

PREPARED FOR NIC JOHNSON

November 2021



CONTENTS





Moving forwards



DCWW is developing its 2024 Water Resource Management Plan addressing the supply demand balance in 2025-2050, but also considering longer term planning to 2080.

In order to support the business planning, there is a need to collect feedback from customers to understand their views, preferences and priorities on demand-side and supply-side response options. To answer these questions, we have undertaken 2 phases of research:

(1	

A quantitative survey with n=800 DCWW customers, representative of those in Wales, to gather robust customer opinion on supply and demand side solutions

Our response comprised n=700 online interviews and n=100 CATI (computer assisted telephone interviews), to maximise the opportunity for different customer groups to take part 2

A qualitative online community with 30 DCWW customers, to explore in depth rationale behind customer preferences and priorities

This comprised an online community lasting one week (part of a wider 4-week community), with c.90 mins of activities, enabling us to start high level and build towards a more informed viewpoint

Our qualitative sample includes a good cross-section of DCWW customers

Sample demographics

(Total sample, n=29)

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A.V	APPROACH	GENDER	LIFE STAGE
 All were: Aged 18+ Living in DCWW regions Customers of DCWW 	1 week of a 4-week online community	x16 x13	 5x 18-22 live with parents 3x Pre-family 8x Family 8x Empty nester/retired 5x Vulnerable
LOCATION	RURALITY	SOCIAL	WATER METER
Spread across: • Clwyd/Gwynedd • Powys • Dyfed • Glamorgan/Gwent • Hereford/Chester	9x Urban/suburban 8x Semi-rural 12x Rural	5x social tariff 24 x non social tariff	11x have a water meter 18x no water meter

Our quantitative sample is representative of the Welsh population

Sample demographics

(Total sample, n=807)

01



01

Key insights

Customers are often surprised to see that there is potential for water shortfall in Wales, and at how little rainfall is currently captured for water supply purposes. This reflects a knowledge gap around the impact of climate change on water as a resource in Wales.





Solutions that customers prioritise to address shortfall focus on doing more with existing resource rather than building new infrastructure expanding storage via disused reservoirs, increasing water transfers, tackling network leakage, and DCWW helping them to reduce their consumption.

Bills to pay

Customers accept that this

side response will result in bill

increases. They are prepared

to help fund these measures,

caution around ensuring that bills remain affordable given

but also sound a note of

the current cost of living

'crisis'.



Despite very little recent experience of restrictions on water use, customers in Wales claim they will accept their wider civic responsibilities during times of drought. They prioritise non-essential usage bans, and even rationing of water, over DCWW taking more from the environment.

Views and understanding of water shortfall





02

At an uninformed level, most believe there is sufficient water in Wales, with knowledge of the impact of climate change on water supply not yet widespread

Enough water in Wales because...



Potential shortfall because...

Majority view

- It's always raining!
- Water is something we take for granted
- Have not heard info to the contrary
- See big reservoirs in Wales
- Population is fairly careful with water
- Seasonal shortfall is always expected to an extent, so we should be able to cope with it
- Can pull water in from other regions if needed

Minority view

- Unstable weather and global warming
- Population growth and more new housing
- Leakage in old pipework
- Heavy industrial and farming usage
- Trading water with English regions
- Increase in tourism during pandemic
- More working from home during pandemic
- Consumers being wasteful with water

"As far as I know there is sufficient water. It rains enough in Wales so I assume we've got enough water."

"I've not heard or read anything about there not being sufficient water to meet needs, so it's not something I would have thought about."

"Well I don't really know what the situation is but do hear every now and then that we could be struggling in years to come as the population grows."



Whilst many claim to be trying to lower their usage, this isn't due to a belief that Wales is at risk of a significant future water deficit – it is more about mindfulness towards wastage

Water usage (Total Sample)

WHERE WOULD YOU PLACE YOURSELF ON THIS SCALE?



"We try our best to be mindful of waste, pollution, etc. to do our bit to help preserve the environment."

"We recycle, try and reduce electricity and water usage, i.e. not using lights when not needed, energy saving bulbs, limit the time with the radiator on."



