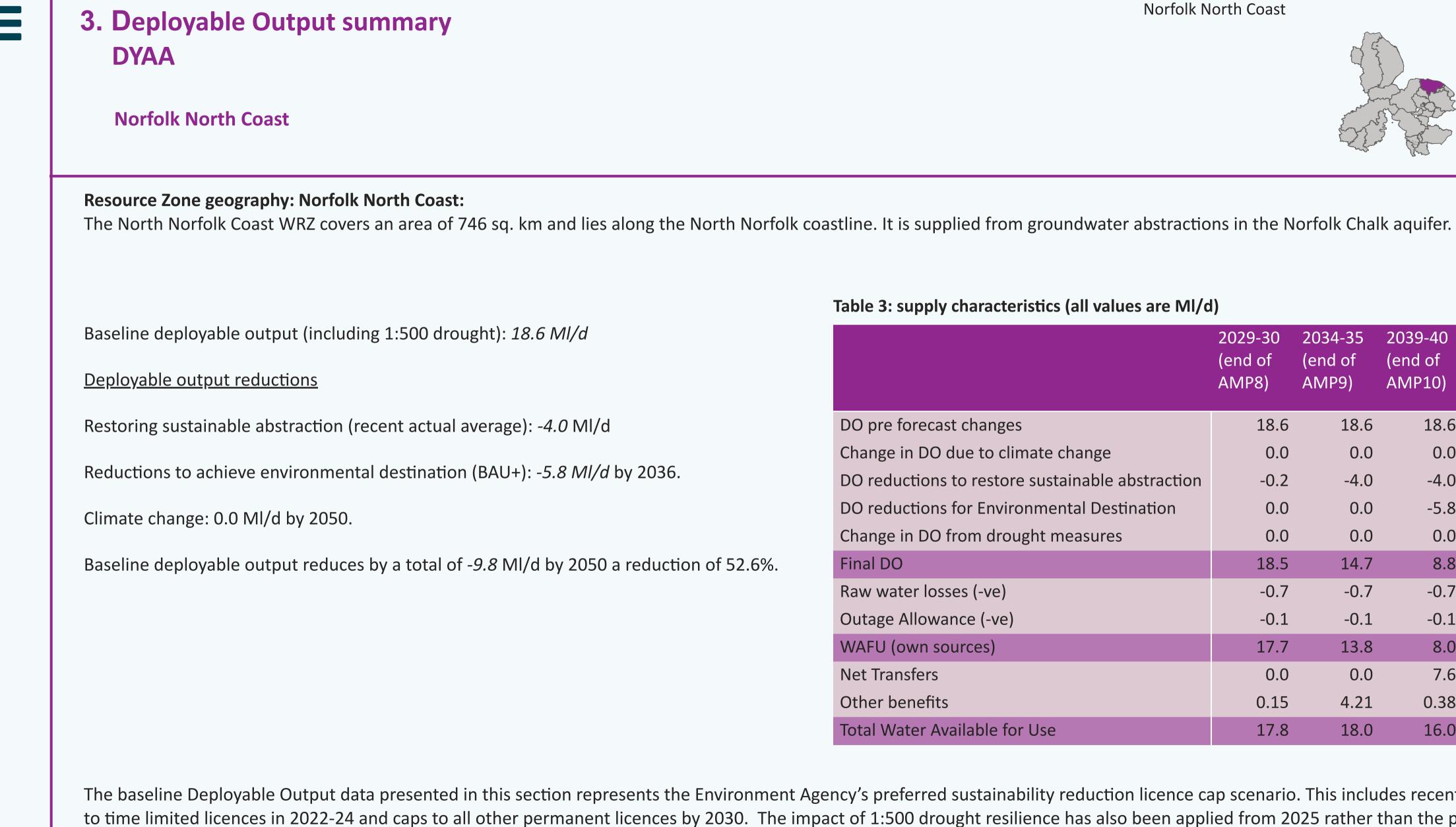












The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Norfolk North Coast



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	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
DO pre forecast changes	18.6	18.6	18.6	18.6	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-0.2	-4.0	-4.0	-4.0	
DO reductions for Environmental Destination	0.0	0.0	-5.8	-5.8	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	18.5	14.7	8.8	8.8	
Raw water losses (-ve)	-0.7	-0.7	-0.7	-0.7	
Outage Allowance (-ve)	-0.1	-0.1	-0.1	-0.1	
WAFU (own sources)	17.7	13.8	8.0	8.0	
Net Transfers	0.0	0.0	7.6	7.2	
Other benefits	0.15	4.21	0.38	0.38	
Total Water Available for Use	17.8	18.0	16.0	15.6	

Table 3: supply characteristics (all values are MI/d)



2049-50 (end of AMP12) 18.6 0.0 -4.0 -5.8 0.0 8.8 -0.7 -0.1 8.0 6.4 0.38 14.8

4. Population & Housing

Norfolk North Coast

Over the WRMP period, population in **Norfolk** North Coast is set to increase from 66413 in 2025 to **75923** in 2049-50 - this is an increase of **14.3 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	68
2034-35 (end of AMP9)	70
2039-40 (end of AMP10)	72
2044-45 (end of AMP11)	74
2049-50 (end of AMP12)	75

Over the WRMP period, property numbers in Norfolk North Coast are set to increase from **36456** in 2025 to **43718** in 2049-50 - this is an increase of **19.9 %** over the 25 years.

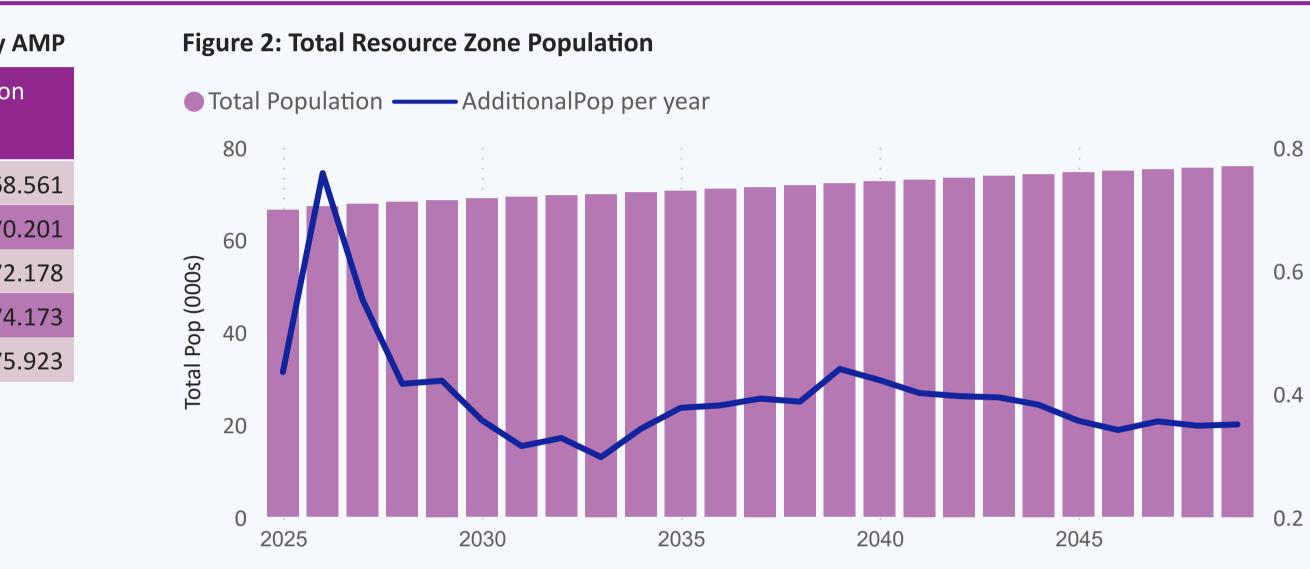
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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties excl voids (000s
2029-30 (end of AMP8)	38.
2034-35 (end of AMP9)	39.
2039-40 (end of AMP10)	41.
2044-45 (end of AMP11)	42.
2049-50 (end of AMP12)	43.







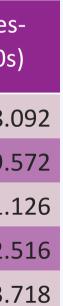
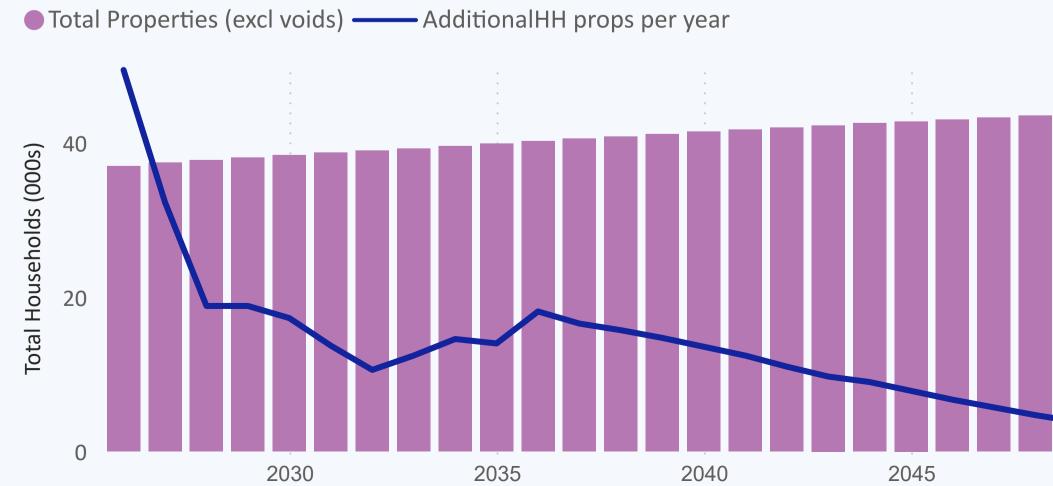


Figure 3: Total Resource Zone Properties (excl. voids)









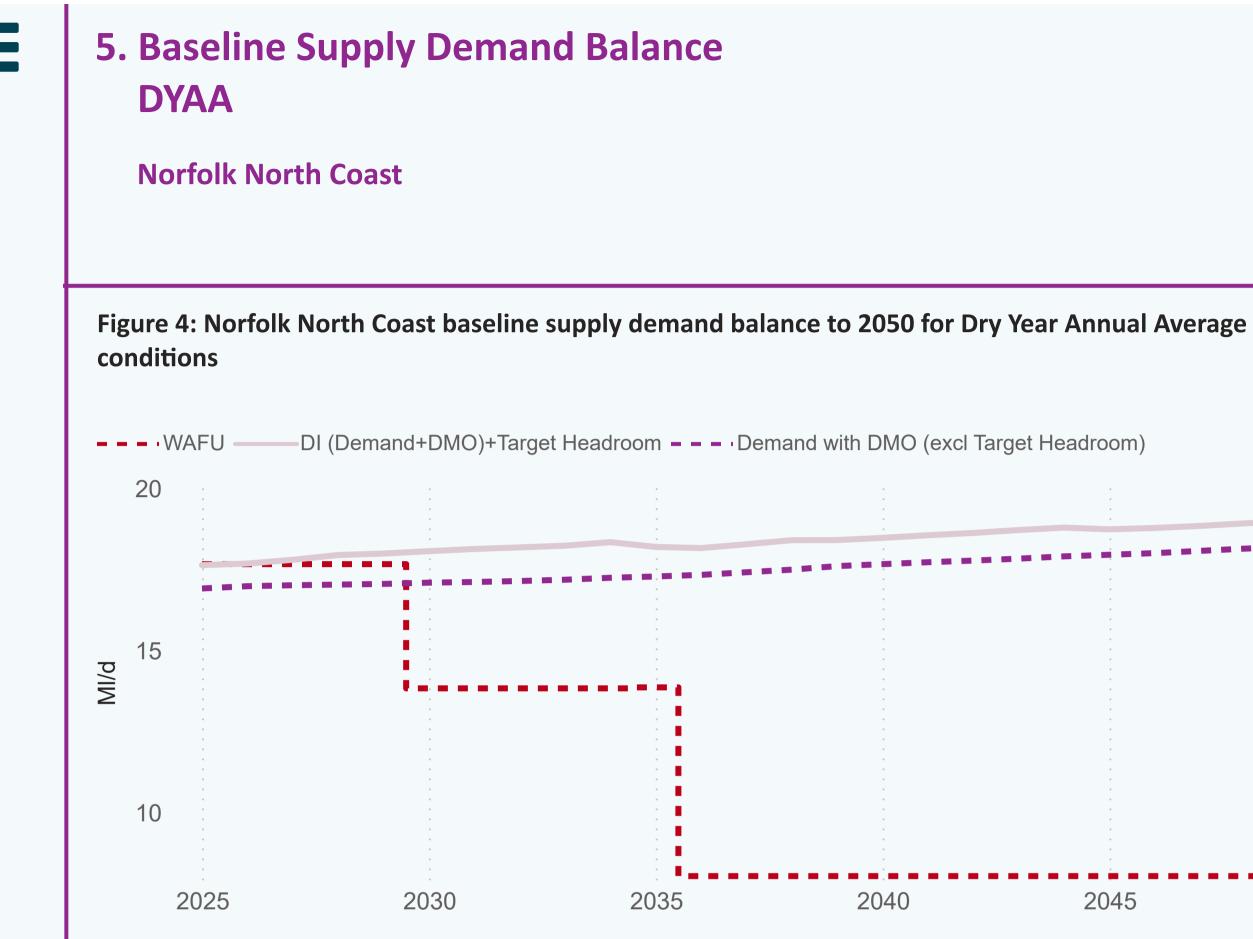


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	17.7	17.7	13.8	8.0	8.0	8.0
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	17.7	17.7	13.8	8.0	8.0	8.0
Distribution Input	16.9	17.1	17.2	17.6	17.9	18.2
Target Headroom	0.7	0.9	1.1	0.8	0.9	0.8
Supply Demand Balance	0.0	-0.3	-4.5	-10.4	-10.7	-10.9





Table 5b: Baseline demand forecast (without preferred demand management options)

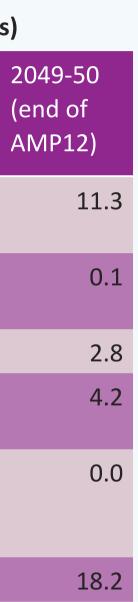
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	8.5	9.1	9.7	10.4	11.0
Water delivered unmeasured household	1.7	1.3	0.8	0.4	0.1
Total Leakage	2.7	2.7	2.7	2.7	2.7
Water delivered measured non-household	4.1	4.1	4.1	4.2	4.2
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	16.9	17.1	17.2	17.6	17.9

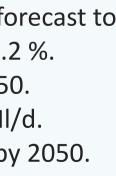
DYAA BL supply demand summary: Norfolk North Coast

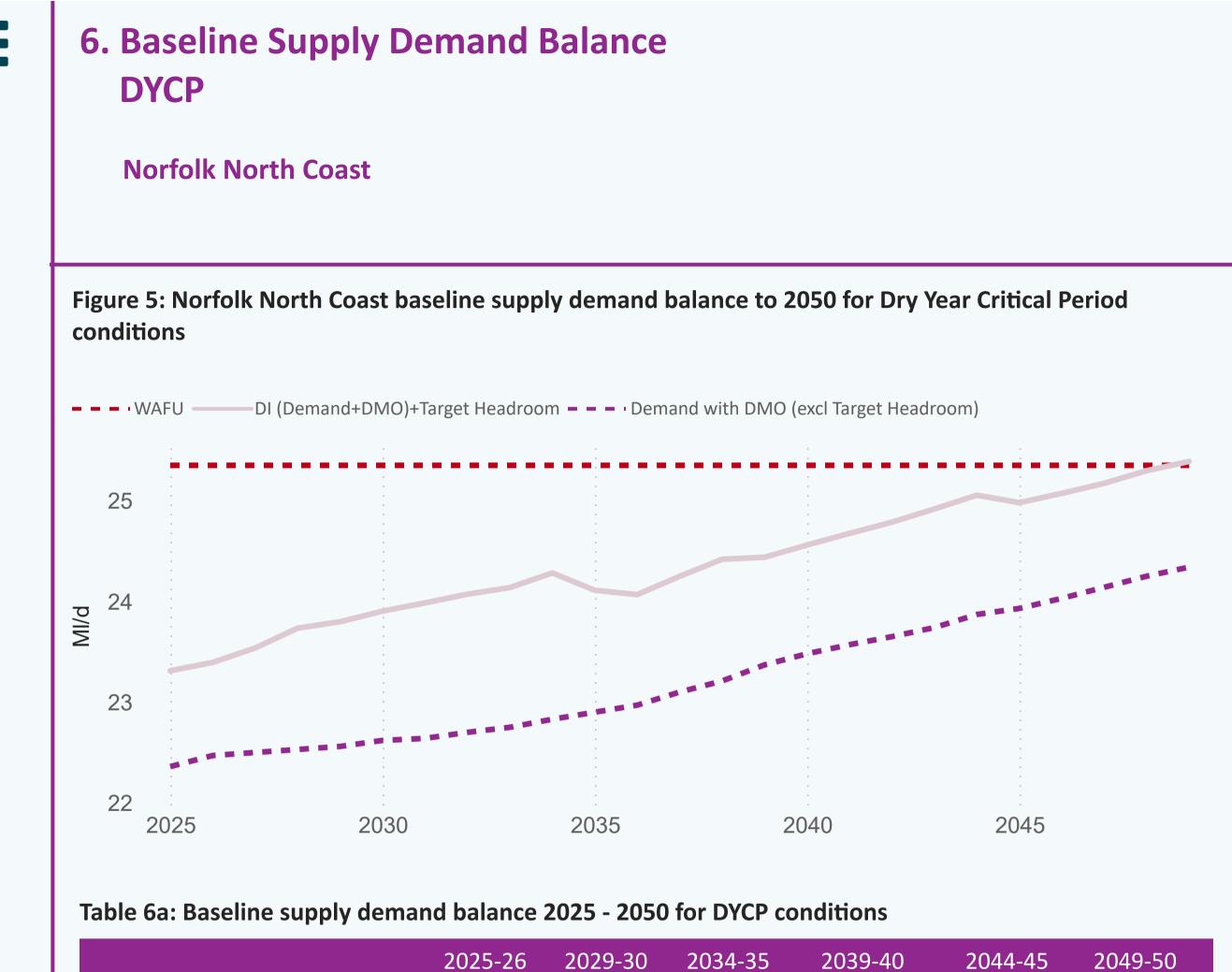
Baseline Supply Demand Balance: This zone is expected to go into deficit by 2026 (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 10.2 MI/d in 2025 to 11.3 MI/d in 2050, a percentage change of 11.2 %.
- Baseline Leakage: is forecast to change from 2.7 Ml/d in 2025 to 2.8 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 4.1 Ml/d to 4.2 Ml/d.
- Baseline Distribution Input: is expected to change from 16.9 MI/d to 18.2 MI/d by 2050.









	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	25.4	25.4	25.4	25.4	25.4	25.4
Net Transfers	0.0	0.0	0.0	0.0	0.0	0.0
Total Water Available For Use	25.4	25.4	25.4	25.4	25.4	25.4
Distribution Input	22.4	22.6	22.8	23.4	23.9	24.3
Target Headroom	1.0	1.2	1.5	1.1	1.2	1.0
Supply Demand Balance	2.0	1.6	1.1	0.9	0.3	0.0

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Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

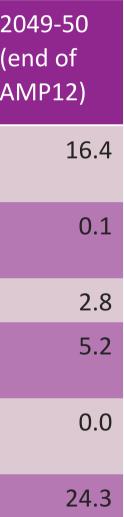
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (e A
Water delivered measured household	12.1	13.0	13.9	15.0	15.9	
Water delivered unmeasured household	2.6	1.9	1.2	0.6	0.2	
Total Leakage	2.7	2.7	2.7	2.7	2.7	
Water delivered measured non-household	5.1	5.1	5.1	5.1	5.2	
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	22.4	22.6	22.8	23.4	23.9	

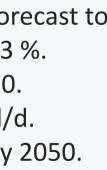
DYCP BL supply demand summary: Norfolk North Coast

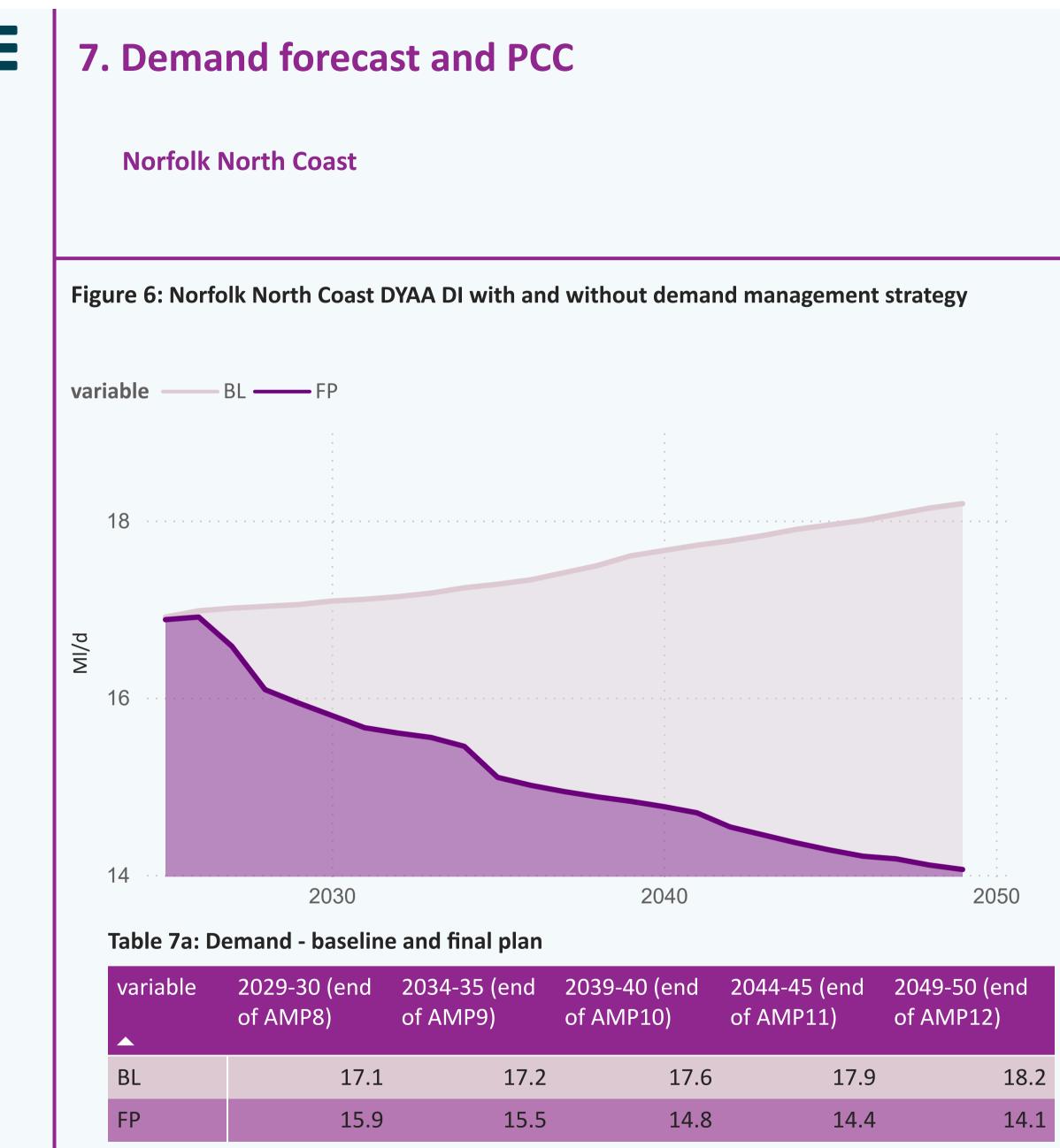
Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 14.7 MI/d in 2025 to 16.5 MI/d in 2050, a percentage change of 12.3 %.
- Baseline Leakage: is forecast to change from 2.7 Ml/d in 2025 to 2.8 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 5.1 Ml/d to 5.2 Ml/d.
- Baseline Distribution Input: is expected to change from 22.4 MI/d to 24.3 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).









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Demand Norfolk North Coast (see Table 7a)

Baseline demand is expected to increase from 16.9 (MI/d) in 2025 to 18.2 (MI/d) in 2050. With demand management options in place, demand is expected to be 14.1 (MI/d).

PCC Norfolk North Coast (see Table 7b)

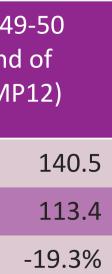
Per Capita Consumption (PCC) in the base year 2025/26 is 133.7 (l/h/d) measured and 234.2 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 143.8 (I/h/d) in 2025/26. This is forecast to fall to 113.4 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

Table 7b: DMO strategy Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	141.2	140.0	140.9	140.5	
FP demand forecast(DYAA)	130.5	124.6	119.7	115.1	
% change BL to FP	-7.5%	-11.0%	-15.0%	-18.0%	





8. Demand management options

Norfolk North Coast

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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• Our aim is to reduce leakage by more than 45MI/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

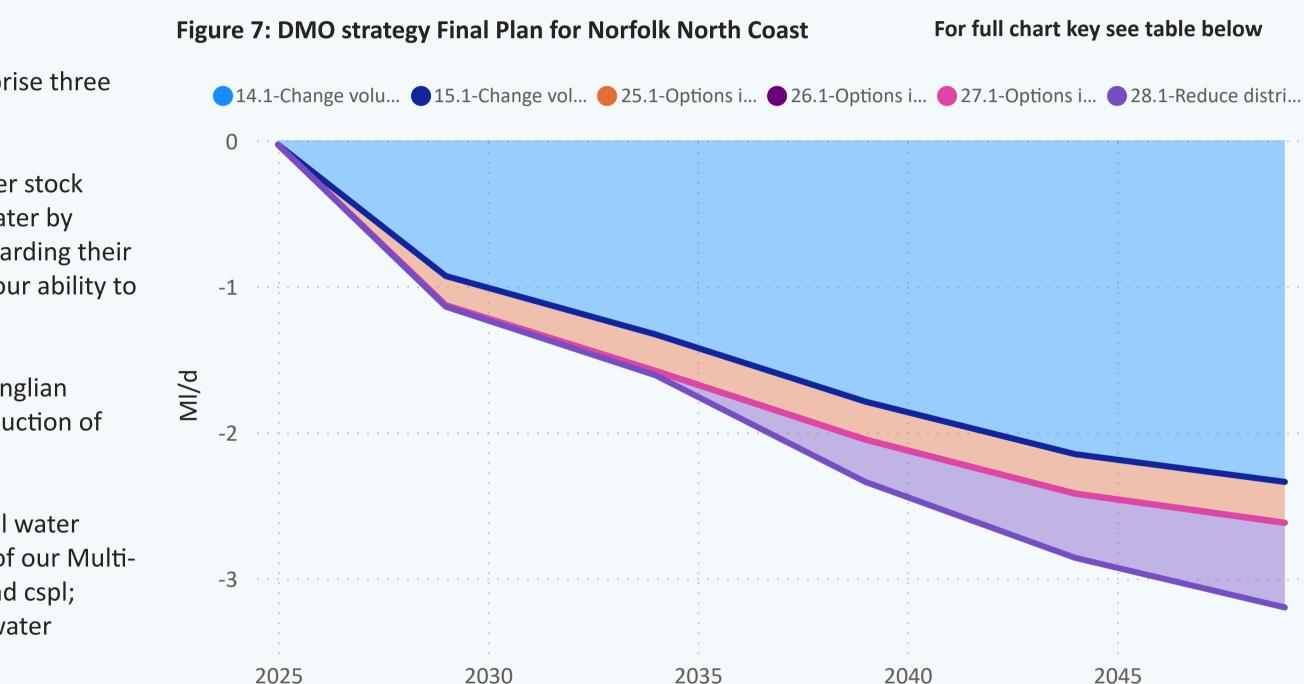
Table 8: DMO strategy Final Plan for Norfolk North Coast

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.9	-1.3	-1.8	-2.2	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	-0.2	-0.3	-0.3	-0.3	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	-0.3	-0.4	

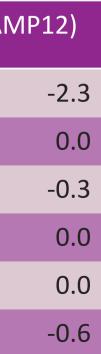


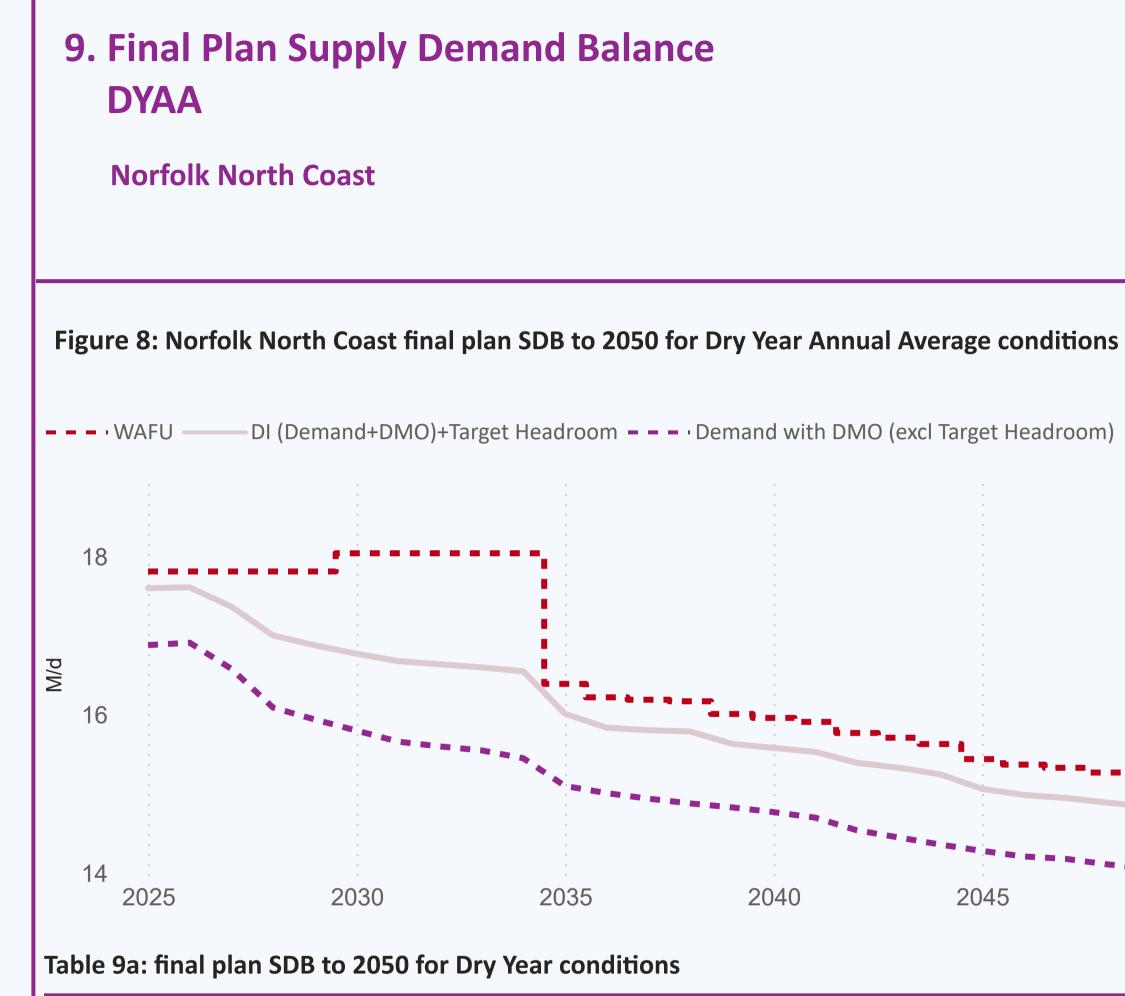






•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•





	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	17.8	17.8	18.0	8.4	8.4	8.4
Net Transfers	0.0	0.0	0.0	7.6	7.2	6.4
Total Water Available For Use	17.8	17.8	18.0	16.0	15.6	14.8
Distribution Input	16.9	15.9	15.5	14.8	14.4	14.1
Target Headroom	0.7	0.9	1.1	0.8	0.9	0.8
Supply Demand Balance	0.2	0.9	1.5	0.4	0.4	0.0

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Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)

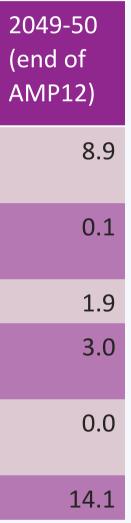
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 2 (end of AMP11)
Water delivered measured household	8.4	8.1	8.3	8.6	8.8
Water delivered unmeasured household	1.7	1.3	0.8	0.4	0.1
Total Leakage	2.7	2.5	2.5	2.2	2.0
Water delivered measured non- household	4.1	3.9	3.7	3.5	3.2
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	16.9	15.9	15.5	14.8	14.4

