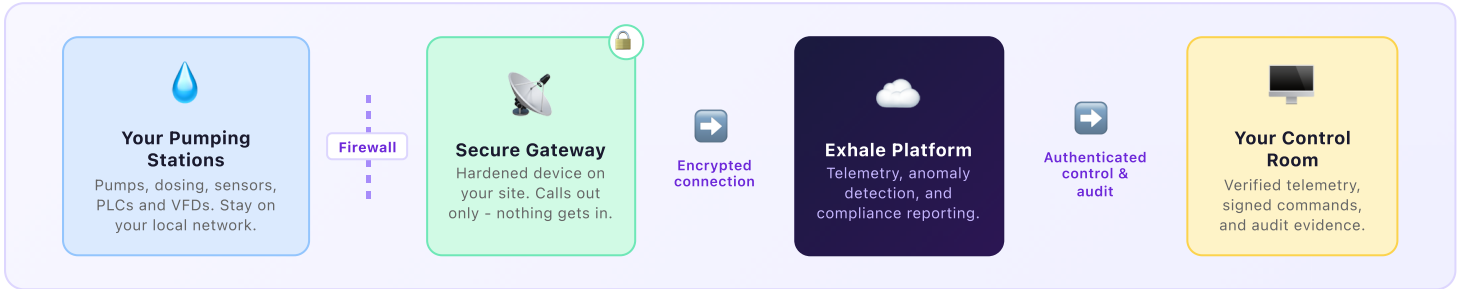



Your pumping stations are now connected - but who else can reach them?

Pumping stations, treatment works, and dosing systems used to be air-gapped. Modernisation programmes have put PLCs and RTUs onto IP networks for telemetry and remote control. The same connectivity that drives efficiency now exposes safety-critical OT to the public internet — and to anyone with a stolen credential.

How We Keep Your Sites Safe




What We Protect Against




Pump & Process Manipulation

Attackers stop pumps to cause flooding or supply outage, or run them at unsafe set-points to cavitate impellers and burst pipes. Our gateway only accepts **signed commands from your authenticated control room** - nothing else reaches the PLC.



Chemical Dosing Tampering

Manipulated chlorine, fluoride, or coagulant set-points create public health incidents that take days to detect. Our gateway enforces **hardware safety envelopes locally** - even a compromised SCADA cannot drive dosing outside safe limits.



Lateral Movement Across Sites

One compromised pumping station becomes a foothold to pivot into the SCADA hub and every other site on the network. Our gateway **isolates each site**, so a breach is contained to a single location and cannot cascade.

How We Protect You

- **Pump-station OT never touches the internet** - PLCs, RTUs, and VFDs sit behind our firewall, talking only to the on-site gateway.

- **The gateway only calls out** - no inbound connections are accepted. Even if someone knows it exists, they cannot connect to it.

- **Every command is signed and logged** - full audit trail from operator click to PLC ack, evidence-ready for Ofwat, DWI, and NIS Regulations assessors.

- **Each site has unique credentials** - automatically rotated. A compromise at one pumping station gives zero access to any other.

- **Fail safe during outages** - if the link to your control room or our cloud drops, the gateway holds each site at its last known safe state until connectivity returns.

What You Get

-  **Protection without complexity**
We handle the security architecture. You get a hardened, auto-updating gateway, installed on site, with nothing for site engineers to configure or maintain.

-  **Operational continuity**
Pumps stay under your control, not someone else's. Last-known-safe behaviour during outages keeps treatment running and supply flowing while you investigate.

-  **Regulatory confidence**
CAF-aligned controls, continuous compliance reporting, and audit logs - ready for Ofwat, DWI, NIS Regulations assessors, or your insurer.

-  **Complete visibility**
Live dashboard across every site showing OT health, telemetry, and security events - securely accessible from anywhere, on any device.

"Most water companies have been bolting IP connectivity onto pumping stations that were designed before cyber was a consideration. The PLCs work fine, but they have no native authentication and no idea who is talking to them. We put a hardened gateway in front, so modernisation does not open a back door into critical national infrastructure."

- Gareth Williams, Co-Founder, Exhale

IEC 62443
NIS2 READY
NCSC CAF
ISO 27001 ALIGNED
UK GDPR
POST-QUANTUM READY