That customers often don't recall recent water restrictions in Wales only serves to downplay any sense of there being a significant water deficit in future

Hosepipe ban (Total Sample)



The is very little recollection of water restrictions having been applied in Wales, beyond an occasional hosepipe ban, since the summer of 1976

"Hosepipe bans in the past had no effect on me at all, not really an inconvenience. But not all my neighbours abided by the ruling."

"I am old enough to remember the drought of 1976, consequently I am aware water restrictions can impact on family life. Thankfully I have not experienced anything like this since."

LAST TIME HEARD OF A HOSEPIPE BAN IN THEIR AREA...



B4. When was the last time you heard a hosepipe ban was being considered in your area? Base: Total sample (xxx) B5. When you heard a hosepipe ban was being considered, how much did you change your water usage because of this, if at all? Base: Total sample (804); Those who remember a hosepipe ban (444)



Upon exposure to some of the detail on water shortfall in Wales, there is particular surprise that rainfall captured is only 3% and that two areas already have water deficit forecast

Online self-investigation

From a variety of online sources, customers quickly discover more about the impact of climate change and increasing frequency of drought periods in Wales – **for many this is new news**



WRMP19 summary

Upon exposure to the WRMP19 summary, customers learn more about the specifics of shortfall and are surprised in particular by:

- 1. 97% of rainfall not harvested is a shocking figure, particularly in comparison to some other regions
- 2. Water deficit for Tywyn and Pembrokeshire though they welcome a cost effective solution for Tywn and Pembrokeshire via new abstraction point
- 3. 20% decrease in demand sounds positive
- 4. DCWW making the **environment a high priority** but balanced against financial considerations
- 5. Minority find out about NFP status for the first time

02

The DCWW drought plan is seen as a comprehensive, considered, fair and reassuring document and gives customers confidence that they will not be without water

Perceptions of the DCWW drought plan

Dŵr Cymru Welsh Water
Final
Drought Plan 2020
Executive Summary
January 2021
dwrcymru.com

- ✓ Clear steps and processes
- ✓ Includes lots of communication to customers at each stage
- Targeting leakage is a high priority
- ✓ Sufficient notice given to customers
- ✓ Banning all non-essential use during severe drought
- Includes education to advise customers on what is essential use
- Builds on previous mistakes/learnings = transparent
- ✓ Feels very customer focused
- ? Unclear how it would be policed
- Would need to be some more customer-facing comms
- Roadshows don't feel as they have big enough reach

It should be noted that these are not customer reactions gathered 'in the moment' of drought conditions, during which responses may differ

"It seems to be a well thought out and strategic plan based on previous droughts and new ways of measuring supply vs demand. I would be happy with the restrictions if required."

"I find the measures sensible and reassuring. I would be prepared to accept all these measures as they are logical and common sense for the good of us all."

"I would be behind these strategies if they were required because they aid not only myself, but also everyone who lives in our area. If serious restrictions were in place then it would be selfish to go against the bans." 02

Customers claim they would accept drought restrictions for outdoor use, and in times of severe drought claim preference for water rationing over bill increases

General drought restrictions that customers claim they would accept

Limits on non-essential water use, defined as use for:

- Gardens
- Hot tubs and swimming pools
- Washing cars

Some also indicate they would be prepared to go further:

- reduced appliance usage e.g. dishwasher, washing machine
- small reduction in water pressure across the network

But vulnerable customers do express concern about the impact on their day-to-day needs

Customer claimed preferences during times of severe drought

Most express preference for water rationing over bill increases:

- Feels like the easiest and fastest way to conserve water
- A temporary inconvenience (the assumption is that rationing would only be for a very short period of time weeks not months)
- Accepting of this if absolutely necessary, providing sufficient notification is given
- Shift workers concerned about water being off

However, families are less keen on water rationing and worry about how they would cope

Paying to fix infrastructure feels like a very long term project and expensive for customers

• Particularly in the context of the cost of living crisis

"I think that by putting the bills up it would hit me hard. But I would be prepared to go with using water at certain times of day – I would just fill up bottles."

"I would say hosepipe bans, filling paddling pools etc. would be acceptable in the first instance in a time of drought."



Relish There is a widespread assumption that leakage is a major issue across the network due to the ageing infrastructure

Uninformed customer perceptions about water leakage

Generally thought to be a sizeable problem, and customers guess that anything between 5%-40% of water is being lost to leakage

As it is underground, the perception is much of the leakage goes unnoticed and thus accumulates - sometimes leading to flooding

Old infrastructure believed to be the root cause

Felt to be very wasteful of water that is drawn from the environment



Billing – widely believed to be a contributory factor to water bill increases over time

Shortfall – logic dictates that leakage must be a contributor to shortfall and it feels more addressable than climate change

Environment – seems likely to be having an unbalancing effect on eco systems *"I think leakage is a huge problem across the Welsh Water network from both mains burst pipes and domestic burst pipes."*

"Leakage is definitely a problem and it will for sure hike up customer's bills, because the money has to come from somewhere."

"It is scary to think water may be wasted in leaks when water is becoming more and more scarce." Some express surprise and shock at learning about the Economic Level of Leakage, which suggests there is an accepted (and perceived to be high) level of wastage

Views on the DCWW approach to tackling leakage



- E.L.L. is shocking to customers conceptually, though they are reassured that DCWW is looking to make 15% reductions beyond the E.L.L.
- Overall, the combination of measures feels like a strategy that shows commitment from DCWW and is reassuring for customers to hear
- Drone and satellite technology feels innovative and is reassuring to hear
- Free repairs and home audits feels like above and beyond customer service
- **Meters** identifying leaks can be new (and interesting) benefit to customers

"I didn't realise that they just let some leaks go as it is cheaper than repairing them. How can this be right?"

"This [E.L.L.] just seems upsetting when you think about the countries that are desperate for water then we are letting it leak away because it's the cheaper option."

"I'm pleased to see they are committed to minimising leaks by 15%, and using new technology is a great idea as things like drones will give an angle not previously able to be seen."



There are also some credibility issues with the wider industry leakage targets; these fuel perceptions the sector is not stretching itself enough

Customer thoughts on leakage statistics on Discover Water

When reviewing how water companies are performing against leakage targets on Discover Water, the fact that almost all are meeting or very close to meeting their targets makes customers wonder how credible the targets actually are

Nonetheless, results feel fairly positive for DCWW – on target and much less leakage than some other regions

Overall leakage numbers presented through this website though are fairly shocking – e.g. 1,182 Olympic swimming pools every day across England and Wales

< Go Back 2019-20 Actual 2019-20 Target Affinity Anglian Bournemouth Bristol 37.2 43.0

Cambridg

Dŵr Cymru Welsh Water

13.5

169

Find out how water companies in England & Wales are performing

"Most of the companies are around their target. However, I'd have thought they would all be aiming for lower." "I was pleased that DCWW was significantly better than other big suppliers... but the target is still a lot of wasted water." "I'm amazed that companies are hitting their targets so consistently across the board. This makes me think that the targets aren't pushing the companies enough."

Discover Water.co.uk



Relish For addressing future shortfall, customers want DCWW to evaluate all options thoroughly, including both demand reduction and increase in supply

How do DCWW resolve any future forecast water shortfall? (un-costed)



"Consider trying to make use of more than 3% of the rainfall. Is this something that would seriously impact the environment if you did so?"

"Educate customers how to use water responsibly through all year round adverts, rather than just in periods of drought."

"Could a desalination plant be something that is cost effective if there are likely forecast shortfalls in forthcoming years?"

UNDERSTANDING WATER SHORTFALL – What does this mean for WRMP24?

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Water shortfall is not recognised as a potential issue by many people in Wales – partly because there have been so few water restrictions in recent years, but also because there is a knowledge gap around the specifics of how climate change is affecting water supply.

Current in-home water reduction behaviour is born through a mindset of reducing waste (and sometimes reducing bills) rather than necessarily understanding the potential for future shortfall – but it is still encouraging that customers are often mindful of how they use water within the home.

Customers think leakage is a big contributor to potential shortfall and expect DCWW to show leadership on tackling leakage across the network. This feels like part of a 'social contract' in which DCWW leads on leakage, and in turn customers work to reduce their consumption.

Whilst customers do not want their water use restricted, they acknowledge their civic duty/responsibility in times of water shortage and claim they would accept non-essential usage restrictions, and in times of severe drought would even accept water rationing.

