



Fosse Green Energy

EN010154

9.5 Water Resource Assessment

VOLUME

9

Planning Act 2008 (as amended)

Regulation Rule 8(1)(k)

The Infrastructure Planning (Examination
Procedure) Rules 2010

20 January 2026

Planning Act 2008

The Infrastructure Planning (Examination Procedure)

Rule 2010

Fosse Green Energy Development Consent Order 202[]

9.5 Water Resource Assessment

Regulation Reference	Rule 8(1)(k)
Planning Inspectorate Scheme Reference	EN010154
Application Document Reference	EN010154/EXAM/9.5
Author	Fosse Green Energy Limited

Version	Date	Issue Purpose
Rev 1	20 January 2026	Deadline 1

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	Fosse Green Energy Limited
Applicant address	-
Applicant contact name	Lloyd Sandles

Applicant contact email	lloyd@windelenergy.co.uk
Applicant contact phone number	07391 548 072

Agent name (if applicable)	AECOM Ltd
Agent address	NA
Agent contact name	Naomi Kretschmer
Agent contact email	naomi.kretschmer@aecom.com
Agent contact phone number	07918 552927

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

Site address/location details	Fosse Green Energy, Approximate Grid Reference: SK903639
Site contact name	Site has not yet been established
Site contact role	As above
Site contact email	As above
Site contact phone number	As above

Site type / usage	Solar Farm
Hours of production	<ol style="list-style-type: none"> 1. Core working hours will be 07:00 to 19:00 Monday to Friday, and 07:00 to 13:00 on Saturday, year-round, although there is the possibility of shorter hours in the months with reduced daylight hours. There will be no works on Sundays and Bank Holidays. Some works activities may need to occur out of these hours/times due to activities requiring to be undertaken continuously (such as HDD and cable jointing). Where on-site works are to be conducted outside the core working hours, they will comply with the restrictions stated in the Framework Construction Environmental Management Plan (CEMP) to be submitted with the DCO Application and any other restrictions agreed with the relevant planning authorities pursuant to the consent process under section 61 of the Control of Pollution Act 1974. 2. Additionally, quiet non-intrusive works such as the installation of PV panels may take place over longer periods during the high summer and other quiet non-intrusive works such as electrical testing,

	commissioning and inspection may take place over longer periods throughout the year.
Days of production	Monday-Saturday
Peak production period	<p>Peak construction period expected during 2032 (maximum of 600 workers (worst case scenario) on Site per day, average amount is 350 workers). This number will be less at other times of the construction phase.</p> <p>During operation, peak water use would be during panel cleaning cycles (Every two years) (200m³ highest consumption scenario is to assume the cleaning of all panels). This would not need to be supplied on a single day but over a more prolonged period (e.g. 2 months).</p>
When will your connection be required	2031-2033 for construction 2034 – 2094 for operation
Number of full-time employees on site	Construction: up to 600 (peak month); 350 average Operation: 20
Number of jobs supported by new/additional supply and discharge request	Construction: up to 600 (peak month); 350 average Operation: 20
Financial investment linked to request	£200-£250M
Project planning route and status - please provide details and timeframe	NSIP – DCO Application due to be submitted in July 2025

2. Existing site supply and discharge (if applicable)

Non-domestic water demand	
Mains (potable) water consumption	0
Annual water consumption (m ³ /year)	NA
Average daily water demand (m ³ /day)	NA
Peak daily water demand (m ³ /day)	NA
Peak hourly water demand (m ³ /hour)	NA
Borehole water consumption	
Annual water consumption (m ³ /year)	NA
Average daily water demand (m ³ /day)	NA
Peak daily water demand (m ³ /day)	NA
Borehole licence reference (please attach)	NA
Other water consumption (specify source)	
Annual water consumption (m ³ /year)	NA
Average daily water demand (m ³ /day)	NA
Peak daily water demand (m ³ /day)	NA
Anglian Water/site water connection location (Grid ref)	
Meter Serial Number and size	None