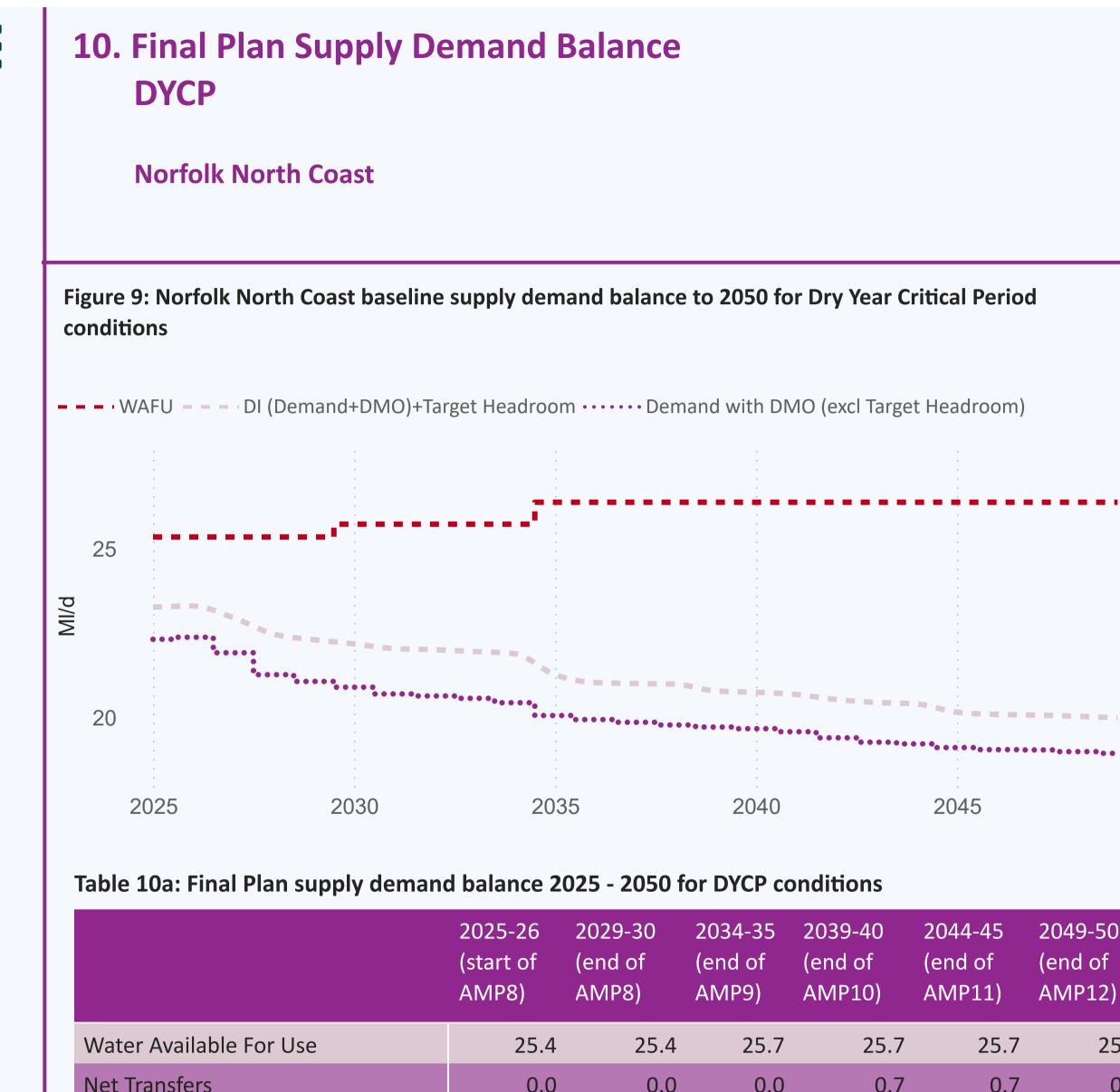
DYAA FP supply demand summary: Norfolk North Coast

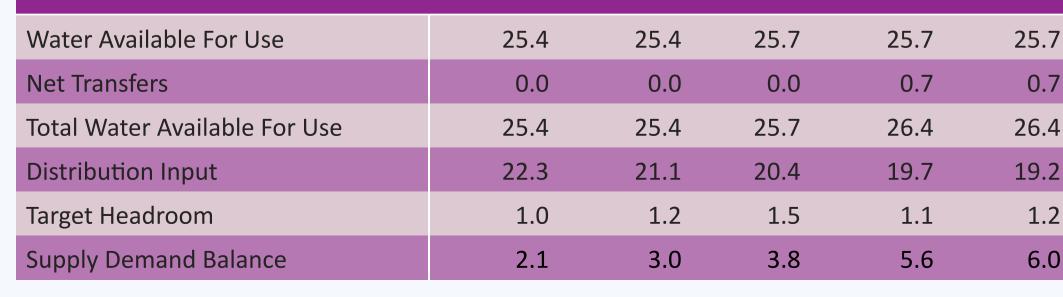
The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 10.2 MI/d in 2025 to 9.0 MI/d in 2050, a percentage change of -11.5 %.
- Final Plan Leakage is forecast to change from 2.7 Ml/d in 2025 to 1.9 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 4.1 Ml/d to 3.0 Ml/d.
- Final Plan Distribution Input is expected to change from 16.9 Ml/d to 14.1 Ml/d by 2050.









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Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

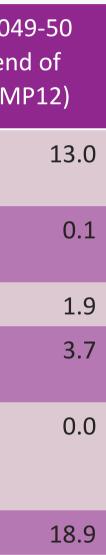
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (er AN
Water delivered measured household	12.1	11.7	12.1	12.5	12.8	
Water delivered unmeasured household	2.6	1.9	1.2	0.6	0.2	
Total Leakage	2.7	2.5	2.5	2.2	2.0	
Water delivered measured non-household	5.1	4.9	4.6	4.3	4.0	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	22.3	21.1	20.4	19.7	19.2	

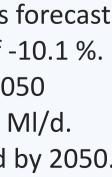
	2049-50 (end of AMP12)		
,	25.7		
,	0.7		
ŀ	26.4		
) -	18.9		
) -	1.0		
)	6.4		

DYCP BL supply demand summary: Norfolk North Coast

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 14.6 MI/d in 2025 to 13.2 MI/d in 2050, a percentage change of -10.1 %.
- Final Plan Leakage: is forecast to change from 2.7 Ml/d in 2025 to 1.9 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 5.1 Ml/d to 3.7 Ml/d.
- Final Plan Distribution Input: is expected to change from 22.3 Ml/d to 18.9 Ml/d by 2050.





11. Supply Side Strategy

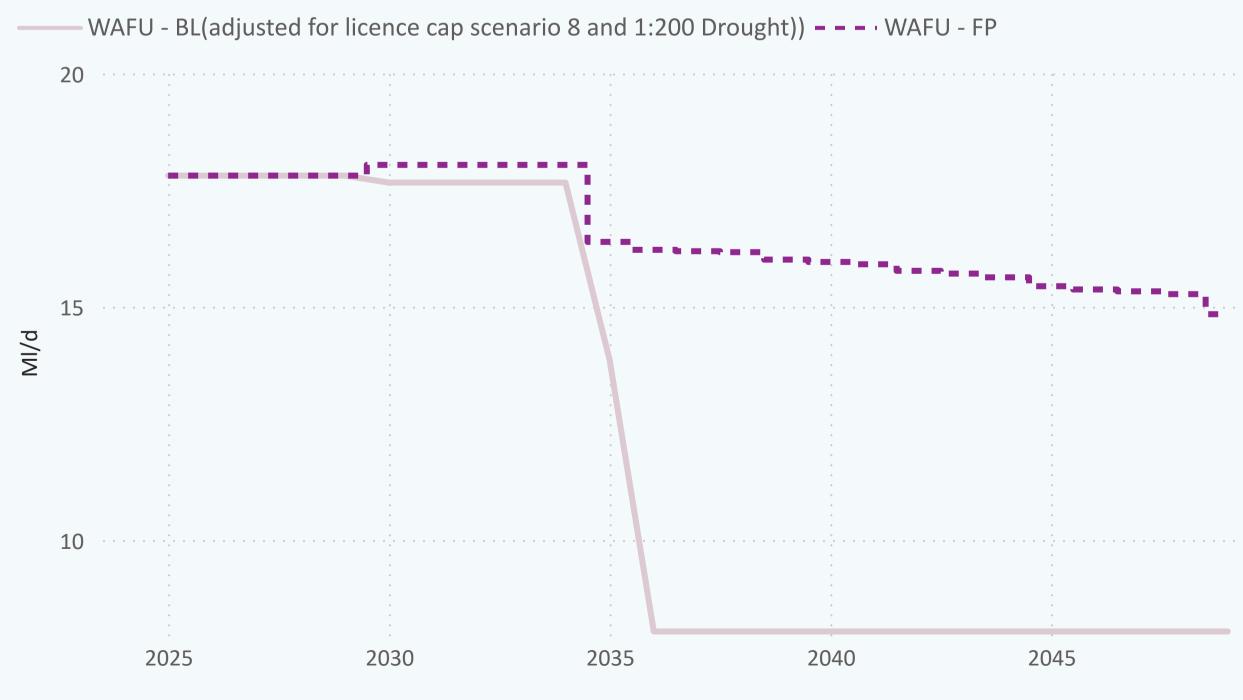
Norfolk North Coast

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Table 11a: Total Water Available for use Baseline and Final Plan

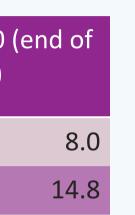
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	17.8	17.7	8.0	8.0	
WAFU - FP	17.8	18.0	16.0	15.6	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)





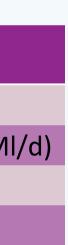




Supply side strategy options.

For details on the feasible options list for Norfolk North Coast WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options **Option ID** First Option Name LC12 Adjustment for Licence cap scenario 8 Norfolk East Dereham to North Norfolk Coast potable transfer (10 Ml/d) NNC4 North Norfolk Coast1 WTW backwash water recovery NNC5 North Norfolk Coast2 WTW backwash water recovery NNC6

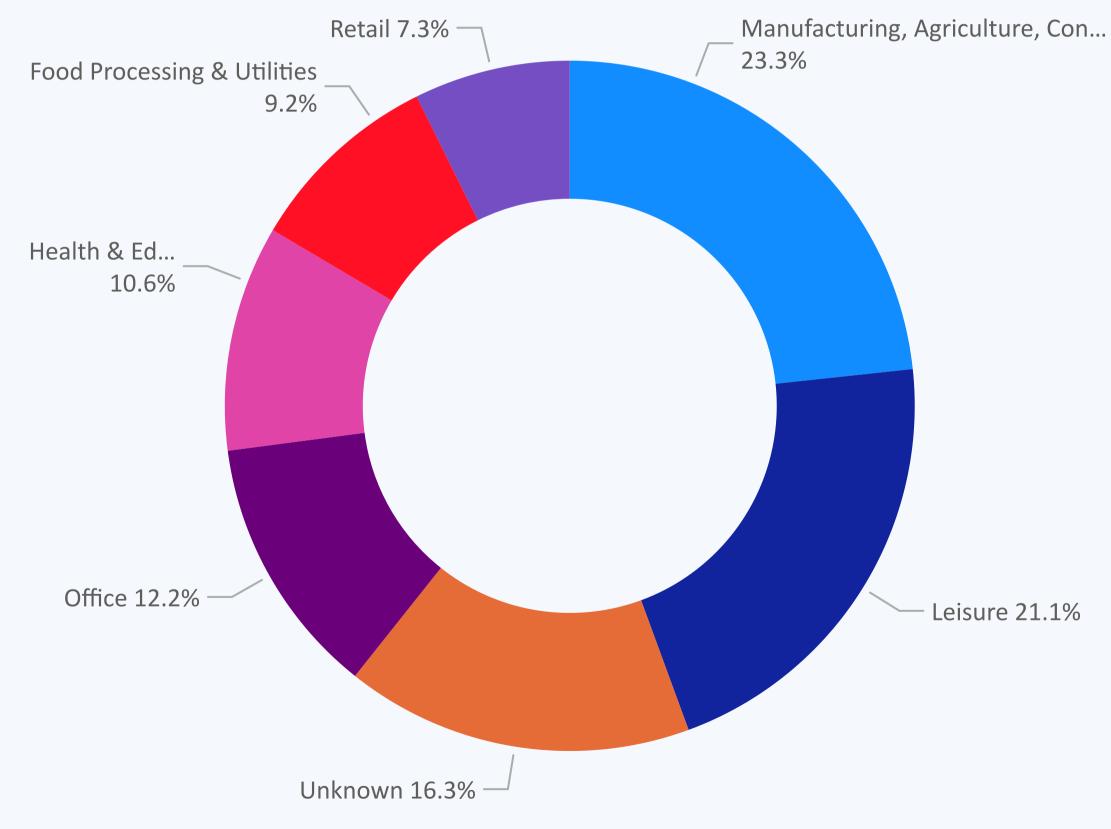


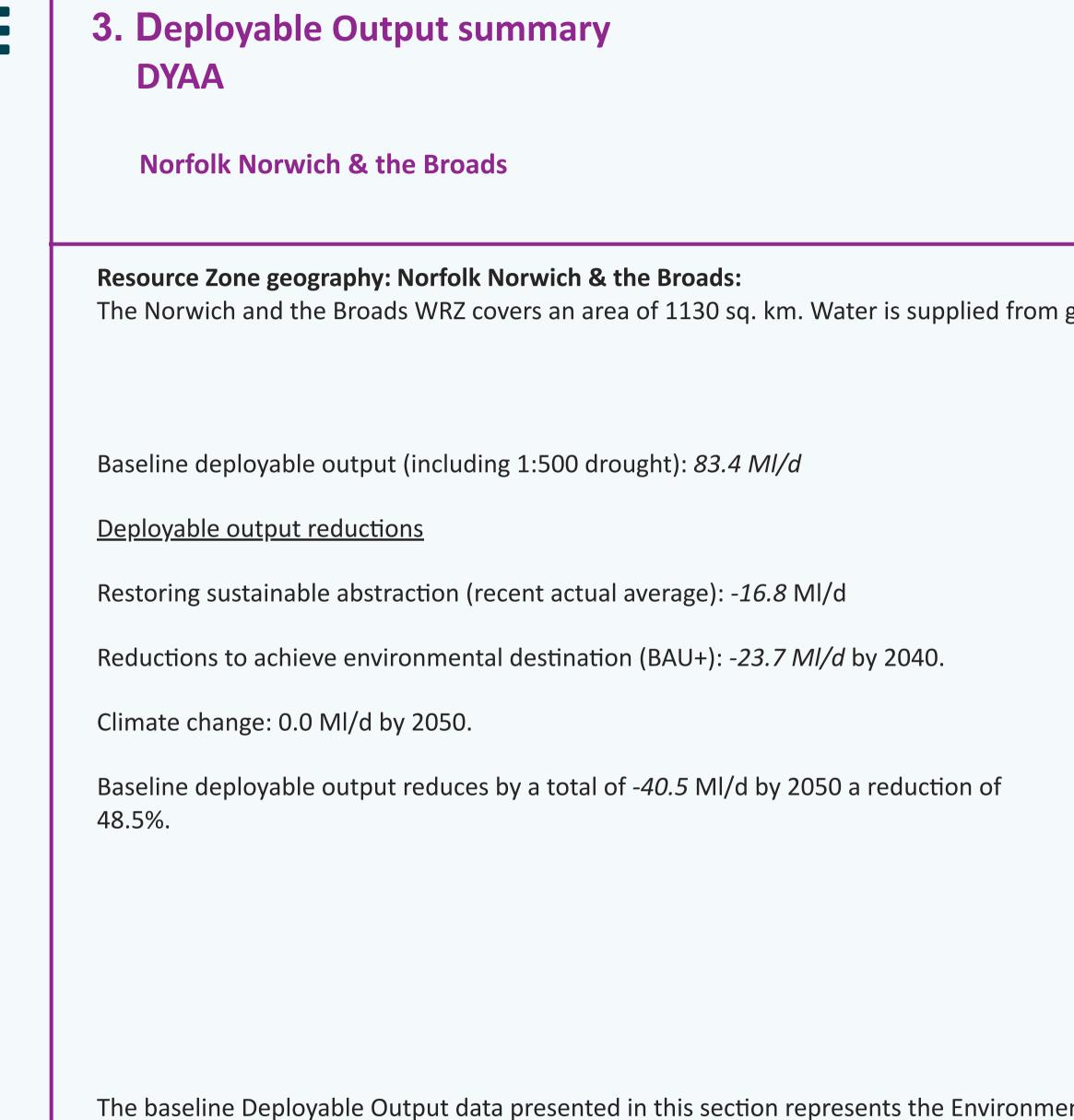












The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Norfolk Norwich & the Broads



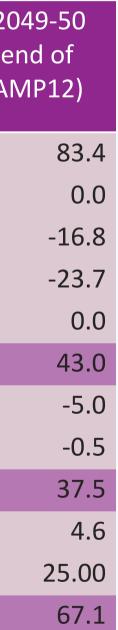
The Norwich and the Broads WRZ covers an area of 1130 sq. km. Water is supplied from groundwater abstractions in the Norfolk Chalk aquifer and surface water abstraction from the River Wensum.

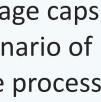
	-				
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (e Al
DO pre forecast changes	83.4	83.4	83.4	83.4	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
DO reductions to restore sustainable abstraction	-16.8	-16.8	-16.8	-16.8	
DO reductions for Environmental Destination	0.0	0.0	0.0	-23.7	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	66.7	66.7	66.7	43.0	
Raw water losses (-ve)	-5.0	-5.0	-5.0	-5.0	
Outage Allowance (-ve)	-0.6	-0.5	-0.5	-0.5	
WAFU (own sources)	61.1	61.2	61.2	37.5	
Net Transfers	-4.3	11.2	8.1	5.6	
Other benefits	16.75	0.00	0.00	25.00	
Total Water Available for Use	73.6	72.3	69.2	68.0	

Table 3: supply characteristics (all values are MI/d)









4. Population & Housing

Norfolk Norwich & the Broads

Over the WRMP period, population in **Norfolk** Norwich & the Broads is set to increase from **363045** in 2025 to **419124** in 2049-50 - this is an increase of **15.4 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	378
2034-35 (end of AMP9)	389
2039-40 (end of AMP10)	398
2044-45 (end of AMP11)	409
2049-50 (end of AMP12)	419

Over the WRMP period, property numbers in Norfolk Norwich & the Broads are set to increase from **168866** in 2025 to **203204** in 2049-50 - this is an increase of **20.3 %** over the 25 years.

