

The Planning Inspectorate  
National Infrastructure Planning  
*Electronic submission and email only*

████████████████████  
Our ref: Medworth EfW/Deadline 5

15<sup>th</sup> June 2023

Dear Sir / Madam,

**Medworth Energy from Waste Combined Heat and Power Facility  
Deadline 5: Submission of further information received by Deadline 4**

Anglian Water is making this submission to provide further information and updates on our submission at Deadline 4 regarding the availability of water resources to fulfil the proposed non-domestic water supply requirement of Medworth Energy from Waste Combined Heat and Power Facility and responds directly to the Technical Note produced by the Applicant to expand upon water supply and foul drainage matters for the facility. It is understood that the Applicant will be submitting the Technical Note to the Examining Authority at Deadline 5.

As a result of the review of the Technical Note provided by the Applicant over the proposed requirements for water resources and foul drainage for the facility, Anglian Water can respond to the key matters previously raised through the examination and Statement of Common Ground, as follows:

**Water Resources**

- The water demand for the existing use on the site (waste transfer depot) does not exceed 3m<sup>3</sup>/day and therefore is negligible in terms of any offset against the proposed demand for non-domestic water.
- The requirement for the standard daily operational needs of the facility is 5m<sup>3</sup>/hr or 0.12 megalitres/day (Ml/d) which is above our de minimis threshold for non-domestic water demand. As highlighted previously, to respond to the challenges of abstraction reductions to protect the environment, and a growing population, Anglian Water is building a new strategic pipeline to move water around our region. We have also developed plans to build two new reservoirs to increase water supply. These solutions will take time to deliver, and so it is more crucial than ever that all homes and businesses are water efficient, to reduce the overall demand for water, to meet government targets and to ensure there is enough water to go around.
- The Technical Note setting out the approach to efficiently managing potable water use and utilising a water audit process is welcomed. The breakdown of water consumption in Appendix G of the Note demonstrates that of the 5 m<sup>3</sup>/hr consumption, 0.72 m<sup>3</sup>/hr is for domestic purposes (amenity and sanitary uses) of which 0.51 m<sup>3</sup>/hr can be addressed by non-potable supply including on-site rainwater harvesting. The non-domestic supply therefore equates to 4.28 m<sup>3</sup>/hr (0.1 Ml/d).

- The Anglian Water strategic interconnector from Peterborough to Bexwell (near Downham Market) will be constructed in 2025 and will bring more water into the Fenland water resource zone. Once other pressures for water demand have been addressed, Anglian Water can confirm the ability to offer 0.12 MI/d from April 2026 to the facility. It is understood that the site will be commissioned from Q1 2027 and therefore the strategic interconnector will enable both domestic and non-domestic demands for water to be met.
- The 12m<sup>3</sup>/hr of additional demand for occasional use (4 – 6 times a year) is less than 0.002 MI/d on average and will be considered by our network modellers when a submission for a water supply connection is made by the Applicant through the Anglian Water InFlow process.
- Anglian Water understands that the steam supply requirement of 63m<sup>3</sup>/hr should not result in a net increase in terms of available water resources, as it will replace the water supply used by existing customers in the vicinity of the facility. Through the application to Anglian Water to upgrade to the water connection and increase supply to for steam generation, measures will be required to ensure a net 'neutral' position on water resources accounting for a corresponding reduction in demand from the 'steam customer'. Whilst a 'no condensate return' approach is outlined, Anglian Water would encourage condensate return to be utilised wherever possible whilst recognising that this is dependent on whether the customer's processing of the steam supplied can enable this to be secured.
- It is noted that water demands during the construction process should not be excessive as no temporary concrete batching plant is required on site, and therefore water will be generally required for amenity and sanitary uses for construction workers on site.

**Foul drainage connections:**

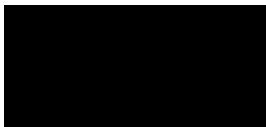
- Anglian Water has no specific concerns with the proposed foul drainage strategy presented by the Applicant and advise the Applicant to submit an application for the foul drainage connections as soon as reasonably practicable to enable the application process to progress and align with the construction and commissioning of the project.
- A flow survey will be required for trade effluent and will confirm whether any network reinforcement will be needed. It is advised that any network upgrades, should they be required, will take 2-3 years to construct and at the cost of the developer.
- The domestic foul flows will need to be confirmed at the point of submitting a pre-planning application through our Inflow platform and any upgrades will be the responsibility and at cost to Anglian Water.

In addition, Anglian Water notes that there is potential for further efficiencies and alternative water supplies in the future, should DCO consent be granted for the facility, which include:

- Alternative water supply options for future consideration by the facility includes final effluent re-use from Water Recycling Centres following further investigation into feasibility by Anglian Water.
- The ability for the facility to secure condensate returns from potential steam customers that are currently in operation in the vicinity with an existing water supply, provides opportunities for greater water efficiencies by the facility. There is also the potential for closed-loop processes for future steam customers that may choose to locate in the vicinity of the facility, subject to securing a water supply from Anglian Water.

This submission reflects the response we have provided to the Applicant on the Technical Note prepared to provide further detailed information on water supply and foul drainage and is appropriately reflected in the updated Statement of Common Ground between both parties.

Yours sincerely,



Phil Jones  
Growth Strategy Manager