Demand-side response options





Demand-side measures shown in quantitative research

	Environmental impact	Effectiveness during drought	Cost to customer
Working with customers to raise awareness of how to reduce water usage	Good	Poor	Good
	<u>.</u>	۲	
Working with policy makers to help make homes more water efficient	Good	Poor	Medium
	<u>.</u>	•	
Reducing water leaks inside customer homes	Good	Medium	Poor
	<u>.</u>	۲	
Reducing water leaks in the network (outside customer homes)	Good	Medium	Poor
	<u>**</u>	۲	
Increasing the number of homes which are metered	Medium	Medium	Poor
	<u>.</u>	۲	
More frequent restrictions on customer use of water e.g. hosepipe bans, no filling up of swimming pools	Good	Poor	Good



Regression analysis shows that environmental impact and cost of a solution influences decision making equally, with the former more important for younger customers



Results hold for both supply and demand side solutions.

With its positive environmental impact, tackling leakage achieves the strongest support from customers – highlighting how they want DCWW to lead on reducing wastage



C1. Please tell us whether you are in favour or against Welsh Water doing this as a way to help save water. Base: Total sample (804)

03



Leaks in the network is also the easiest measure for people to have a clear opinion on, but even then, by less than half – showing an opportunity for further education



C3. And which of these options, that you've just seen, do you feel you can offer a clear point of view on? Base: Total sample (804)



A similar hierarchy holds when ranking the measures for future investment: Tackling network leakage and raising awareness of customer's use are prioritised

Points assigned to each demand-side solution, out of 100 (Total Sample)





Priorities differ slightly by age, with older customers prioritising leakage reduction, and younger customers preferring a focus on individual usage

Points assigned to each demand-side solution, out of 100

(Total Sample by age)



On tackling leakage, customers are supportive of DCWW fixing private leakage on the customer supply pipe (that is technically the responsibility of the home owner)

Views on DCWW fixing private leakage

03

For the most part, this is seen as a win-win situation

- Particularly helpful for those struggling financially who may otherwise ignore leaks
- Consensus that this approach would mean more domestic leaks would be tackled
- Removes stress for the customer as DCWW seen as a reputable company, ensuring consistent quality of repairs

There is a minority who are less keen on paying for others' leakage repairs via their bills...

 Some suggest means testing this work so only those most in need have it fixed for free "Perhaps households could be means tested as I'm sure many households could afford to pay for leakage."

"I think this would be a good idea...I would rather trust my water board to make the repairs to the desired, safe standard."

"I do think pipes being looked at by a professional company like DCWW would be more beneficial to reducing leakages." On raising awareness of water use at home, many believe they are already efficient – though there is scope to encourage more behaviour change...

Willingness to save water (Total sample)

03

■ Never ■ To prevent temporary water outages ■ To prevent a hosepipe ban ■ To reduce water taken from the environment ■ Already doing this

Turn the tap off when brushing teeth

Turn off the tap when washing dishes

Only taking showers rather than baths

Using a bucket to wash cars / windows

Not filling or using a paddling pool

Not watering garden

Re-using cooking / washing-up / bath water

Flushing your toilet once or twice a day

Stopping the shower when "lathering"

Use a shower timer

5%	7%	5%	11%	%						7	73%		55+			I
%	8%	6%	10	%						7	2%	\triangle Aged 5	5+, Metero	ed		
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		29%	, D			19%		8	8%		21%	0		23%	Aged €	55+
		26%				20%		1	1%		4	25%		18	8%	



....and this appetite for change is exemplified by interest in finding out more from DCWW about saving water at a household, community, national and UK-wide level



03





In seeking to achieve behaviour change on a mass scale, we must be mindful of how we address our customers

A framework for behavioural change messaging and support:



Engage, keep in touch, keep them informed, start a dialogue, run campaigns to highlight bigger issues



EXPLAIN why they need to act, help them understand the broader water impact, and remember that giving them a better understanding of 'why' will make them more receptive to the 'how'



assist them in how they can help and give them the tools to help change their water behaviours, leverage their latent desire - but do be mindful that jumping straight to the 'how' without any of the 'why' can come across as 'preachy'



Customers are impressed when they see what DCWW can offer as part of ASSIST – but they want to hear more about this directly from DCWW

Free water saving devices - discount vouchers for money off water efficient white goods appliance exchange programmes - subsidised adaption of toilet cisterns to dual/variable flush - subsidised repairs of leaking toilets - subsidised grey-water re-use systems (to reuse bath or sink water) - free household water use assessment - water efficiency measures for businesses too

