

Water Resource Assessment

The need for a Water Resource Assessment

Anglian Water is committed to supporting sustainable economic growth across the East of England. However, due to the impacts of climate change and to help protect the environment, the amount of water that businesses, including Anglian Water, can abstract is reducing. This situation is reducing our ability to be flexible with new requests to supply non-domestic connections which were not planned for in the Water Resources Management Plan 2025-2050 (WRMP24).

Whilst Anglian Water are taking steps to respond to this challenge with the construction of two new reservoirs and strategic pipeline transfers, these will take time to deliver. As such it is more crucial than ever that we work together with businesses, to ensure we are aware of their water demands for growth, and that demand management and water efficiency solutions are implemented to maximise what water is available.

Whilst Anglian Water has a statutory duty to supply water for domestic purposes (e.g., drinking water, hand-basins, toilets and showers) for non-household properties (e.g., schools, hospitals, offices, shops and hairdressers), there is no legal duty to provide water for non-domestic usage (e.g., agri-food production or car washes) where it might put at risk our ability to supply water for domestic purposes. When a site is designated as an NSIP or SDO, we will do our utmost to provide the water required for your project. However, this is subject to a director level review within Anglian Water and can take some time to approve. In some instances, even NSIPS and SDOs may ultimately be refused their requested non-domestic water request.

Anglian Water has adopted a [‘Non-Domestic Water Requests Policy’](#) which states that requests over 20m³/day will be declined. However, for Nationally Significant Infrastructure Projects that are requesting over 20m³/day of non-domestic water (as defined above) for a scheme, a Water Resource Assessment must be completed. This is so we can better understand water demands, water efficiency measures and more effectively forecast water supply requirements. This will help enable us to support projects that help achieve national ambitions such as achieving net zero carbon and unlocking sustainable growth.

Water Resource Assessment (WRA)

We advise that the WRA is used to inform the Preliminary Environmental Impact Report at the Statutory Consultation stage of the Development Consent Order (DCO) process and the Environmental Statement at submission. This will include engagement with environmental regulators. The WRA will also need to be submitted to Anglian Water’s pre-planning team also, so that the request for non-domestic water can be considered further. To guide this, we have set out below the information we expect to be included.

1. Contact and project details

Applicant name	
Applicant address	
Applicant contact name	

Applicant contact email	
Applicant contact phone number	

Agent name (if applicable)	
Agent address	
Agent contact name	
Agent contact email	
Agent contact phone number	

Retailer name (if applicable)	
Retailer address	
Retailer contact name	
Retailer contact email	
Retailer contact phone number	
Water SPID	
Sewerage SPID	
Trade Effluent DPID	

Site address/location details	
Site contact name	
Site contact role	
Site contact email	
Site contact phone number	

Site type / usage	
Hours of production	
Days of production	
Peak production period	
When will your connection be required	
Number of full-time employees on site	
Number of jobs supported by new/additional supply and discharge request	
Financial investment linked to request	
Project planning route and status - please provide details and timeframe	

2. Existing site supply and discharge (if applicable)

Non-domestic water demand	
Mains (potable) water consumption	
Annual water consumption (m ³ /year)	
Average daily water demand (m ³ /day)	
Peak daily water demand (m ³ /day)	
Peak hourly water demand (m ³ /hour)	
Borehole water consumption	
Annual water consumption (m ³ /year)	
Average daily water demand (m ³ /day)	
Peak daily water demand (m ³ /day)	
Borehole licence reference (please attach)	
Other water consumption (specify source)	
Annual water consumption (m ³ /year)	
Average daily water demand (m ³ /day)	
Peak daily water demand (m ³ /day)	
Anglian Water/site water connection location (Grid ref)	
Meter Serial Number and size	
Site water supply internal and external pipe diameters	
Site water supply pipe length to first point of use	
On-site water storage volume	
Effective water storage volume (m ³)	
Height above ground level of inlet to storage	
Storage inlet control device (ball-valve, motorised valve, etc)	
Percentage of process supplied by on-site water storage	

Trade effluent	
Total trade effluent volume (m ³ /year)	
Average daily trade effluent discharge (m ³ /day)	
Peak daily trade effluent discharge (m ³ /day)	
Trade effluent consent reference (if applicable)	
Trade effluent connection location (Grid ref)	
Trade effluent treatment plant description	
Trade effluent composition	

3. New (or additional needs) site supply and discharge requirements

This should include any temporary non-domestic water uses for construction.

Water demand

Quantity of water requested for domestic purposes (m ³ /day)	
Quantity of water requested for non-domestic (process) purposes (m ³ /day)	
Any water required for the purposes of firefighting	
Quality of water required i.e. potable or non-potable	
Average daily demand (m ³ /day)	
Peak daily demand (i.e. the highest volume we might have to supply in a day in m ³ /day)	
Diurnal and annual profile (m ³)	
Timescales to require the water, including any 'ramping up' to the full volumes e.g. construction needs and timescales	
Trade effluent	
Total trade effluent volume (including existing if appropriate) (m ³ /year)	
Average trade effluent volume (including existing if appropriate) (m ³ /day)	
Peak trade effluent volume (including existing if appropriate) (m ³ /day)	
Project planning route and status – please provide details and timeframe	

4. Water efficiency measures

As set out above, and in Anglian Water's Non-Domestic Water Requests Policy, there is a need to make best use of what water is available across the region, through implementation of water efficiency measures. We expect evidence of high levels of water efficiencies that you are considering implementing as part of your development and processes.

Potential ideas and solutions that we would want evidence on include:

- Maximisation of existing onsite resources (e.g. own borehole)
- Consideration of non-water based or close-loop cooling systems
- Capture and reuse of water from water-based cooling systems e.g. blowdown
- Sharing of resources with neighbouring facilities, considering all water-based resources such as steam, water/effluent reuse, rainwater harvesting
- Specification of highly rated white goods
- Sub-metering on site
- Evidence of water audit systems
- Infrastructure or systems that could manage the timing of water take e.g. onsite storage and control system, production flexibility
- Onsite measures to improve the water environment e.g. wetland

Please set out below what steps you have undertaken or will implement to ensure your processes (including during construction phases), and development are as water efficient as possible: