

Chloe

Turn residual methane into biogas

Vacuum degassing for post-digested sludge and industrial wastewater



Your digesters are leaving biogas behind. Chloe recovers it.

Methane leaves digestion dissolved and entrained in sludge. Downstream, it becomes an emission, a safety consideration and lost energy. Chloe is a modular vacuum-degassing system that recovers this residual methane before it escapes and returns it to the site's biogas system, at the point where it is easiest and most practical to capture.

Up to 7×

energy recovered compared with energy consumed¹

100–1,500

m³/day per unit, from Trial Chloe to Big Chloe

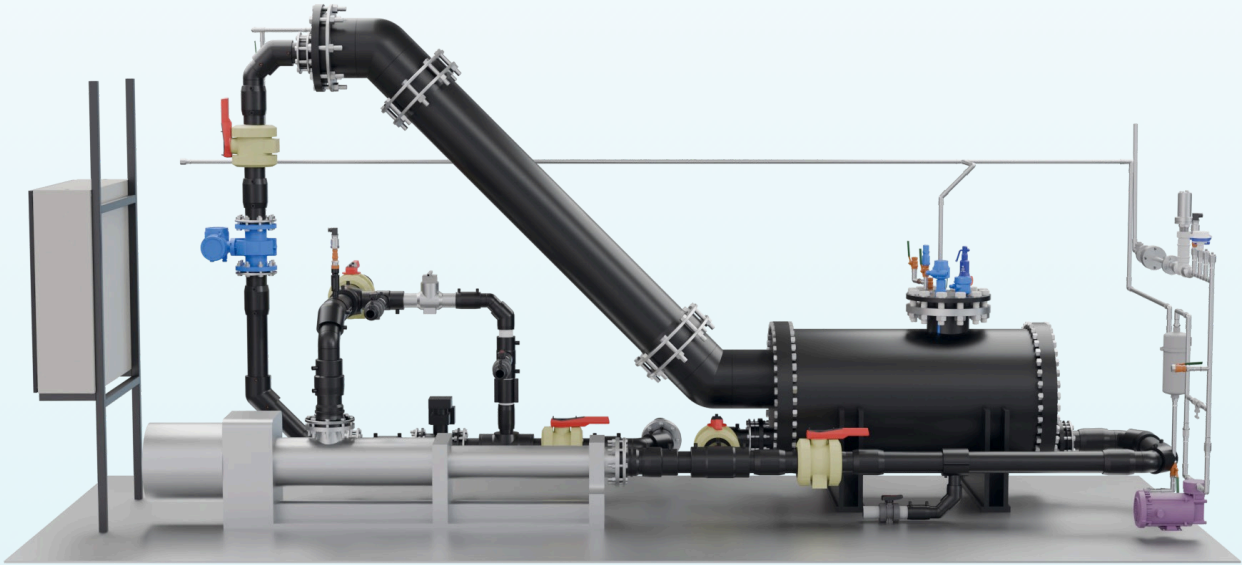
More biogas. Fewer emissions.

Methane, under control.

bluemethane.com/chloe

How Chloe works

Chloe applies controlled pressure variation, turbulence and gravity-driven separation to release dissolved and entrained methane from sludge. Recovered gas is collected and returned to the site's energy systems; degassed sludge continues downstream.



Chloe process skid, shown outside its 20 ft container

1

Draw off

Post-digested sludge is taken from the digestate line, inline or on recirculation.

2

Degas

Vacuum, turbulence and cascading flow release dissolved and entrained methane.

3

Recover

Captured gas is returned to the biogas system for CHP or biomethane upgrading.

4

Return

Degassed sludge flows on to storage and dewatering with less methane to release.

Why operators choose Chloe

Energy-positive

Recovers several times the energy it uses, with a low power demand.

Lower emissions

Captures methane before it is released in storage, dewatering and cake handling.

Safer downstream

Degassed sludge is easier and safer to store, transfer and dewater.

Ready to connect

20 ft container or skid. No major civil works, phased roll-out.

Try before you buy

Trial Chloe proves performance on your own sludge first.

The Chloe range

Three commercial sizes to match your sludge flow, and a Trial Chloe to prove performance on your site first. Units can be combined for larger flows.

TRY BEFORE YOU BUY

Trial Chloe

100

m³/day

Short-term deployment to measure recovery on your sludge

Small Chloe

500

m³/day, up to

Smaller digestion sites and single digestate streams

Chloe

1,000

m³/day, up to

Mid-size sludge treatment centres

Big Chloe

1,500

m³/day, up to

Large sites; combine units for higher flows

Technical specification

PROCESS

Technology	Vacuum degassing
Liquid processing capacity	100 / 500 / 1,000 / 1,500 m ³ /day
Configuration	Inline or recirculation
Recovered gas	Returned to biogas system (CHP or upgrading)

ELECTRICAL & CONTROL

Power demand	Less than 3 kW (estimated)
Telemetry	SCADA integration, ISO 27001-compliant

INSTALLATION & COMPLIANCE

Format	20 ft container or skid
Standards	WIMES-compliant, ATEX-certified
Civil works	None major; connects to existing infrastructure
Maintenance	Low, periodic checks only
Build & support	UK-assembled, UK-supported

Try Chloe before you buy her

Trial Chloe treats up to 100 m³/day of your own sludge, so you see recovered gas quality and energy balance on your site before committing to a full-size unit.



Proven on live sites

Chloe has operated on real sludge, with real constraints, at UK water utility sites since 2024.

ANGLIAN WATER · THP SITE

Installed downstream of thermal hydrolysis and digestion

Energy balance **Energy-positive**

Commissioning **Within 1 week of deployment**

Trial outcome **Successful after 4 weeks**

THAMES WATER · CONVENTIONAL DIGESTION

Installed downstream of primary digestion

Energy balance **Energy-positive**

Commissioning **Within 1 week of deployment**

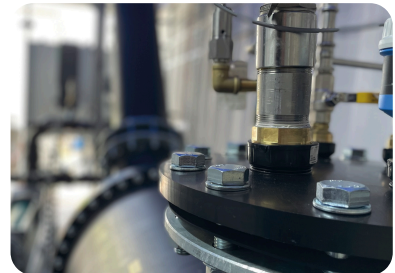
Trial outcome **Successful after 4 weeks**

~450 t

CO₂e avoided per year, for 200,000 m³ of sludge treated¹

Independent-reviewed Environmental Impact Assessment of Chloe (Bluemethane, Rev. 7, August 2026), covering biogas recovery, energy balance, odorous gases, nutrients, microbiology and dewaterability.

[Read the full assessment >](#)



Demonstrated in partnership with

Anglian Water

Thames Water

Scottish Water

Welsh Water

Wessex Water

United Utilities

Yorkshire Water

Southern Water

Part of the Bluemethane family

Emily measures methane **Chloe** captures it **Brutus** prevents it

Book a site assessment or a Chloe trial

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¹ Chloe Environmental Impact Assessment, 056-REP-EIA Rev. 7. Results are site-specific.

Specifications subject to change.