Table 4b: Property totals (cumulative) by AMP

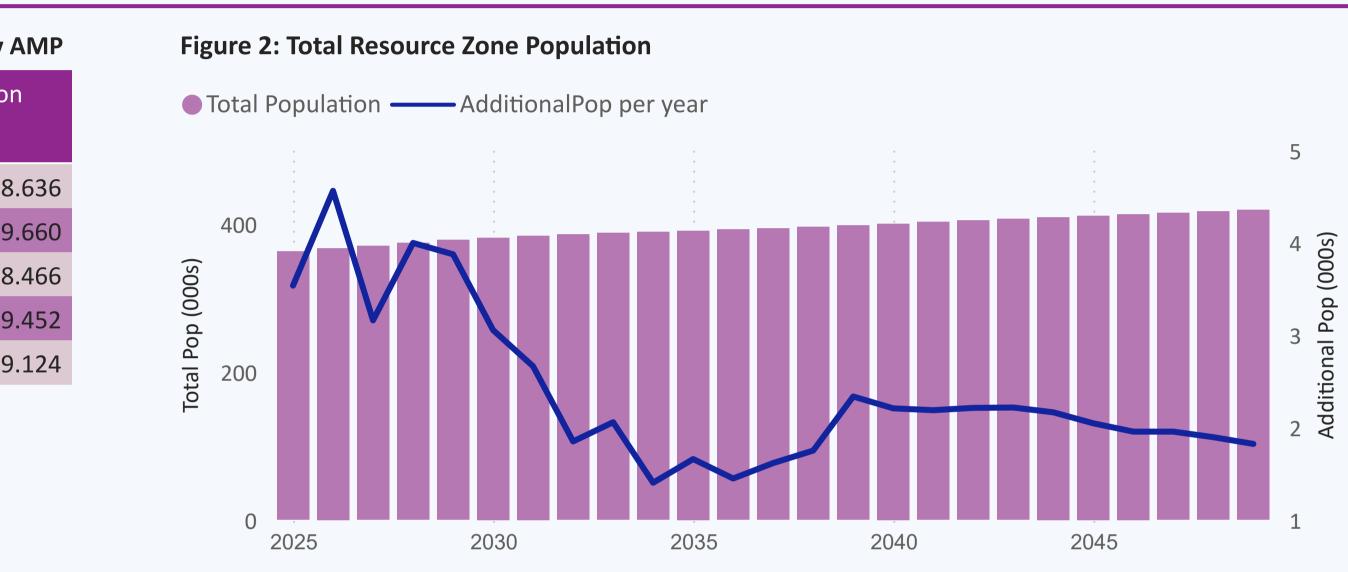
Year	Total Propertie excl voids (000
2029-30 (end of AMP8)	177.
2034-35 (end of AMP9)	185.
2039-40 (end of AMP10)	192.
2044-45 (end of AMP11)	198.
2049-50 (end of AMP12)	203.

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Norfolk Norwich & the Broads

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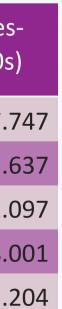
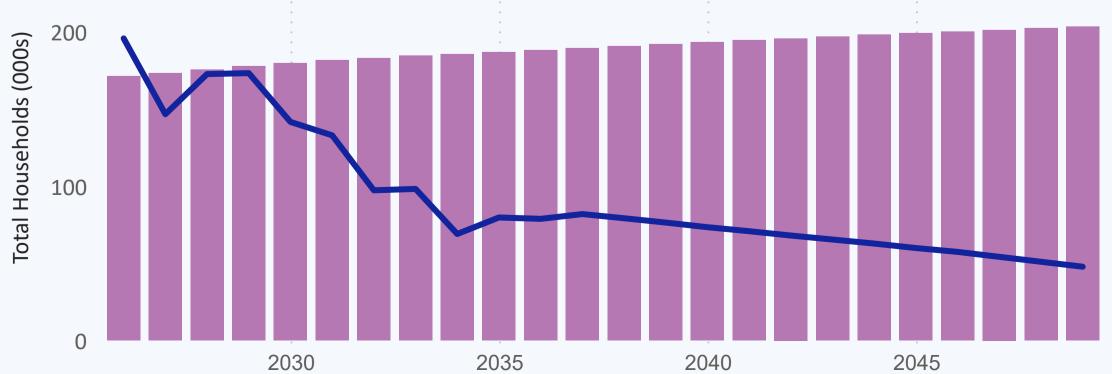


Figure 3: Total Resource Zone Properties (excl. voids)

Total Properties (excl voids) — AdditionalHH props per year







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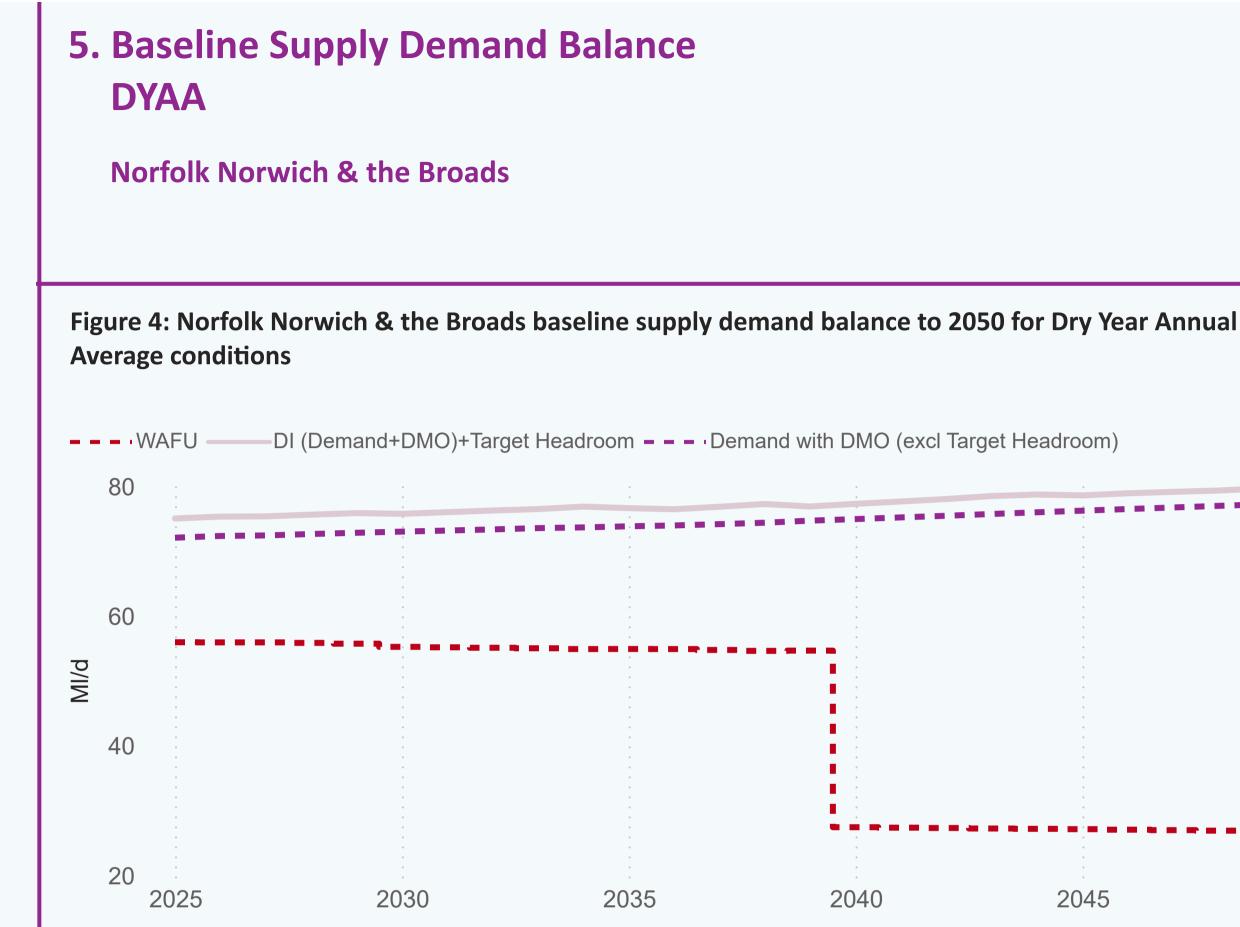


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	61.1	61.1	61.2	61.2	37.5	37.5
Net Transfers	-5.1	-5.3	-6.3	-6.5	-10.3	-10.6
Total Water Available For Use	56.0	55.7	54.9	54.7	27.2	26.8
Distribution Input	72.1	72.8	73.7	74.7	76.0	77.2
Target Headroom	3.0	3.0	3.2	2.2	2.7	2.4
Supply Demand Balance	-19.1	-20.1	-22.0	-22.2	-51.5	-52.9





Table 5b: Baseline demand forecast (without preferred demand management options)

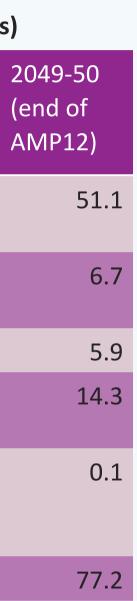
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	40.2	42.5	44.9	47.2	49.5
Water delivered unmeasured household	11.7	10.3	8.9	7.8	7.0
Total Leakage	6.0	5.8	5.7	5.8	5.8
Water delivered measured non-household	15.1	14.9	14.7	14.5	14.4
Water delivered unmeasured non- household	0.1	0.1	0.1	0.1	0.1
Distribution Input	72.1	72.8	73.7	74.7	76.0

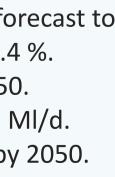
DYAA BL supply demand summary: Norfolk Norwich & the Broads

Baseline Supply Demand Balance: This zone will go into deficit immediately (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 51.9 MI/d in 2025 to 57.8 MI/d in 2050, a percentage change of 11.4 %.
- Baseline Leakage: is forecast to change from 6.0 Ml/d in 2025 to 5.9 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 15.1 Ml/d to 14.3 Ml/d.
- Baseline Distribution Input: is expected to change from 72.1 Ml/d to 77.2 Ml/d by 2050.







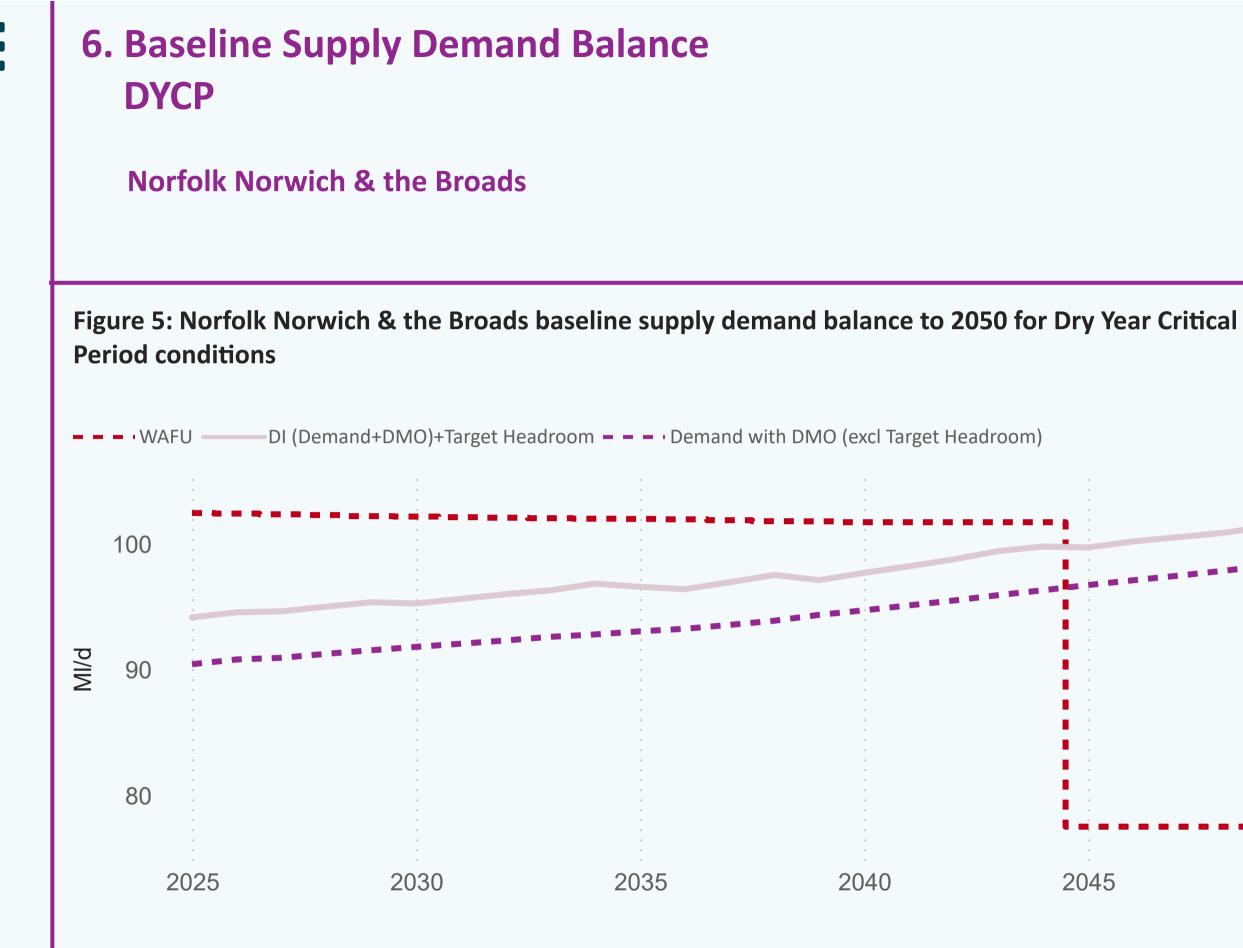


Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions

2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
113.2	113.2	113.2	113.2	113.
-10.8	-11.0	-11.2	-11.4	-11.
102.5	102.2	102.0	101.8	101.
90.4	91.6	92.8	94.4	96.
3.7	3.8	4.0	2.8	3.
8.3	6.9	5.2	4.7	1.
	(start of AMP8) 113.2 -10.8 102.5 90.4 3.7	(start of AMP8)(end of AMP8)113.2113.2-10.8-11.0102.5102.290.491.63.73.8	(start of AMP8)(end of AMP8)(end of AMP9)113.2113.2113.2-10.8-11.0-11.2102.5102.2102.090.491.692.83.73.84.0	(start of AMP8)(end of AMP8)(end of AMP9)(end of AMP10)113.2113.2113.2113.2-10.8-11.0-11.2-11.4102.5102.2102.0101.890.491.692.894.43.73.84.02.8







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water delivered measured household	52.2	55.4	58.7	61.9	65.2	67.5
Water delivered unmeasured household	15.8	13.9	12.1	10.6	9.5	9.2
Total Leakage	6.0	5.8	5.7	5.8	5.8	5.9
Water delivered measured non-household	17.4	17.2	16.9	16.8	16.6	16.5
Water delivered unmeasured non-household	0.1	0.1	0.1	0.1	0.1	0.1
Distribution Input	90.4	91.6	92.8	94.4	96.3	98.3

2049-50 (end of AMP12)				
2	88.0			
5	-10.5			
7	77.5			
3	98.3			
5	3.1			
9	-23.9			

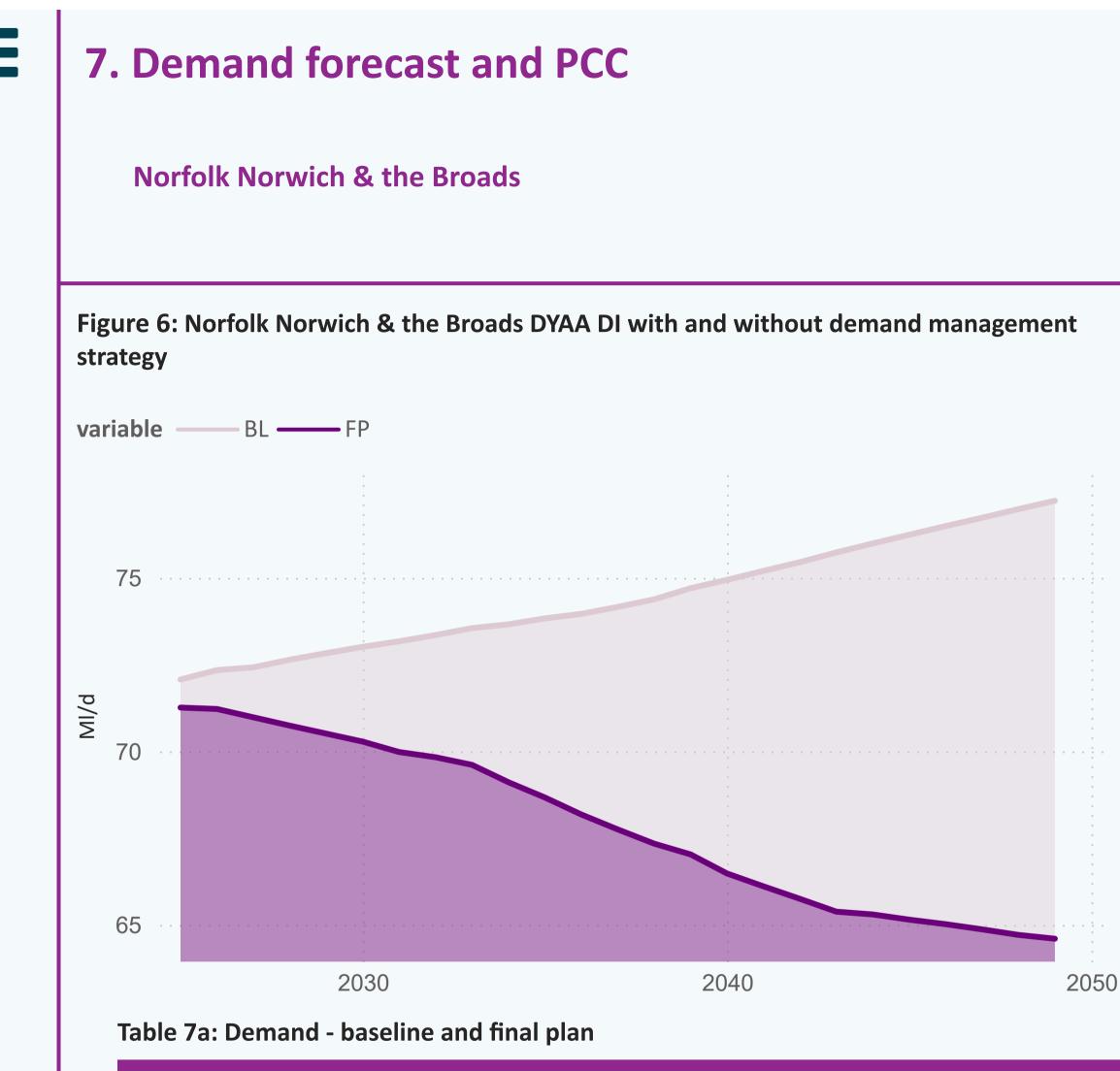
DYCP BL supply demand summary: Norfolk Norwich & the Broads

Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 68.0 MI/d in 2025 to 76.7 MI/d in 2050, a percentage change of 12.8 %.
- Baseline Leakage: is forecast to change from 6.0 Ml/d in 2025 to 5.9 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 17.4 Ml/d to 16.5 Ml/d.
- Baseline Distribution Input: is expected to change from 90.4 MI/d to 98.3 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).





variable	2029-30 (end of AMP8)	``	2039-40 (end of AMP10)	``	2049-50 (end of AMP12)
BL	72.8	73.7	74.7	76.0	77
FP	70.5	69.1	67.0	65.3	64





Demand Norfolk Norwich & the Broads (see Table 7a)

Baseline demand is expected to increase from 72.1 (MI/d) in 2025 to 77.2 (MI/d) in 2050. With demand management options in place, demand is expected to be 64.6 (MI/d).

PCC Norfolk Norwich & the Broads (see Table 7b)

Per Capita Consumption (PCC) in the base year 2025/26 is 125.2 (l/h/d) measured and 194.6 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 135.7 (I/h/d) in 2025/26. This is forecast to fall to 113.1 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

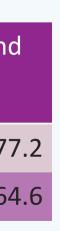
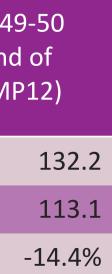


Table 7b: DMO strategy Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	133.1	132.3	132.3	132.2	
FP demand forecast(DYAA)	130.2	125.9	120.1	115.1	
% change BL to FP	-2.2%	-4.8%	-9.2%	-12.9%	



8. Demand management options

Norfolk Norwich & the Broads

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

Table 8: DMO strategy Final Plan for Norfolk Norwich & the Broads

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-1.5	-3.0	-5.4	-7.6	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	-0.4	-0.5	-0.5	-0.6	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	-0.1	-0.3	-0.4	-0.6	



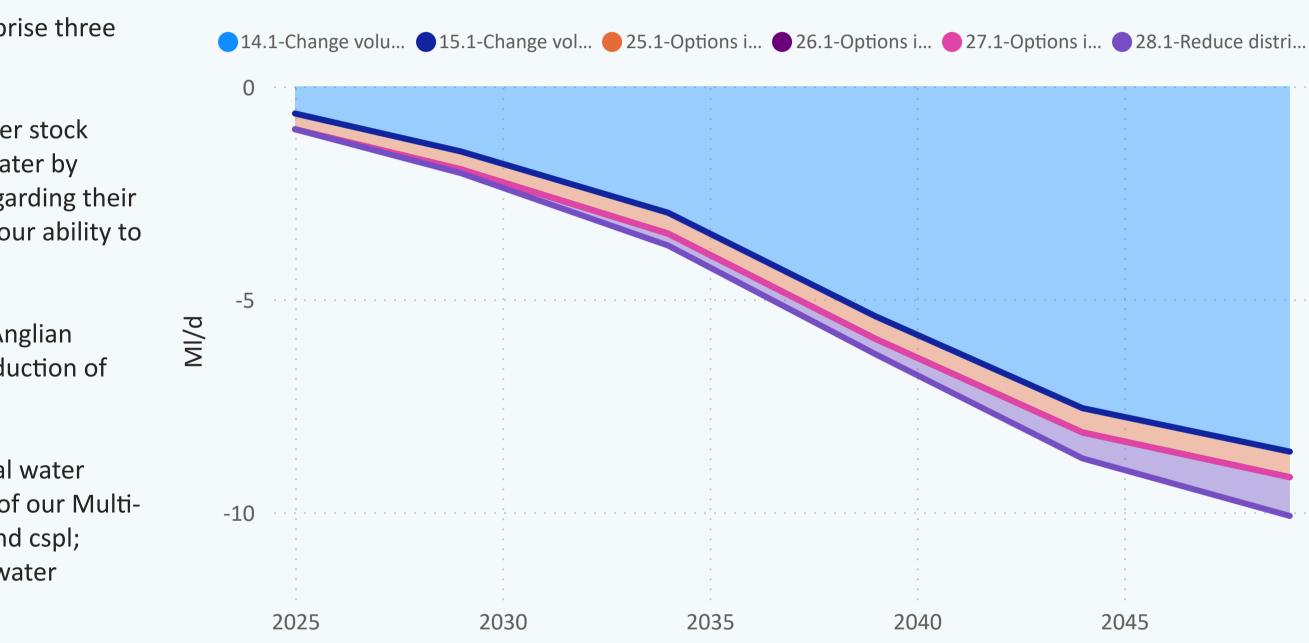
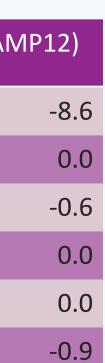
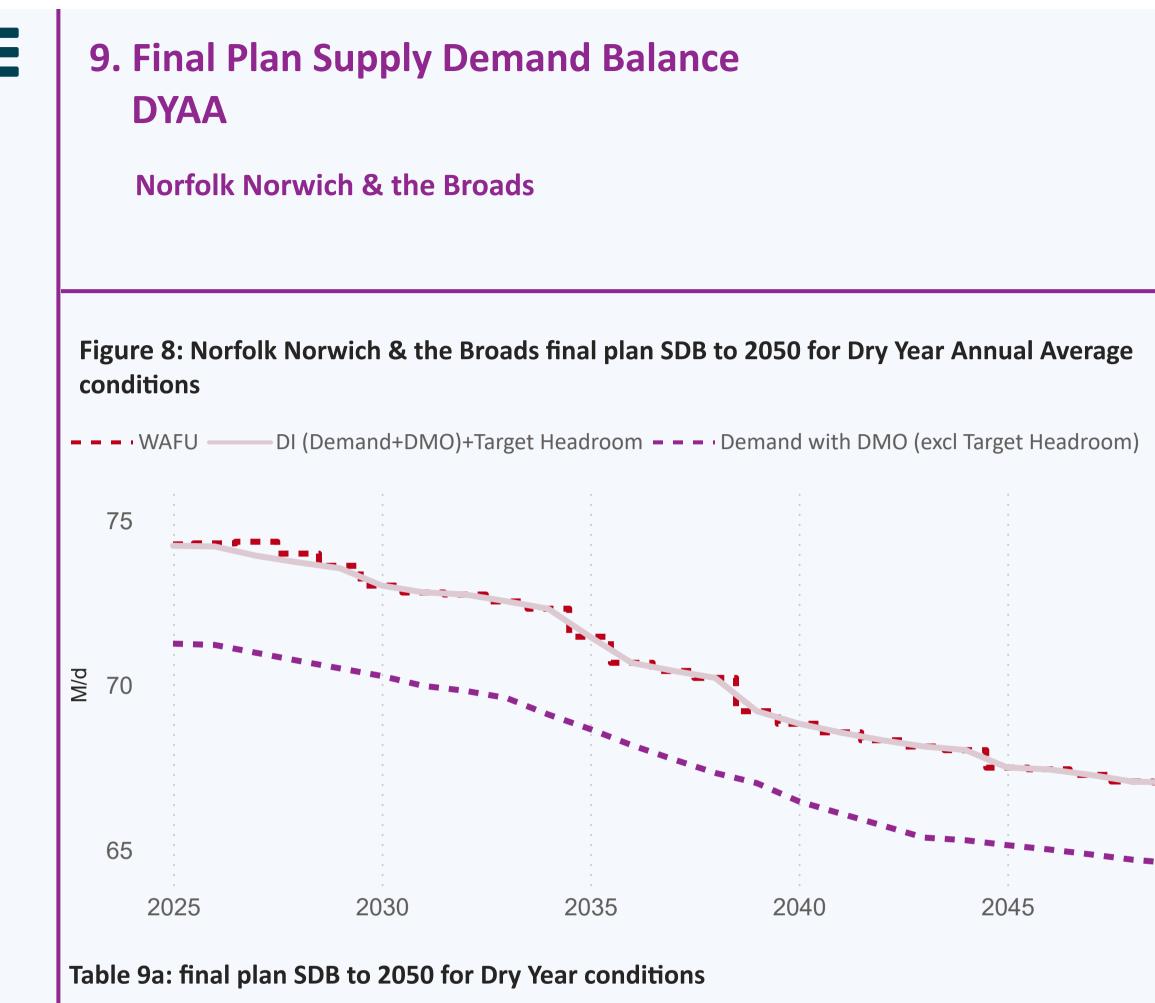


Figure 7: DMO strategy Final Plan for Norfolk Norwich & the Broads For full chart key see table below





	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	79.0	77.8	61.2	61.2	62.5	62.
Net Transfers	-4.7	-4.3	11.2	8.1	5.6	4.
Total Water Available For Use	74.3	73.6	72.3	69.2	68.0	67.
Distribution Input	71.3	70.5	69.1	67.0	65.3	64.
Target Headroom	3.0	3.0	3.2	2.2	2.7	2.
Supply Demand Balance	0.0	0.1	0.0	0.0	0.0	0.

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Table 9b: Final Plan demand forecast for DYAA conditions (with preferred demand management options)

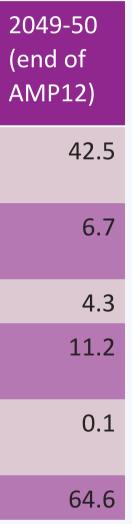
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	•
Water delivered measured household	39.5	41.0	42.0	41.8	42.0	
Water delivered unmeasured household	11.7	10.3	8.9	7.8	7.0	
Total Leakage	5.7	5.3	4.9	4.9	4.6	
Water delivered measured non- household	14.9	14.2	13.4	12.6	11.9	
Water delivered unmeasured non- household	0.1	0.1	0.1	0.1	0.1	
Distribution Input	71.3	70.5	69.1	67.0	65.3	

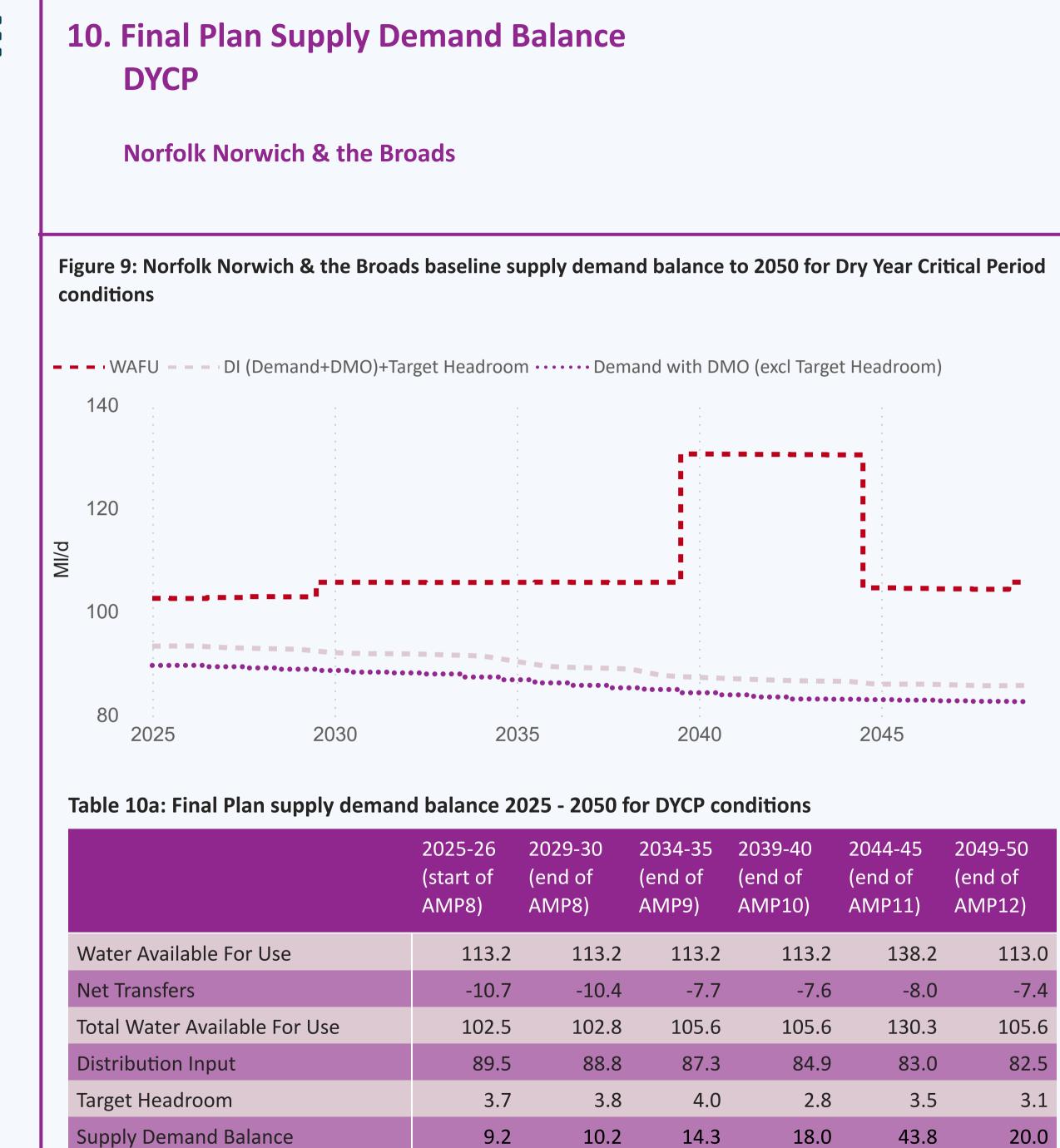
DYAA FP supply demand summary: Norfolk Norwich & the Broads

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 51.3 MI/d in 2025 to 49.2 MI/d in 2050, a percentage change of -4.0 %.
- Final Plan Leakage is forecast to change from 5.7 Ml/d in 2025 to 4.3 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 14.9 Ml/d to 11.2 Ml/d.
- Final Plan Distribution Input is expected to change from 71.3 Ml/d to 64.6 Ml/d by 2050.









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Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

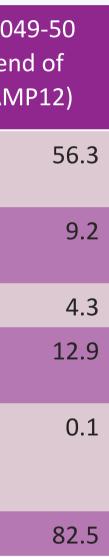
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (er AN
Water delivered measured household	51.4	53.5	54.9	55.0	55.3	
Water delivered unmeasured household	15.8	13.9	12.1	10.6	9.5	
Total Leakage	5.7	5.3	4.9	4.9	4.6	
Water delivered measured non-household	17.2	16.4	15.4	14.6	13.7	
Water delivered unmeasured non- household	0.1	0.1	0.1	0.1	0.1	
Distribution Input	89.5	88.8	87.3	84.9	83.0	

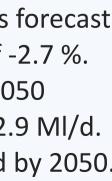
DYCP BL supply demand summary: Norfolk Norwich & the Broads

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 67.2 MI/d in 2025 to 65.5 MI/d in 2050, a percentage change of -2.7 %.
- Final Plan Leakage: is forecast to change from 5.7 Ml/d in 2025 to 4.3 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 17.2 Ml/d to 12.9 Ml/d.
- Final Plan Distribution Input: is expected to change from 89.5 Ml/d to 82.5 Ml/d by 2050.