Very positive response to the DCWW demand management support on offer:

- ✓ Helping customers to help themselves rather than forcing change upon them
- All measures feel relatively easy to do within current lifestyles
- ✓ Welcome financial support for efficient white goods makes this feel achievable
- ✓ Conceptually, recycling water within the home makes a lot of sense
- ✓ All measures seen as making water saving more of a priority at home

Only downside for a small minority is caution over the potential size of a bill increase to subsidise these measures (during difficult economic times)

"Really good ideas. I think most households would be happy to reduce their water usage and these are easily implemented without too much hassle for the customer."

"I think they are all wonderful ideas, so much so that I don't know why it has taken until now to think of them, especially recycling bath water."

"It's exceptionally beneficial to the customer and with DCWW working with the customer to make these changes it takes the stress out of it."



On metering, we know from the separate metering research that there is a lot of support for metering roll-out, provided it is optional



 Clear that compulsory metering would anger some unmetered customers and cause resentment

Customers believe that DCWW needs to encourage behaviour change and apply necessary restrictions before taking more water from the environment

Attitude to taking water from environment (Total sample)

1 - Water companies should always encourage customers to use less, before taking more from the environment, even if it means a considerable inconvenience to customers

2

03

3 - Water companies should do an equal mix of both

4

5 - Water companies should always take more water from the environment when they really need to, to ensure customers aren't considerably inconvenienced on a daily basis



No significant differences by sub-group



B6. In times of drought, there are different ways in which water companies can ensure there is enough water to go round. One option is to reduce demand on water supplies. This might mean identifying and solving leaks, and asking customers to use less water - even if it's inconvenient for customers to do so. Another option is to take more water from the environment, which might mean customers don't need to be inconvenienced, but could have a negative environmental impact. Which of these statements most closely matches your point of view? Base: Total sample (804)

03

(Total Sample)

There is customer support for paying a limited amount on their bills to contribute to an enhanced demand-side response from DCWW



*All solutions that customers allocated at least one point to (out of their 100 points to allocate) were shown at this question

Willingness to pay for demand-side solutions*

C5. To invest in these ideas, Welsh Water might need to increase water bills. Would you be willing to pay an extra [Pull through price point] on top of your current yearly water bill to enable Welsh Water to invest in these ideas? Base: Total sample (804)

Relish

Tested at 95% significance



Increasing the number of water meters is the solution most likely to drive willingness to pay, followed by reducing leaks – both things where investment is more tangible

Driving willingness to pay: Demand-side solutions (*Total Sample*)



- Increasing the number of water meters in customer's home
- Reducing water leaks in the network outside customer's homes
- Reducing water leaks in customer's homes
- Avoiding more frequent restrictions on customers use of water
- Working with policy makers to help water efficiency in the home
- Working with customers to raise awareness of how to reduce water usage

Relish

DEMAND-SIDE RESPONSE – What does this mean for WRMP24?



04

Customer prioritisation reflects the idea of a 'social contract' – first they want network leakage addressed by DCWW, followed by DCWW working with them to help them reduce consumption (via campaigns as well as access to free/affordable devices/appliances). The latter is especially important to younger customers.

Addressing domestic leakage is also important, and customers express support and appreciation for DCWW helping them directly by fixing private leakage.

Increasing meter roll-out is seen as part of the solution – and customers acknowledge they will need to pay extra to support this – although customers are very clear meters must remain optional.

Customers (especially younger groups) care about the environment, and when they understand the environmental impact on water as a resource during drought conditions, they are accepting of non-essential usage restrictions before DCWW takes more water from the environment.

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Customers accept that DCWW increasing the demand-side response will need to be reflected in their water bills.

