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Planning

Active Gas Capture (Digested Sludge Degassing) Solutions

SEVERN TRENT WATER LIMITED

UK2: Preliminary market engagement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-062325

Procurement identifier (OCID): ocds-h6vhtk-05a84b

Published 3 October 2025, 5:25pm

Changes to notice

This notice has been edited. The [previous version](#) is still available.

Scope

Description

Active gas capture is one of the Severn Trent net-zero enhancement investment solutions for reducing Bioresources methane emissions during AMP8. To meet our regulatory commitments on operational emissions reduction, we are seeking technological solutions

that enhance the methane recovery potential of anaerobic digestion plants. Specifically, we are looking to the market for technologies such as vacuum degassing that target the removal of residual biogas, entrained or dissolved in liquid digestate, reducing subsequent downstream methane emissions to atmosphere.

We would be looking for supply, installation & commissioning of such solution across various Severn Trent Water sites (likely to be required on site from 2027 onwards). Training, Operations & Maintenance may also be required (but to be determined at a later stage following further discussions). Preliminary discussions indicate that c.18 sites may require an active gas capture solution.

The following requirements state our performance and site integration expectations and standards compliance for a proven technological solution which removes biogas from digested sludge via degassing or other:

GENERAL:

- A complete containerised or roof-covered solution that removes and captures biogas (dissolved and entrained in microbubbles) from within the solid and liquid matrix of digested sludge.
- A solution which recovers the captured biogas into an existing biogas collection system or other beneficial-use outlet.

SAFE SYSTEM INTEGRATION:

- Integrates with the outlet of an existing digester(s) or covered post digestion tank(s)
- Integrates into the existing biogas collection pipework
- Integrates into the existing site SCADA systems
- Meets all requirements of the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) and the Severn Trent Potentially Explosive Atmospheres Design Manual and Specification (ME37-Potentially Explosive Atmospheres), including details on explosion protection.

TECHNOLOGY READINESS LEVEL (TRL):

- At TRL 8 or above

CASE STUDIES / INDUSTRY EXPERIENCE:

- Able to provide at least one case study specific to trials / installations recovering biogas

from digested sewage sludge or material with similar properties

HARDWARE & SOFTWARE:

- Compliance with Severn Trent mandated supply frameworks, some components may require replacement to Severn Trent approved framework suppliers (further details of impacted components to be provided by Severn Trent at a later stage).
- Hardwired interlocks for gas-related DSEAR safety.

EMISSIONS MONITORING:

- Internal capability or compatibility with monitoring equipment measuring the concentration and flowrate of biogas, methane and oxygen

ENGINEERING STANDARDS:

- The complete system and its components developed to European (EN) / British or equivalent / Water Industry Specification / Severn Trent engineering standards, with suppliers to advise of any potential asset standard deviations known at this stage.

Interested Suppliers are requested to complete the below form ahead of the proposed engagement deadline of 7th November 2025:

<https://forms.office.com/e/Jeq86303pd>

Contract dates (estimated)

- 1 July 2026 to 31 March 2030
- 3 years, 9 months

Main procurement category

Goods

CPV classifications

- 42996000 - Machinery for the treatment of sewage

Contract locations

- UKC - North East (England)
- UKD - North West (England)
- UKE - Yorkshire and the Humber
- UKF - East Midlands (England)
- UKG - West Midlands (England)
- UKH - East of England
- UKI - London
- UKJ - South East (England)
- UKK - South West (England)

Engagement

Engagement deadline

7 November 2025

Engagement process description

Interested Suppliers are requested to complete the below form ahead of the proposed engagement deadline of 7th November 2025:

<https://forms.office.com/e/Jeq86303pd>

Procedure

Special regime

Utilities

Contracting authority

SEVERN TRENT WATER LIMITED

- Companies House: 02366686
- Public Procurement Organisation Number: PQQN-5222-QDXR

Severn Trent Centre

Coventry

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Region: UKG33 - Coventry

Organisation type: Private utility