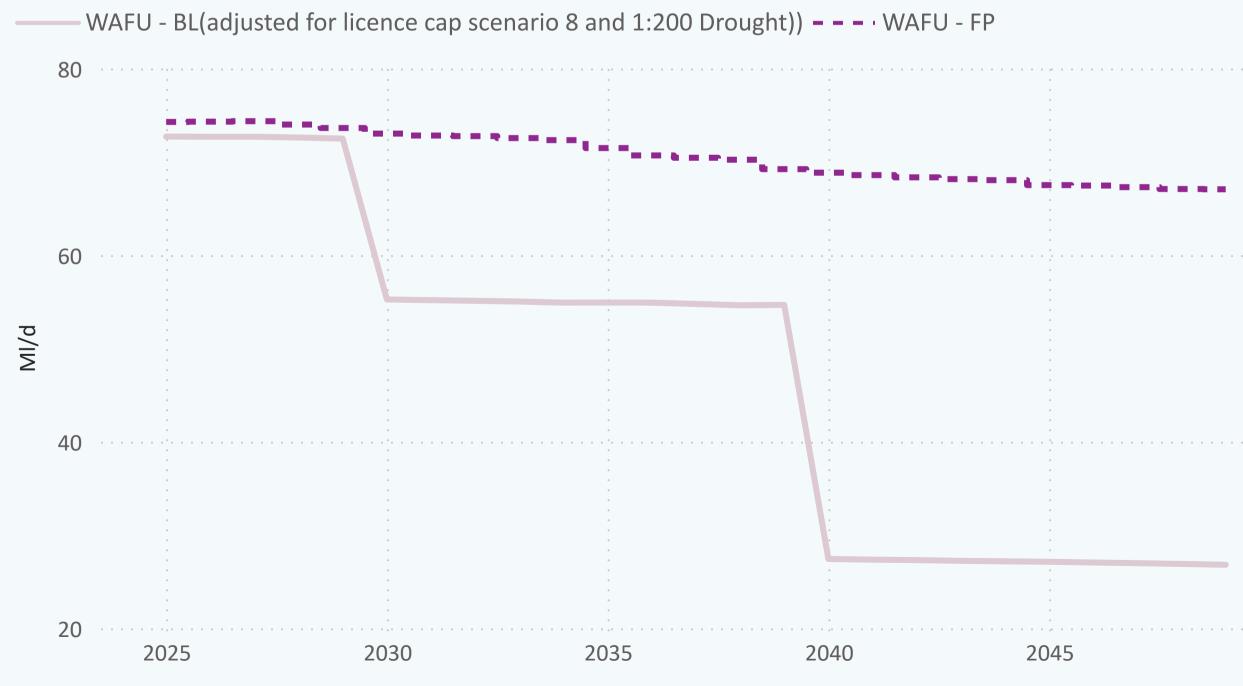
11. Supply Side Strategy

Norfolk Norwich & the Broads

Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	72.5	54.9	54.7	27.2	
WAFU - FP	73.6	72.3	69.2	68.0	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)

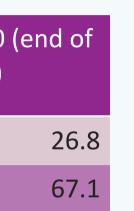


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Norfolk Norwich & the Broads

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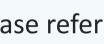


Supply side strategy options.

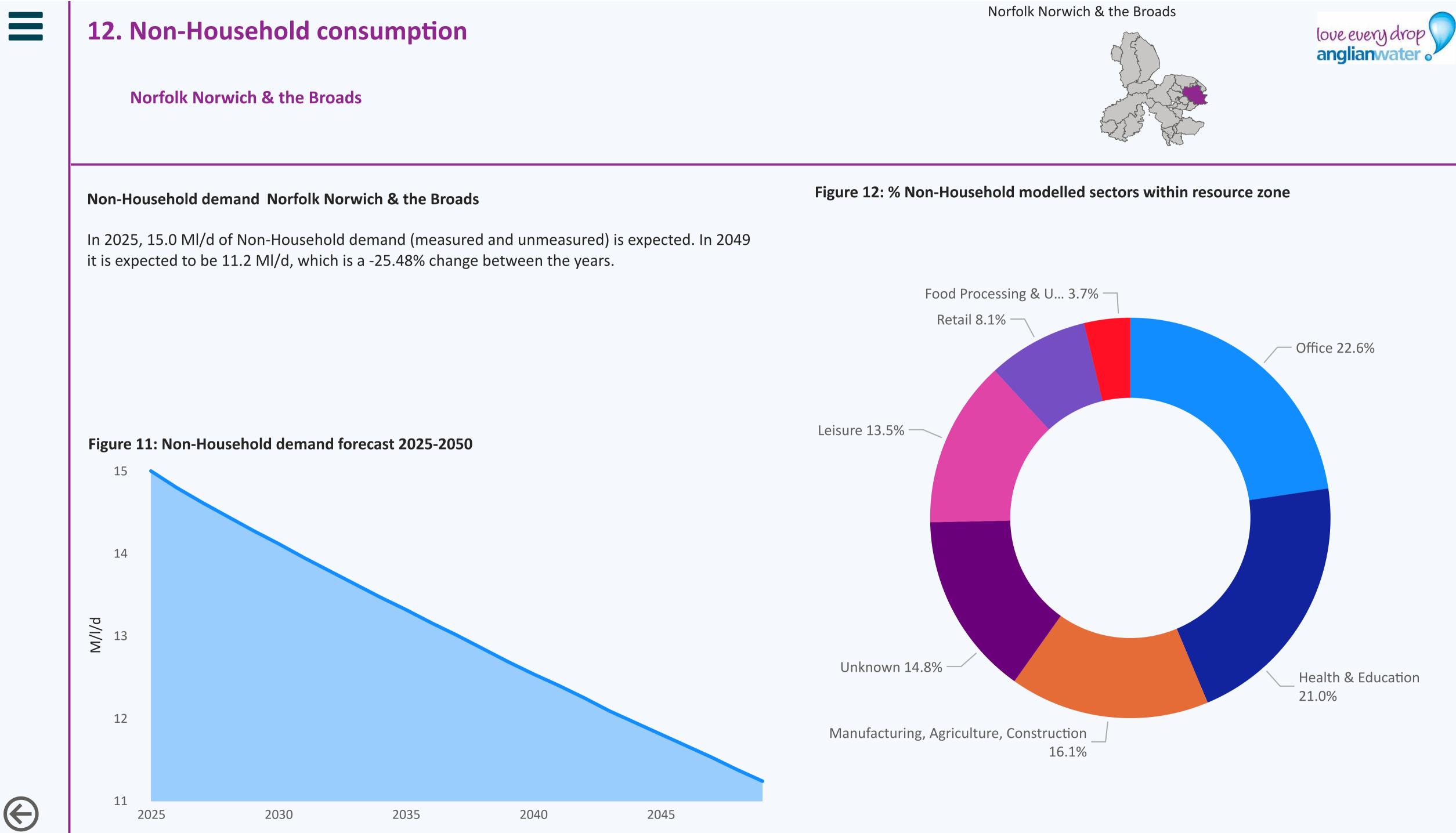
For details on the feasible options list for Norfolk Norwich & the Broads WRZ please refer to the Supply-Side Option Development technical supporting document.

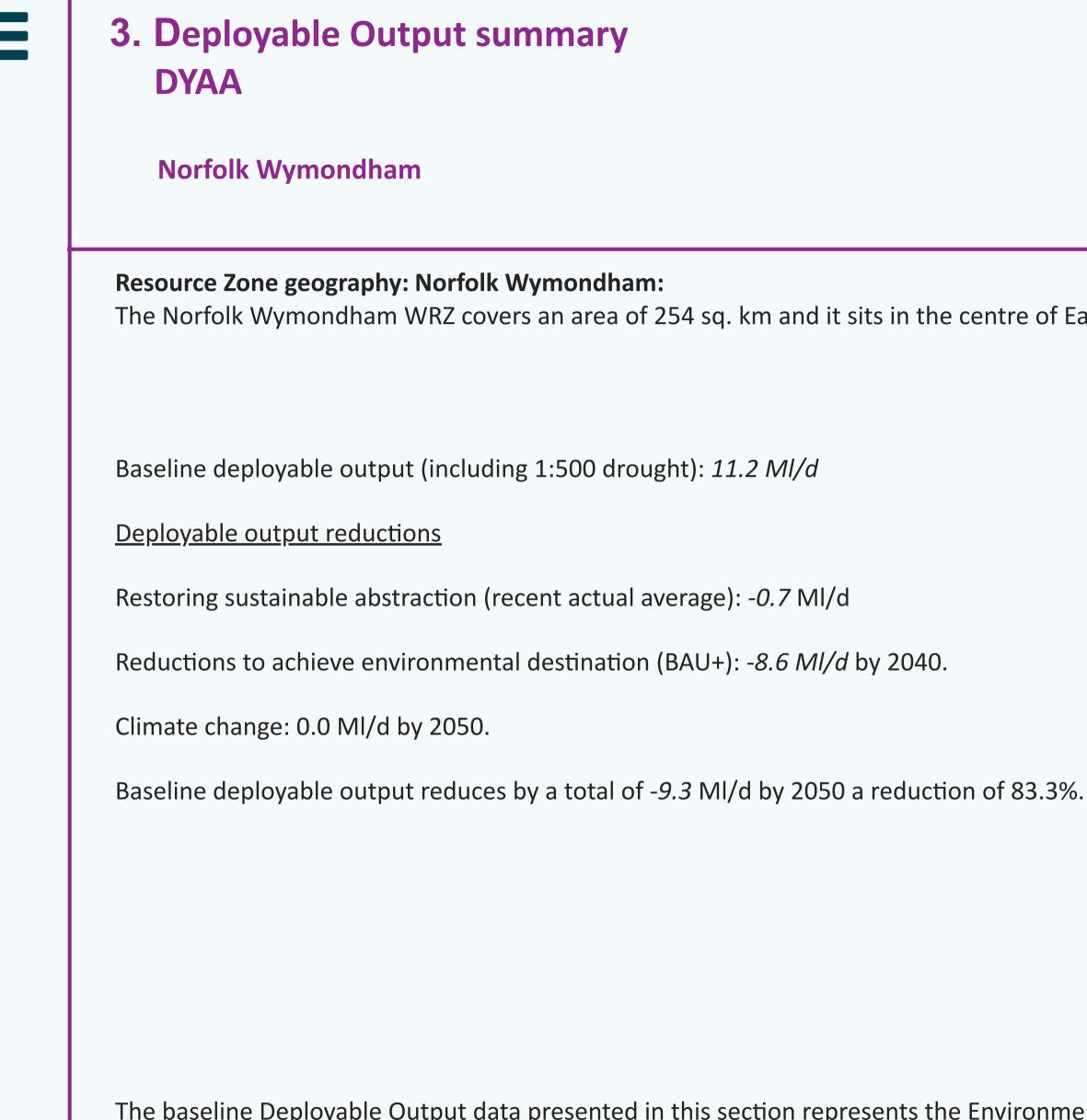
Table11b: Preferred supply side options **Option ID** First Option Name Adjustment to existing potable water export EE10 Adjustment to existing potable water import EI20 Adjustment for Licence cap scenario 8 LC13 Norfolk Bradneham to Norwich and the Broads potable transfer (20 NTB10 MI/d) Bacton desalination (seawater) 25 Ml/d NTB17 OPI3 AMP8 OPI Adjustment











The baseline Deployable Output data presented in this section represents the Environment Agency's preferred sustainability reduction licence cap scenario. This includes recent actual average caps to time limited licences in 2022-24 and caps to all other permanent licences by 2030. The impact of 1:500 drought resilience has also been applied from 2025 rather than the preferred scenario of 2039/2040. These factors apply to the baseline forecast only. For the final plan forecast we have applied our best value scenario for licence caps, which was developed following an iterative process to deliver licence caps as early as possible. The transition to 1:500 drought resilience occurs in 2039/40 in the final plan forecast. Further information is available in the WRMP24 Decision Making technical supporting document, section 6.

Norfolk Wymondham

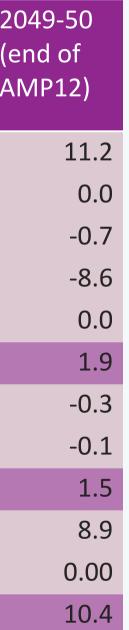


The Norfolk Wymondham WRZ covers an area of 254 sq. km and it sits in the centre of East Anglia. Water is supplied from groundwater abstractions from the Norfolk Chalk aquifer.

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 (/
DO pre forecast changes	11.2	11.2	11.2	11.2	
Change in DO due to climate change	0.0	0.0	0.0	0.0	
OO reductions to restore sustainable abstraction	-0.3	-0.7	-0.7	-0.7	
OO reductions for Environmental Destination	0.0	0.0	0.0	-8.6	
Change in DO from drought measures	0.0	0.0	0.0	0.0	
Final DO	10.9	10.5	10.5	1.9	
Raw water losses (-ve)	-0.3	-0.3	-0.3	-0.3	
Outage Allowance (-ve)	-0.1	-0.1	-0.1	-0.1	
WAFU (own sources)	10.5	10.1	10.1	1.5	
Net Transfers	0.2	0.8	0.4	8.9	
Other benefits	0.31	0.00	0.00	0.00	
Total Water Available for Use	11.0	10.9	10.5	10.5	

Table 3: supply characteristics (all values are MI/d)





4. Population & Housing

Norfolk Wymondham

Over the WRMP period, population in **Norfolk** Wymondham is set to increase from 52520 in 2025 to **59004** in 2049-50 - this is an increase of **12.3 %** over the 25 years.

Table 4a: Population totals (cumulative) by AMP

Year	Total Populatio (000s)
2029-30 (end of AMP8)	53
2034-35 (end of AMP9)	54
2039-40 (end of AMP10)	55
2044-45 (end of AMP11)	57
2049-50 (end of AMP12)	59

Over the WRMP period, property numbers in Norfolk Wymondham are set to increase from **23246** in 2025 to **27537** in 2049-50 - this is an increase of **18.5 %** over the 25 years.

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Table 4b: Property totals (cumulative) by AMP

Year	Total Properties- excl voids (000s)
2029-30 (end of AMP8)	24.193
2034-35 (end of AMP9)	25.047
2039-40 (end of AMP10)	25.896
2044-45 (end of AMP11)	26.710
2049-50 (end of AMP12)	27.537

Norfolk Wymondham

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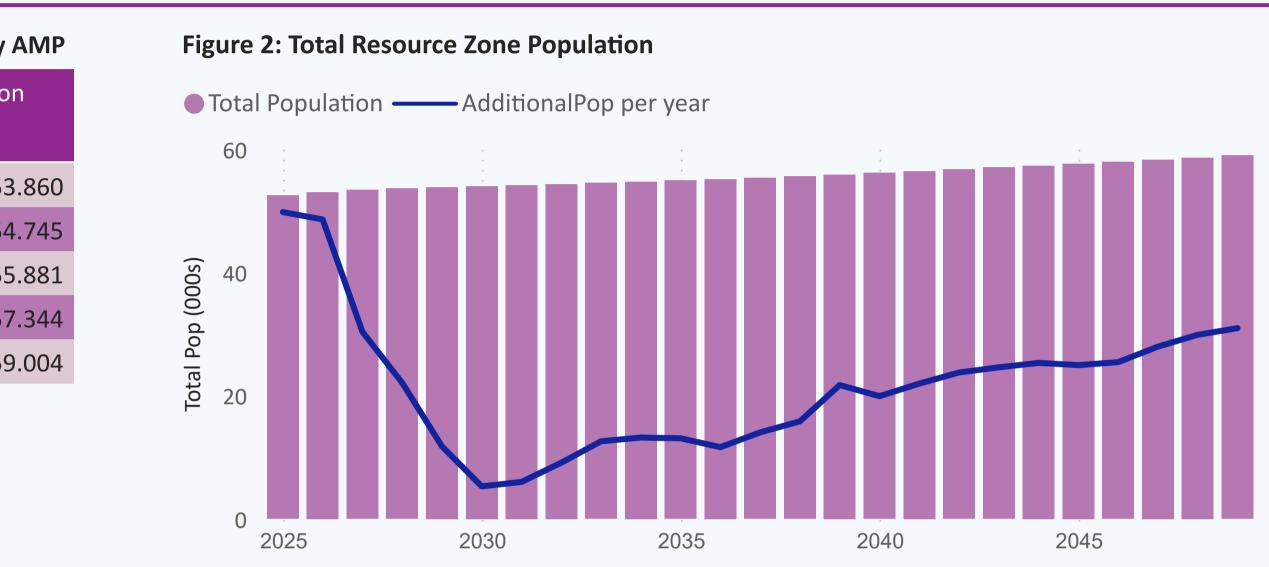
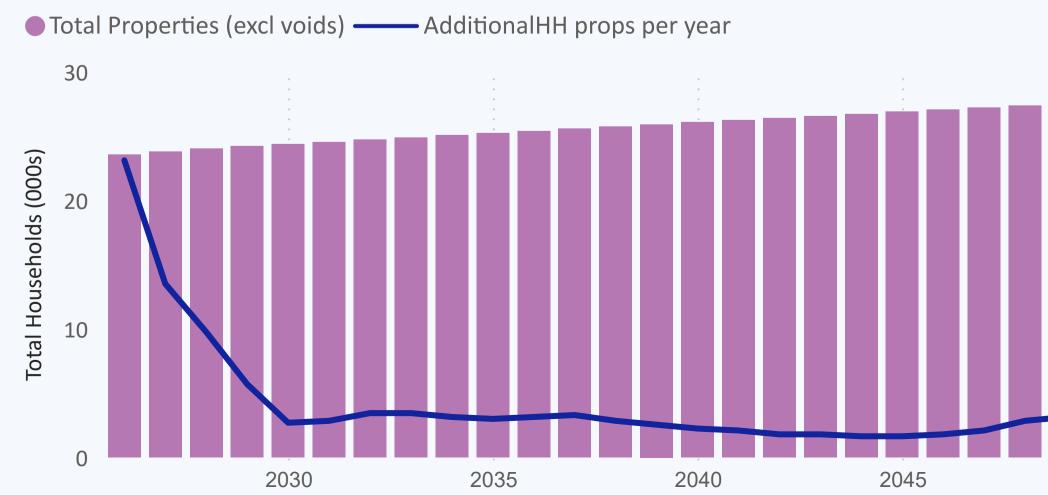
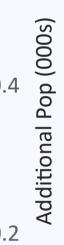


Figure 3: Total Resource Zone Properties (excl. voids)













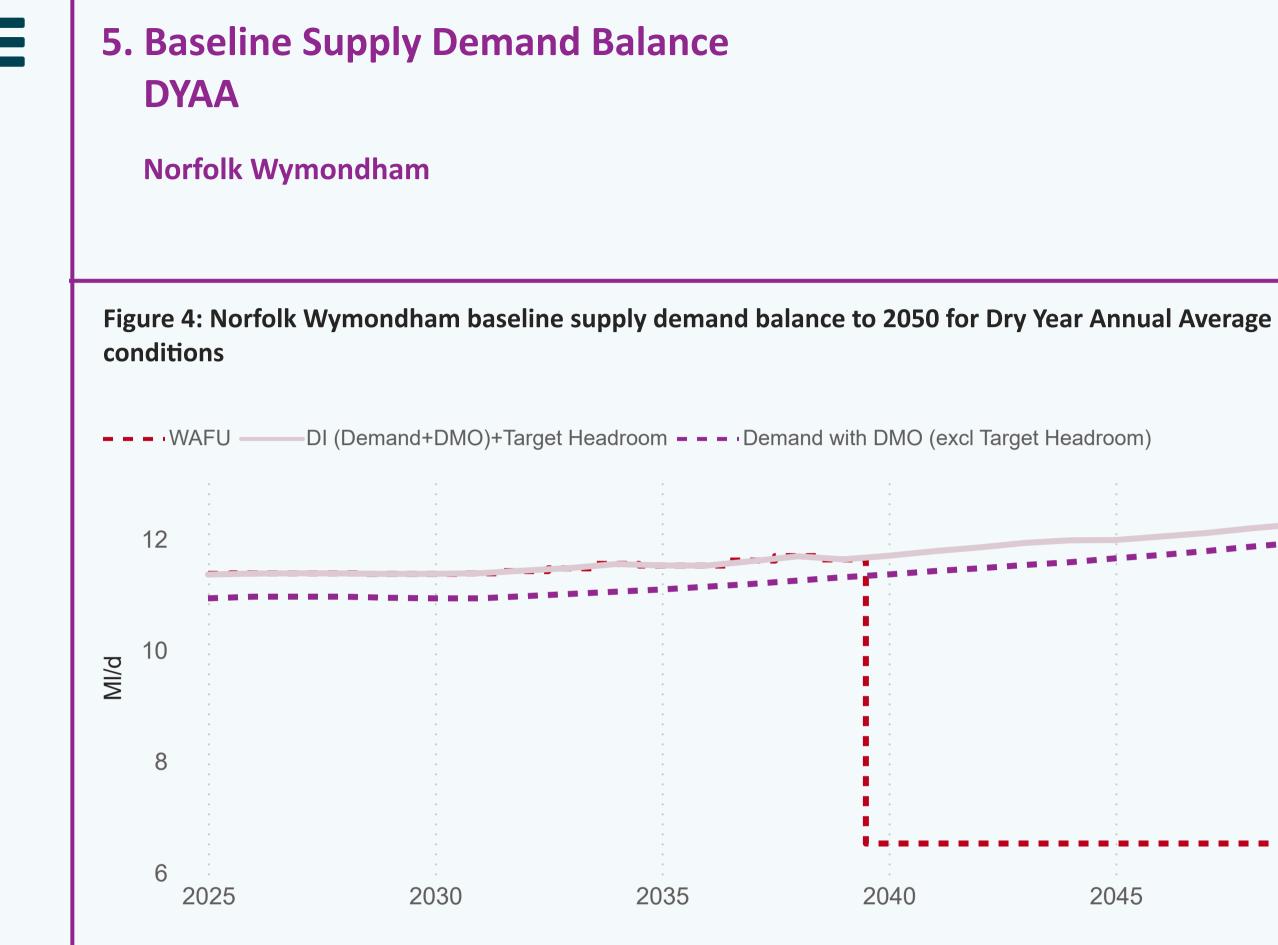


Table 5a: Baseline supply demand balance 2025 - 2050 for DYAA conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	10.5	10.5	10.1	10.1	1.5	1.5
Net Transfers	1.0	1.0	1.0	2.0	5.0	5.0
Total Water Available For Use	11.4	11.4	11.6	11.6	6.5	6.5
Distribution Input	10.9	10.9	11.1	11.3	11.6	11.9
Target Headroom	0.4	0.4	0.5	0.3	0.4	0.3
Supply Demand Balance	0.0	0.0	0.0	0.0	-5.5	-5.7





Table 5b: Baseline demand forecast (without preferred demand management options)

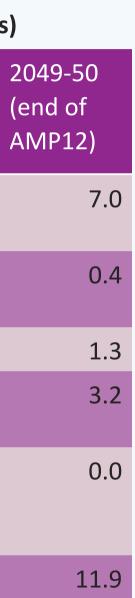
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water delivered measured household	5.7	5.9	6.1	6.4	6.7
Water delivered unmeasured household	1.2	1.0	0.8	0.6	0.5
Total Leakage	1.4	1.3	1.3	1.3	1.3
Water delivered measured non-household	2.7	2.7	2.8	2.9	3.0
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	10.9	10.9	11.1	11.3	11.6

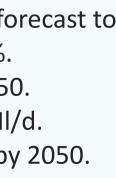
DYAA BL supply demand summary: Norfolk Wymondham

Baseline Supply Demand Balance: This zone is expected to go into deficit by 2031 (under the preferred baseline scenario - as described in section 3.3).

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 6.9 MI/d in 2025 to 7.4 MI/d in 2050, a percentage change of 7.4 %.
- Baseline Leakage: is forecast to change from 1.4 Ml/d in 2025 to 1.3 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 2.7 Ml/d to 3.2 Ml/d.
- Baseline Distribution Input: is expected to change from 10.9 MI/d to 11.9 MI/d by 2050.







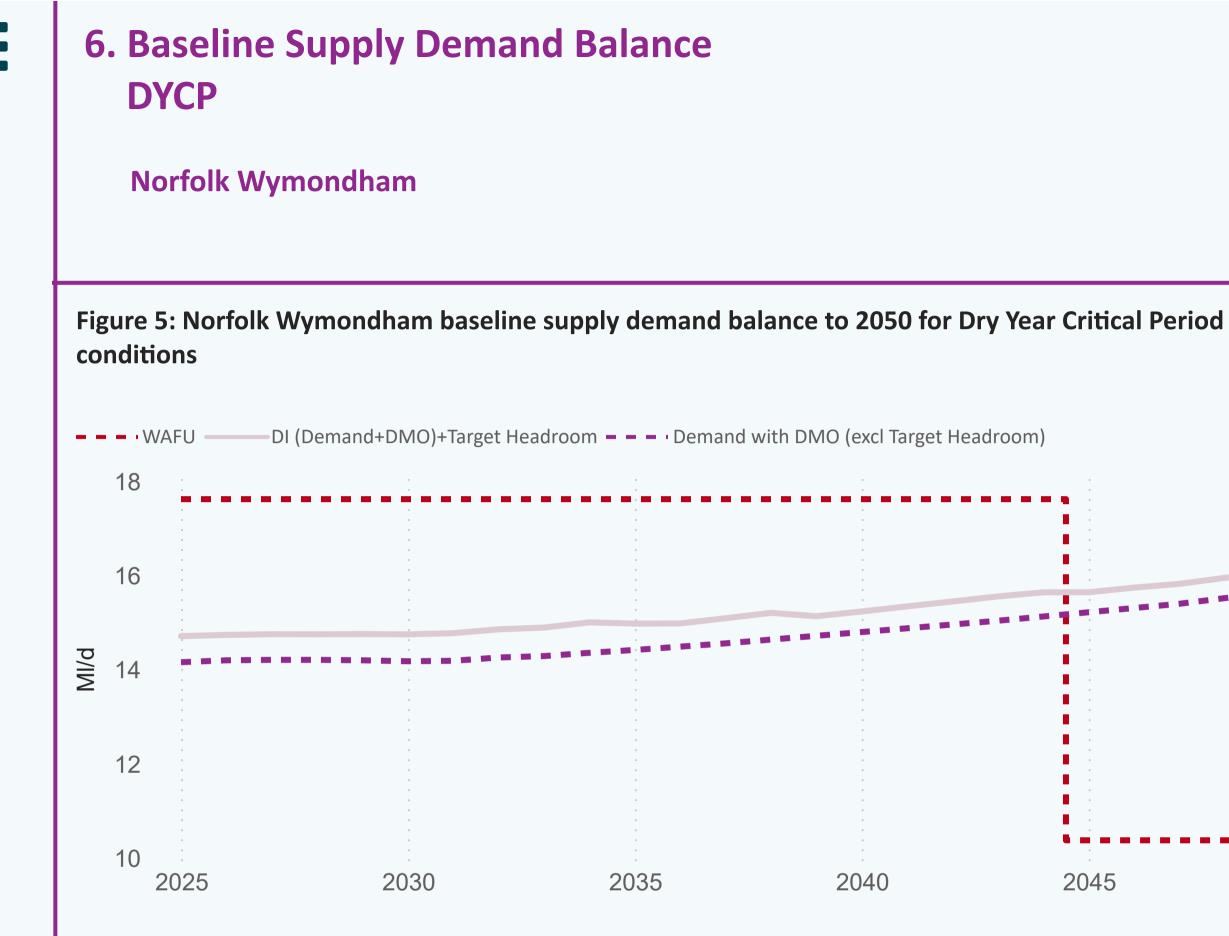


Table 6a: Baseline supply demand balance 2025 - 2050 for DYCP conditions

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)
Water Available For Use	12.6	12.6	12.6	12.6	12.
Net Transfers	5.0	5.0	5.0	5.0	5.
Total Water Available For Use	17.6	17.6	17.6	17.6	17.
Distribution Input	14.2	14.2	14.4	14.7	15.
Target Headroom	0.6	0.6	0.6	0.4	0.
Supply Demand Balance	2.9	2.9	2.6	2.5	2.
					2.







Table 6b: Baseline demand forecast with DYCP conditions (without preferred demand management options)

	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2 ((
Water delivered measured household	7.6	7.8	8.1	8.6	9.1	
Water delivered unmeasured household	1.6	1.4	1.1	0.8	0.6	
Total Leakage	1.4	1.3	1.3	1.3	1.3	
Water delivered measured non-household	3.6	3.7	3.8	3.9	4.1	
Water delivered unmeasured non-household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	14.2	14.2	14.4	14.7	15.1	

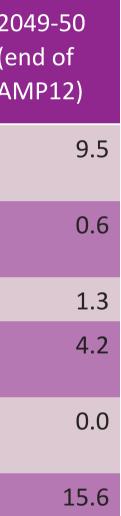
	2049-50 (end of AMP12)	
6	5.4	
0	5.0	
6	10.4	
1	15.6	
5	0.4	
0	-5.7	

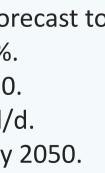
DYCP BL supply demand summary: Norfolk Wymondham

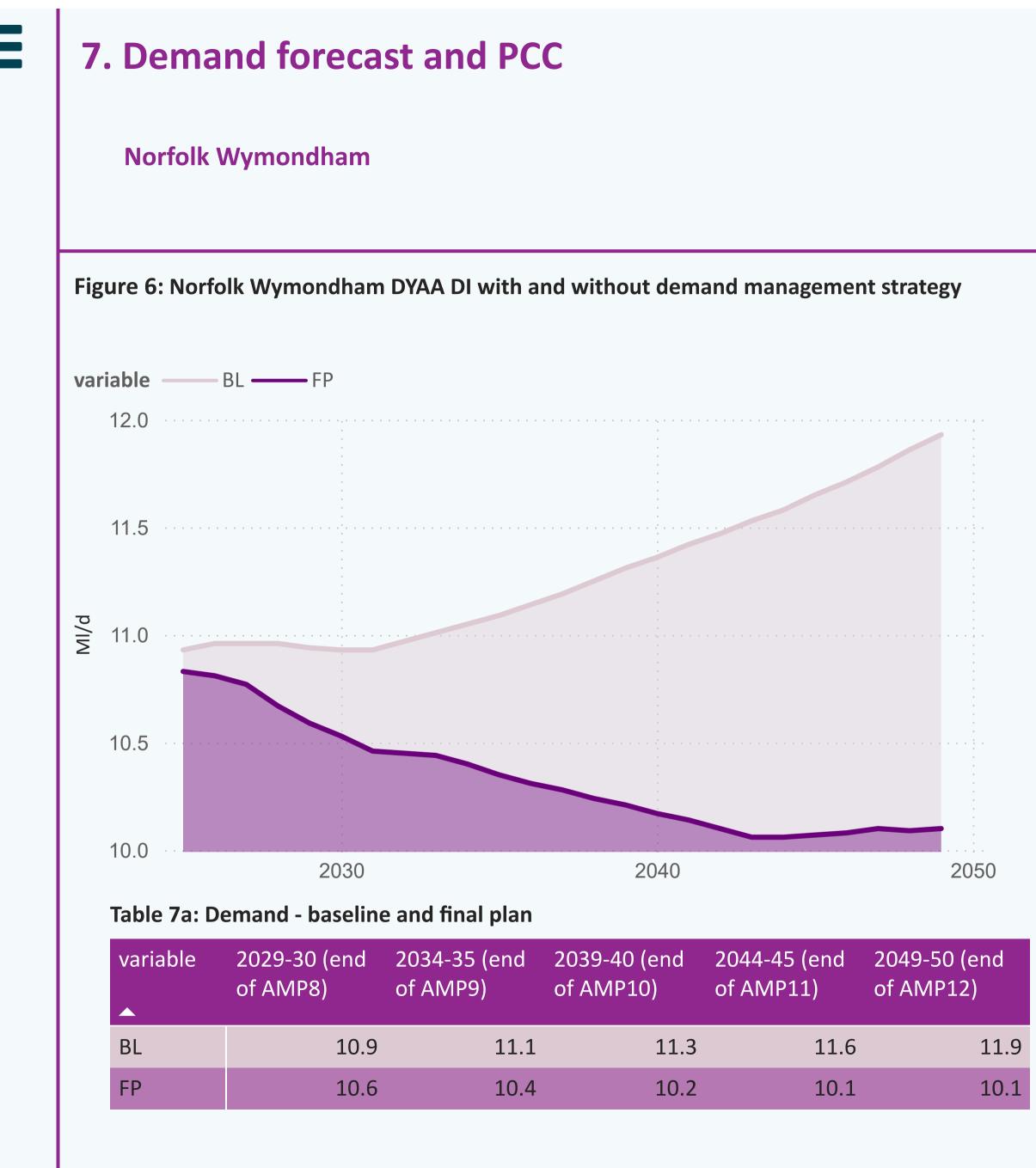
Baseline Supply Demand balance: This zone is not expected to go into deficit

- Demand Forecast: Baseline household demand (measured and unmeasured) is forecast to change from 9.2 MI/d in 2025 to 10.0 MI/d in 2050, a percentage change of 8.9 %.
- Baseline Leakage: is forecast to change from 1.4 Ml/d in 2025 to 1.3 Ml/d by 2050.
- Baseline Non-Household demand: is expected to change from 3.6 Ml/d to 4.2 Ml/d.
- Baseline Distribution Input: is expected to change from 14.2 MI/d to 15.6 MI/d by 2050.

Nb. 'Deficit' is one outcome of the calculation WAFU minus Distribution Input (including Target Headroom).









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Demand Norfolk Wymondham (see Table 7a)

Baseline demand is expected to increase from 10.9 (MI/d) in 2025 to 11.9 (MI/d) in 2050. With demand management options in place, demand is expected to be 10.1 (MI/d).

PCC Norfolk Wymondham (see Table 7b)

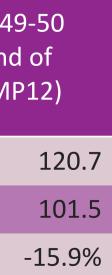
Per Capita Consumption (PCC) in the base year 2025/26 is 116.1 (l/h/d) measured and 201.7 (l/h/d) unmeasured.

The weighted average PCC (I/h/d) comes in at 125.1 (I/h/d) in 2025/26. This is forecast to fall to 101.5 (I/h/d) in the Final Plan forecast as demand management option savings are realised and customers switch from unmeasured to measured status

Table 7b: DMO strategy Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	204 (en AM
BL demand forecast(DYAA)	121.6	120.4	120.4	120.5	
FP demand forecast(DYAA)	118.6	114.2	108.3	103.4	
% change BL to FP	-2.4%	-5.2%	-10.1%	-14.2%	





8. Demand management options

Norfolk Wymondham

Regional overview:

Across the entirety of the Anglian Water region our demand management strategy will comprise three strongly interlinked programs:

Water metering program:

• We intend to complete our current smart meter rollout which will replace our entire meter stock over 10 years (2 AMPs), noting that 1.1M smart meters will be installed across Anglian Water by 2025. The information resulting from 'smart metering' will help inform our customers regarding their water usage and will assist in our ability to influence this behaviour. It will also help with our ability to detect leakage, significantly reducing plumbing losses and customer supply pipe leaks.

Leakage reduction

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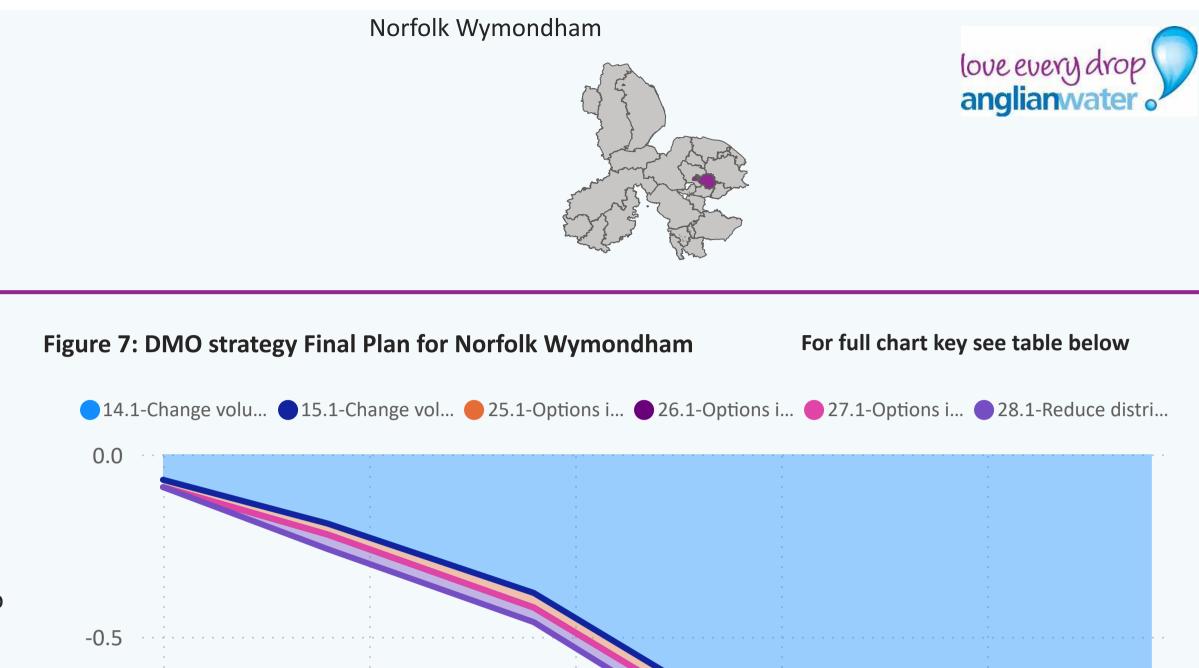
• Our aim is to reduce leakage by more than 45Ml/d from 2025 to 2050 across the whole Anglian Water area, building upon our ambitious program of leakage reduction in AMP7 (14% reduction of more than 27MI/d across the region by 2025).

Water efficiency measures

• New technologies and interventions will help promote the careful use of water. Additional water efficiency programs will include: the promotion of 'Smart' devices; further development of our Multiutility web-portal; garden advice; support for vulnerable customers with plumbing loss and cspl; Community reward schemes. As part of our WRMP24 we have developed and included 'water efficiency visits' and leakage reduction measures for our Non-Household customers.

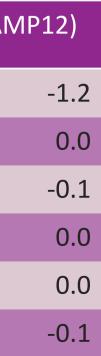
Table 8: DMO strategy Final Plan for Norfolk Wymondham

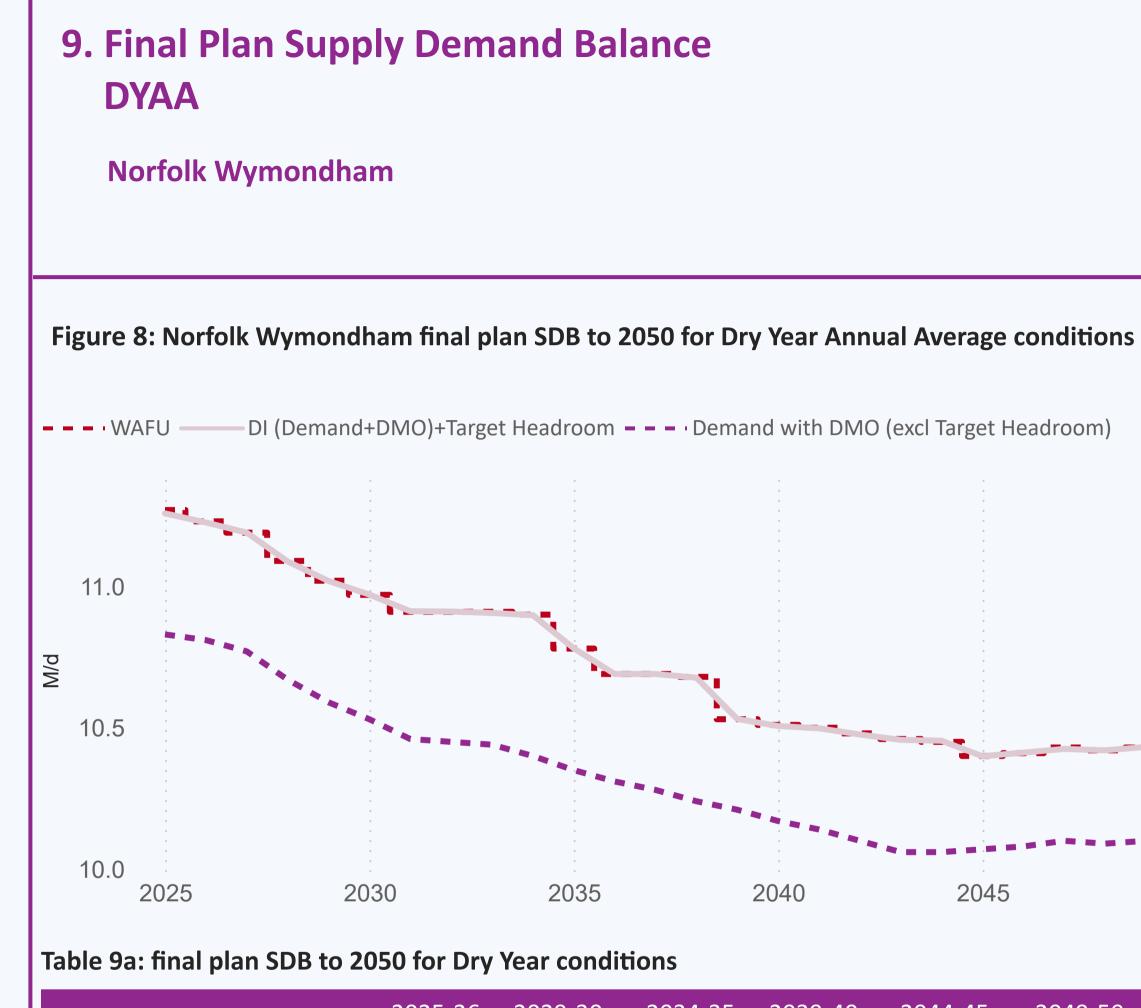
	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AN
14.1-Change volume delivered to measured households(-ve)	-0.2	-0.4	-0.7	-1.0	
15.1-Change volume delivered to unmeasured households(-ve)	0.0	0.0	0.0	0.0	
25.1-Options impacting on measured Household - USPL (-ve)	0.0	0.0	0.0	-0.1	
26.1-Options impacting on unmeasured Household - USPL (-ve)	0.0	0.0	0.0	0.0	
27.1-Options impacting on Void properties - USPL (-ve)	0.0	0.0	0.0	0.0	
28.1-Reduce distribution losses (-ve)	0.0	0.0	-0.1	-0.1	











	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 (end of AMP12)
Water Available For Use	10.8	10.8	10.1	10.1	1.5	1.5
Net Transfers	0.6	0.2	0.8	0.4	8.9	8.9
Total Water Available For Use	11.3	11.0	10.9	10.5	10.5	10.4
Distribution Input	10.8	10.6	10.4	10.2	10.1	10.1
Target Headroom	0.4	0.4	0.5	0.3	0.4	0.3
Supply Demand Balance	0.0	0.0	0.0	0.0	0.0	0.0

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Table 9b: Final Plan demand foreca options)	st for DYAA 2025-26 (start of AMP8)	conditions (2029-30 (end of AMP8)	2034-35 (end of AMP9)	rred deman 2039-40 (end of AMP10)	d managem 2044-45 (end of AMP11)	nen 2((e Al
Water delivered measured household	5.6	5.7	5.7	5.7	5.7	

Water delivered measured household	5.6	5.7	5.7	5.7	5.7
Water delivered unmeasured household	1.2	1.0	0.8	0.6	0.5
Total Leakage	1.3	1.3	1.2	1.2	1.2
Water delivered measured non- household	2.7	2.6	2.6	2.6	2.6
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0
Distribution Input	10.8	10.6	10.4	10.2	10.1

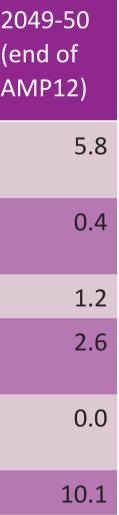
DYAA FP supply demand summary: Norfolk Wymondham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 6.8 MI/d in 2025 to 6.2 MI/d in 2050, a percentage change of -8.8 %.
- Final Plan Leakage is forecast to change from 1.3 Ml/d in 2025 to 1.2 Ml/d by 2050.
- Final Plan Non-Household demand is expected to change from 2.7 Ml/d to 2.6 Ml/d.
- Final Plan Distribution Input is expected to change from 10.8 Ml/d to 10.1 Ml/d by 2050.



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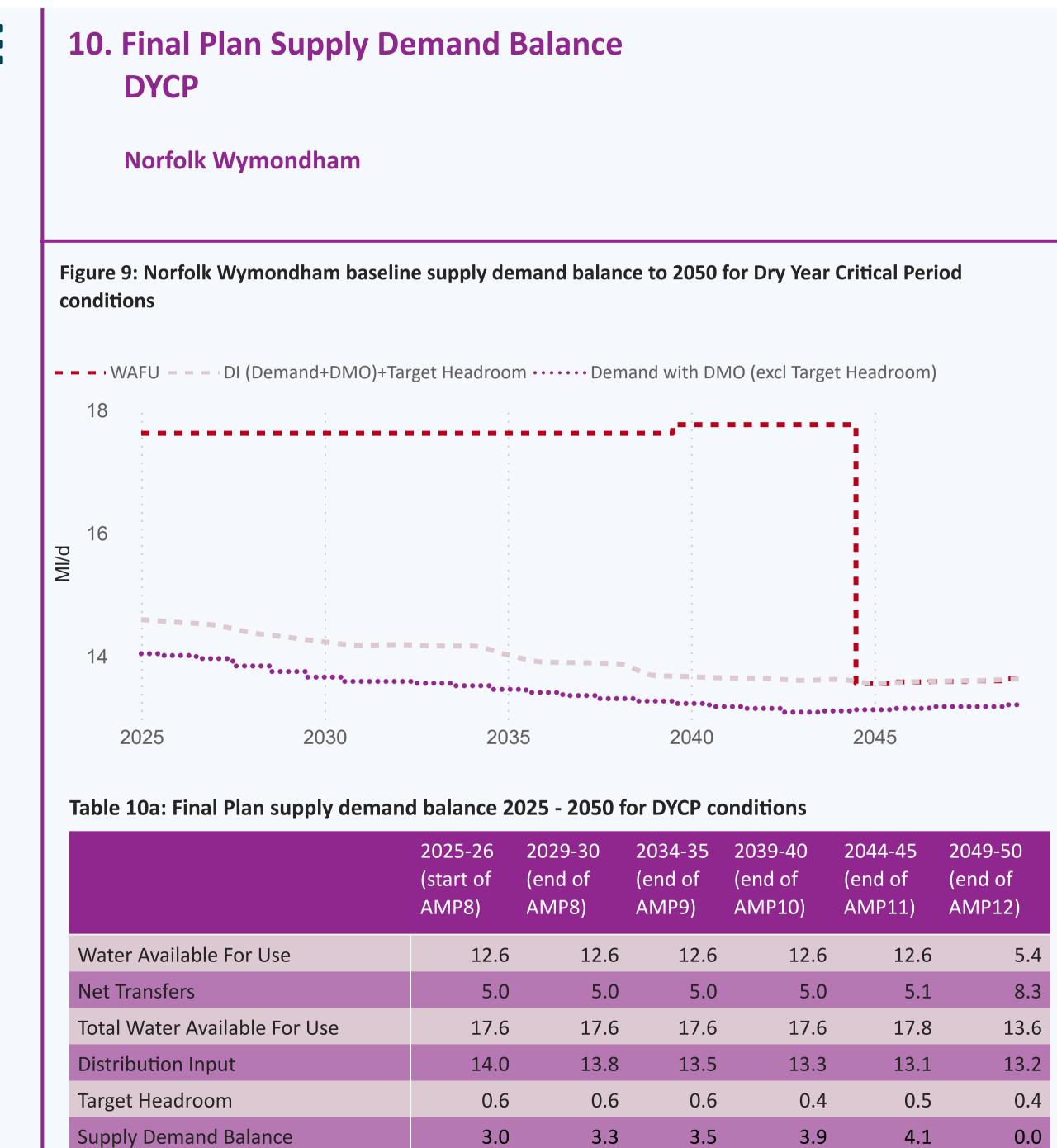




Table 10b: Final Plan demand forecast for DYCP conditions (with preferred demand management options)

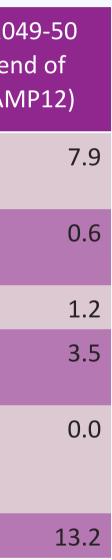
	2025-26 (start of AMP8)	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	20 (e AN
Water delivered measured household	7.5	7.6	7.6	7.6	7.7	
Water delivered unmeasured household	1.6	1.4	1.1	0.8	0.6	
Total Leakage	1.3	1.3	1.2	1.2	1.2	
Water delivered measured non-household	3.6	3.5	3.5	3.5	3.5	
Water delivered unmeasured non- household	0.0	0.0	0.0	0.0	0.0	
Distribution Input	14.0	13.8	13.5	13.3	13.1	

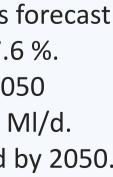
DYCP BL supply demand summary: Norfolk Wymondham

The zone is in balance.

- Demand Forecast: Final Plan household demand (measured and unmeasured) is forecast to change from 9.1 MI/d in 2025 to 8.4 MI/d in 2050, a percentage change of -7.6 %.
- Final Plan Leakage: is forecast to change from 1.3 Ml/d in 2025 to 1.2 Ml/d by 2050
- Final Plan Non-Household demand: is expected to change from 3.6 Ml/d to 3.5 Ml/d.
- Final Plan Distribution Input: is expected to change from 14.0 Ml/d to 13.2 Ml/d by 2050.







11. Supply Side Strategy

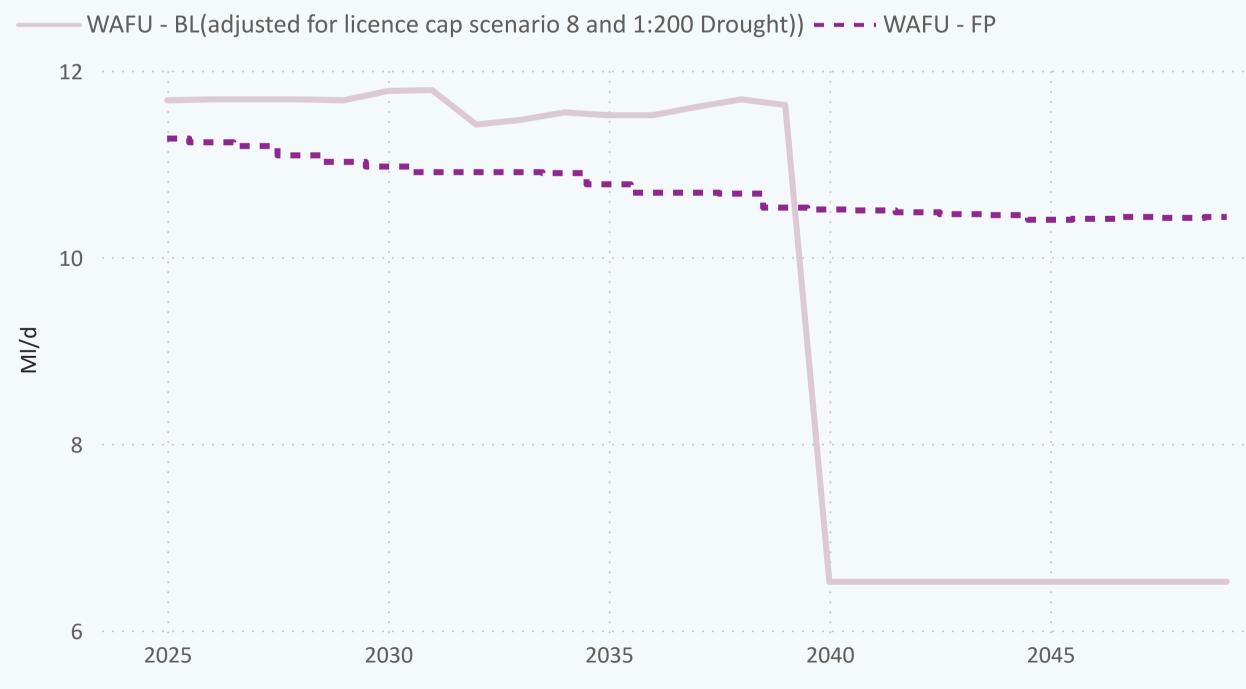
Norfolk Wymondham

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Table 11a: Total Water Available for use Baseline and Final Plan

	2029-30 (end of AMP8)	2034-35 (end of AMP9)	2039-40 (end of AMP10)	2044-45 (end of AMP11)	2049-50 AMP12)
WAFU - BL	11.7	11.6	11.6	6.5	
WAFU - FP	11.0	10.9	10.5	10.5	

Figure 10 Water Available for Use (WAFU) - baseline (BL) and final plan (FP)



Norfolk Wymondham







Supply side strategy options.

For details on the feasible options list for Norfolk Wymondham WRZ please refer to the Supply-Side Option Development technical supporting document.

Table11b: Preferred supply side options

Option ID	First Option Name
EI11	Adjustment to existing potable water import
LC14	Adjustment for Licence cap scenario 8
NWY1	Norwich and the Broads to Norfolk Wymondham potable transfer (5 Ml/d)