Supply-side response options





(⁰⁴) Supply-side measures shown in quantitative research

	Environmental impact	Effectiveness during drought	Cost to customer
	<u>**</u>	۲	
Expanding existing reservoirs or building new ones	Medium	Good	Poor
	<u>.</u>	۲	
Taking more water from the environment via rivers and groundwaters	Poor	Good	Medium
	<u>1</u>	۲	
Treating wastewater to a high standard and re-using it in customers' homes	Medium	Good	Medium
	<u>+</u>	٢	
Transferring water from parts of Welsh Water's operating area where there is surplus water, to parts where more is needed	Medium	Good	Medium
	<u>1</u>		
Trading water with other water companies in the UK that might have more water than they need	Medium	Good	Medium
	<u>.</u>	۲	
Desalinating sea water ready to be treated for use in customers' homes	Poor	Good	Poor

Please note that desalination was only covered in the quantitative survey

Customers strongly support transferring water to where it is needed most within Wales, but are far less supportive of taking more water from the environment than necessary



04



Customers feel most able to give a view on water transfer, but less so taking extra from the environment, which is a very complex topic



▲ Tested at 95% significance





When ranking the supply-side measures for investment, increasing reservoir storage and water transfers are seen as the most important priorities





04

Increasing water storage is viewed as a direct solution to the problem of potential future shortfall, though this is without understanding the full cost implications

2 options for DCWW increasing use of reservoirs to store water – 1) expanding existing reservoir, 2) re-opening an unused reservoir

Benefits

- Re-opening disused feels less environmentally harmful
- Any increase in storage capacity is welcome to build up reserves for drought periods
- Feels like making the most of existing resource rather than look for new supply sources

"I do support them creating more water storage if necessary to meet demand. Obviously there are many things to consider such as the environmental and economic impact on the planned site."

Drawbacks

- Even re-opening old reservoirs could harm the environment
- Potential negative impact on communities near the reservoirs
- Some wouldn't want this used to then **trade water** from these reservoirs

"I do support them doing this, but not for water trading."



Most agree that water trading makes financial sense for DCWW when there is a surplus in Wales, though the minority opposition voices have strongly held opinions

Trading water outside of Wales with other water companies by selling spare water – only when it would not reduce the level of service to current customers or damage the environment

Benefits

- More **rain** in Wales means potential surplus to trade
- Would benefit Welsh customers by reducing bills or improving infrastructure
- Most prefer future proofing the infrastructure over reducing bills
- Sharing when there is surplus makes **logical sense** and feels **morally right**
- Helping England's supply and Wales water future = win-win

"If there is surplus in the system and another water company is struggling I don't see any reason why there should not be a trade. I would be happy for the financial gain to be used on the network or a bill reduction."

Drawbacks

- If potential future shortfall in Wales, a minority does not support selling current surplus – consensus amongst this minority is to keep it for future use for the people of Wales
- Water trading increases carbon footprint

"If we (Wales) are going to be short of water in the long run, why sell what we have? Wouldn't it be better to store what we have for the future?"



Recycling treated wastewater is seen as a positive move towards a more sustainable water future by making more out of existing resources

Treating wastewater to a high standard so it is not harmful to the environment, before releasing it into a river upstream of a water treatment works, and then indirectly entering the public water supply

Benefits

- A sustainable approach
- Fits with other recycling habits/mindset
- Making more of what we already have
- (Mis)perception that this is **already widely done** in UK
- Putting water back into the river seen as a positive
- Feels more environmentally friendly than harmful

"I think it's imperative that DCWW recycles treated wastewater. Please DO!!"

Drawbacks

- Little bit of 'yuck' factor
- Some unsure about whether it feels right for drinking water – would need further reassurance
- Assume lots of chemicals involved
- Affecting eco system of river when put treated wastewater in

"I may feel slightly differently with regards to drinking water as just the typical 'yuck' factor but there will certainly be many uses that I don't think people would have any argument with."



Although taking more water from rivers/groundwater can be seen as acceptable, it is almost never preferable, and customers want reassurance about environmental harm

New river or groundwater abstraction via other sources of water where there is water available for additional supplies, or reinstatement of unused surface/ground water abstractions

Benefits

- A ready resource to address a fundamental human need
- Making more of existing resources
- Potentially more **cost effective** than other measures

"I would support them doing this if it was necessary, but I feel this should be a last resort option as it has the largest potential environmental and ecosystem impact."

Drawbacks

- Concerns about the **environmental impact**
- Need a lot of reassurance e.g. from NRW, that there will be no environmental harm
- Want to see more done to capture rainfall and store water before tapping into these sources

"It's not ideal that we should be taking even more water from rivers or the groundwater, but with increasingly higher water demand we really have no choice and I have to agree with it."



Customers indicate some conditional support for paying a little more on their water bill to fund supply-side measures





Tested at 95% significance

Online community response indicates that whilst many support the funding of these measures through customer billing, this support is often contingent on...

- ...the increase being small
- ...DCWW playing it's part by tackling network leakage
- ...DCWW pushing industrial users to reduce consumption too

And there are some who reject paying more on the basis of the current economic climate and concerns about the increasing cost of living

"All bills seem to rise year on year anyway, but if it was to ensure the availability of sustainable water now and into the future, I would be ok with that."

"It would depend on what the rise would be as people are quite stretched financially already. I feel that DCWW should be looking elsewhere to make up for any deficits."

*All solutions that customers allocated at least one point to (out of their 100 points to allocate) were shown at this question



Water treatment and trading are the most likely supply-side solutions to drive willingness to pay, where this investment required is more obvious

Driving willingness to pay: Supply-side solutions (*Total Sample*)



- Treating wastewater to a high standard and re-using it in customers' homes
- Trading water with other water companies in the UK that might have more water than they need
- Taking more water from the environment via rivers and groundwaters
- Transferring water from parts of Welsh Water's operating area where there is surplus water, to parts where more is needed
- Desalinating sea water ready to be treated for use in customers' homes
- Expanding existing reservoirs or building new ones

D5 To invest in these ideas, Welsh Water might need to increase water bills. Would you be willing to pay an extra [Pull through price point] on top of your current yearly water bill to enable Welsh Water to invest in these ideas? D4 Please imagine you have 100 "points" to invest in these different ideas to increase our water supplies. How much would you give to each of these ideas? The more points you give means the more you like this idea. Base: Total sample (804)

SUPPLY-SIDE RESPONSE – What does this mean for WRMP24?

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There is support for a greater supply-side response from DCWW to address potential shortfall, but customers do not want this to involve taking more water from the environment unless absolutely necessary.

Increasing storage is seen as a high priority solution to mitigating against future shortfall – primarily by expanding existing reservoirs or re-opening disused ones – even though customers realise this will be expensive.

Intra-regional transfers also garners a lot of support as a way of making more of resource we already have. Some want this taken further by trading water with other regions for financial gain that can be reinvested into the water infrastructure in Wales.

Water recycling and desalination both achieve similar levels of support and no strong rejection at a top level – though without exploring the detail of the processes involved, the cost or specific environmental impacts, this should only be seen as an initial indicative steer.

Whilst customers are willing to pay a bit more on their water bills to help fund their preferred supply-side solution/s, they expect this to coincide with DCWW working hard on demand reduction measures and are mindful of affordability in the current financial climate.



(⁰⁴) Click on the link below to see our video reel of DCWW customers

https://vimeo.com/640433285

Password: RelishWales

Moving forwards





⁰⁵ Moving forwards



PLUG THE KNOWLEDGE GAPS – At the core of WRMP24, there is a need for wider engagement with customers to explain the realities of how climate change impacts water as a resource in Wales and the risk of shortfall.

BE AWARE THAT DEMAND MANAGEMENT IS A SOCIAL CONTRACT – Customers want leadership from DCWW on leakage which they believe has to be a major contributor to shortfall. Seeing this will encourage them to play their part to further reduce their consumption, and we need to arm them with the relevant information and tools to be successful at this.

MAXIMISE EXISTING RESOURCE – Customers prioritise increasing storage capacity and transferring water within Wales before turning to new sources of supply such as water recycling or desalination plants. Water trading outside of Wales for financial gain to reinvest in the infrastructure, is broadly welcomed and only rejected by a more vocal minority.

TAKE MORE FROM THE ENVIRONMENT AS A LAST RESORT – When they understand the environmental implications, customers will accept restrictions on their water use rather than DCWW taking more from the environment during times of drought. They see this as their wider civic duty/responsibility, though of course they don't ever 'want' restrictions.

ENSURE A BALANCED APPROACH TO BILL INCREASES – There is broad acceptance that an increased demand-side and supply-side response will mean an increase to customer water bills. But this needs to be within the context of water remaining affordable to all, particularly in the current economic climate.



oliver@wearerelish.com jo@wearerelish.com k.laws@wearerelish.com

> 3 Angel Walk Hammersmith London W6 9HX

T: 0208 994 2333