Site water supply internal and external pipe diameters	NA
Site water supply pipe length to first point of use	NA
On-site water storage volume	
Effective water storage volume (m ³)	
Height above ground level of inlet to storage	See previous comment as information is pending
Storage inlet control device (ball-valve, motorised valve, etc)	See previous comment as information is pending
Percentage of process supplied by on-site water storage	See previous comment as information is pending

Trade effluent	
Total trade effluent volume (m ³ /year)	0
Average daily trade effluent discharge (m ³ /day)	NA
Peak daily trade effluent discharge (m ³ /day)	NA
Trade effluent consent reference (if applicable)	NA
Trade effluent connection location (Grid ref)	NA
Trade effluent treatment plant description	NA
Trade effluent composition	NA

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)	<p>Construction: 23 m³/day of clean water, during peak construction month (assumed to be during 2032) for a worst case of 600 workers. The average number of workers on site during construction is assumed to be 350, which would have an demand of an average 13m³/day. This equates to an assumed maximum of 12,264 m³ over the 30 month construction period.</p> <p>It is assumed that the peak volume of 21.3m³ per day of foul water would be produced during construction equating to an assumed maximum of 11,610m³ over the 30-month construction period.</p> <p>Operation: a peak of 0.75m³/day of potable water (assumed to be 4 permanent staff members and up to 20 in attendance during period of maintenance or cleaning cycles), and a peak of 0.71m³/day for foul water systems.</p>

Quantity of water requested for non-domestic (process) purposes (m ³ /day)	<p>During construction: 500m³ in total for wheel washers.</p> <p>Dust Suppression: 1000m³ may be needed in total for dust suppression</p> <p>Concrete preparation across the Site: 25,000m³ in total to be stored in tanks on site.</p> <p>Horizontal Directional Drilling: TBC</p>
Any water required for the purposes of firefighting	A single instance of filling of fire water tanks. There would also be 30m ³ water storage at each BESS or serving clusters of BESS for fire water emergency.
Quality of water required i.e. potable or non-potable	Potable / non-potable as discussed above
Average daily demand (m ³ /day)	Operational average demand: 2m ³ /day
Peak daily demand (i.e. the highest volume we might have to supply in a day in m ³ /day)	This peak demand is the estimated total volume of water needed during the construction phase of the site: 63m ³ /day
Diurnal and annual profile (m ³)	<p>Summer monthly maximum during construction are estimated at 1485m³ while winter Monthly Maximum during construction are estimated at 1039m³</p> <p>The water use during the operational phase will be stable with no spikes in water use anticipated over the period with an annual maximum water use of 474m³</p> <p>No intensive water operation is due to be undertaken during the day while the site is in operational running of the site but the majority of the construction work will occur during daylight hours.</p>
Timescales to require the water, including any 'ramping up' to the full volumes e.g. construction needs and timescales	Assumed 2-year construction period (30 month worst case) 60 year operational life
Trade effluent	
Total trade effluent volume (including existing if appropriate) (m ³ /year)	NA – during construction porta-cabin type facilities will be in use. Operational requirements for substation facilities will be met with a sealed cesspit emptied under contract.
Average trade effluent volume (including existing if appropriate) (m ³ /day)	NA
Peak trade effluent volume (including existing if appropriate) (m ³ /day)	NA
Project planning route and status – please provide details and timeframe	NSIP – DCO Application due to be submitted in July 2025

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:

Fosse Green Energy Limited have committed to ensuring water use for both the life time of the constructed assets and their construction/dismantling stages will be as efficient as permissible. It is understood that the development of any projects across the Anglian region may have an impact on the current supply and demand balance of water resources across the Eastern region. Therefore we have set out a number of steps below that will be implemented into our proposed development to mitigate water use within our local water resource zone.

- Rainwater harvesting is to be implemented on site to capture potential run off for the use of grey water across the Proposed Development.
- Water efficiency measures will be implemented into all welfare facilities located on the constructed site, this includes low flow toilets and other washing conveniences.
- A site Water Management Plan will be submitted once consent has been granted for the Proposed Development.
- The provision of emergency fire water for the development is proposed to be stored within onsite water tanks of which two 30m³ will be constructed that will be filled once after their installation to ensure there is accident provision for high volumes of water.
- The water used during the construction phase of the projects for activities such as wheel washing, the preparation of concrete and dust suppression will initially be stored on site in tanks of up to 10m³ in capacity.
- A local Resource Water Storage reservoir has been recently constructed along the northern boundary of the site, its current volume for the storage of water has not been defined but investigations into the feasibility of utilising this storage capacity are being undertaken.

Appendix A: Correspondence with Anglian Water Services

[REDACTED]

From: [REDACTED]

Sent: 23 December 2025 09:02

[REDACTED]

Subject: RE: Fosse Green Energy - non-domestic water resource decision

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[REDACTED]

I have checked with senior management, and we ARE able to provide the water for your requirements.

Best regards,

[REDACTED]

EXTERNAL MAIL - Please be aware this mail is from an external sender - THINK BEFORE YOU CLICK

[REDACTED]

Thanks for your email. We believe it'd be a maximum of a month at each site (crossing of River Brand and River Witham). This is likely to be a worst case and potentially significantly less time.

Kind regards,

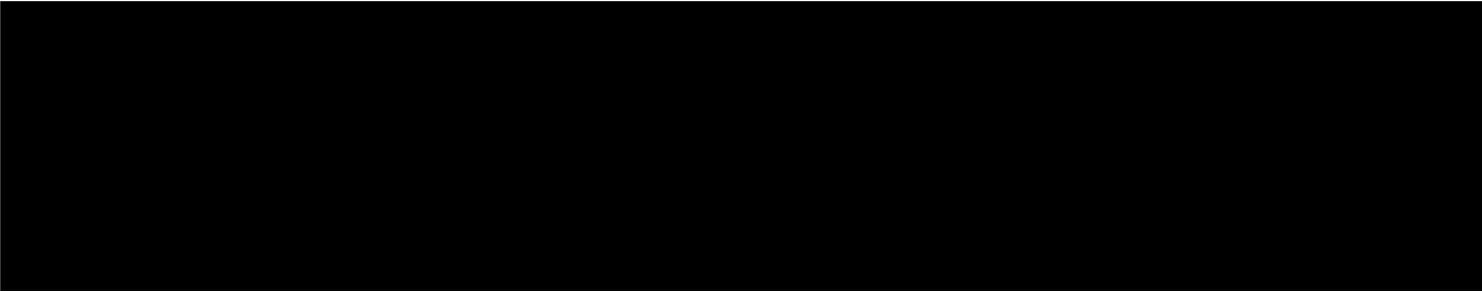
[REDACTED]

Thank you for your email below.

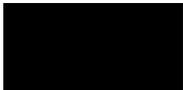
Can I just check, for how long (how many months) will you need the 430m³/d volume during construction?

I will then just run it past our head of water resource to ensure we are able to agree to that volume.

Best regards,



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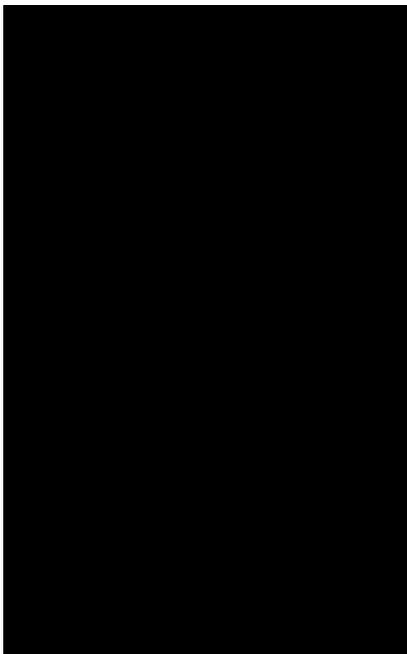


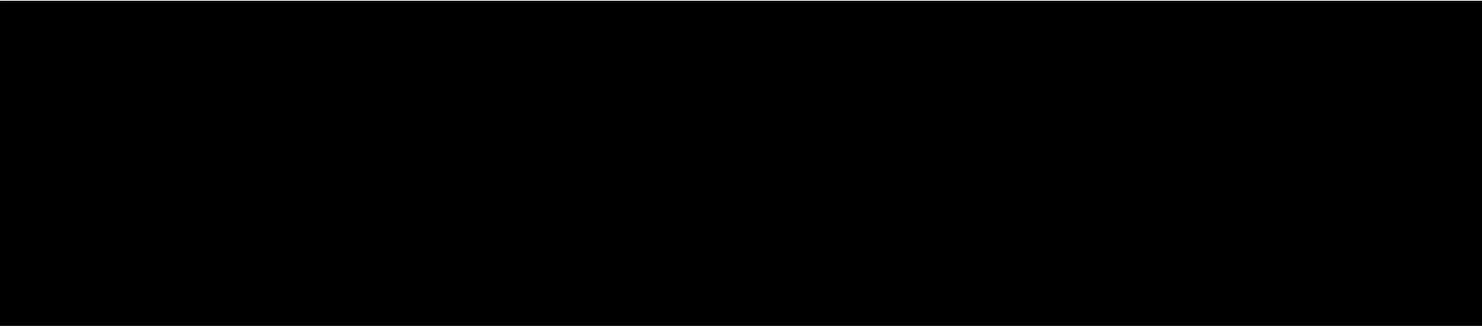
Thanks for the response below to my colleague Rebecca regarding Fosse Green Energy Park. We can confirm we are not in need of a wastewater connection.

Could I just ask about an additional issue please that has come out of the relevant representations from the Environment Agency.

In their relevant representations, the Environment Agency noted that horizontal directional drilling water requirements were unconfirmed in the Water Resource Assessment submitted to Anglian Water (it was marked 'tbc'). The water required for this activity will be heavily dependent on the underlying ground conditions and as such was not estimated previously as it will require further site specific ground surveys and risk assessment. Nonetheless, we believe a total of 420-430 m³ for the HDD crossings of the River Witham and River Brant would be a reasonable conservative estimate. Would this volume of additional water at the construction phase raise any concerns to Anglian Water with regard to the outcome of the Water Resource Assessment? We would be grateful if you could confirm this in writing in order that we can confirm the outcome to the Environment Agency. If you need any further information then please let us know.

Many thanks for your help.

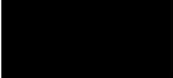




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Thank you for completing your Water resource assessment for this development and apologies that it has taken us so long to respond. I needed to seek the opinions of a number of senior colleagues before being able to finalise the decision.

The good news is – I am happy to confirm that we **are able to provide you** with the water to meet all of your requirements (both domestic and non-domestic) during construction and during operation.

Once you have DCO approval, please append this email to your new mains connections applications on our inflow portal, so that the team know they can progress (given that the water required is slightly above the 20m³/d that we typically are allowing).

The other service that we can provide, such that you get more certainty on upgrades now, prior to DCO approval, is the “pre-planning service”. I recommend that you carry out this service now, such that the modelling team will assess the scale of any offsite infrastructure upgrade required to enable us to meet your needs. We will also assess the likely upgrade costs that are payable by you.

It is atypical that there is more water needed during construction than in operation of your site, so we do need to think about the most efficient way of supplying your site as soon as possible really. The pre-planning service would give us the opportunity to do so now, now we have the decision on the actual water resource that we are able to allocate. If the DCO decision delayed for any reason, then you would have a formal document inclusive of the connection points (both water and wastewater) for your site, and any costs associated. The validity period on that report is 12 months. Again that can be applied for through our inflow portal.

Any questions, please contact  d we will be sure to answer promptly.

Best regards,





Anglian Water Services Limited
www.anglianwater.co.uk



For further information please email us  visit our website at:

<https://www.anglianwater.co.uk/developing/planning--capacity/planning-and-capacity/>

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