



enva



End-to-end Water & Wastewater Solutions

Protecting and **recovering** the world's **finite resources**

enva.com

environment matters

Solutions for the Water Industry



A full spectrum of **water** and **wastewater services** helping customers **diagnose and resolve operational issues** and delivery of projects throughout the entire network.

Enva provides a comprehensive range of water and wastewater services across the UK and Ireland, assisting customers in diagnosing and resolving operational issues and delivery of projects throughout the entire network.

Our solutions support the water industry in operating efficiently and cost-effectively within stringent regulatory requirements. From monitoring and measuring to offering a fully integrated service covering all aspects of industrial cleaning within water and wastewater networks, Enva delivers consultative management services to identify and monitor maintenance needs within the network and treatment facilities.

Our services include procurement and provision of services including consultancy, project management, software solutions, compliant waste removal and recycling, transforming hard to handle materials into valuable sustainable products, and delivery, including plant and equipment.



End-to-end solution for:

- Mapping and monitoring,
- Enablement works
- Maintenance
- Decommissioning



Over 30 years' **industry leading experience** providing **innovative solutions**.

At Enva we are committed to recycling and resource recovery; it forms the basis of our business strategy and our values.



Key services:

- > End-to-end solution for enabling works, maintenance and site de-commissioning
- > Network solutions
- > Cleaning, de-gritting, desilting, sludge de-watering and removal
- > Sludge and grit treatment, recycled to agricultural land, providing 100% diversion from landfill
- > Chemical spill response cleaning and removal/treatment
- > IBC re-conditioning
- > On-site and laboratory services.

Solutions for the Water Industry



Improving efficiencies and **reducing costs** for our clients.

CASE STUDY

Reservoir desilting

- Loch Lee, SSSI Site

The raw water reservoir had experienced silt accumulation over time, reducing storage capacity and restricting flows into nearby treatment works. This build-up was beginning to affect water quality and operational reliability, posing a risk of service interruptions during peak demand.

Our team implemented a tailored de-silting programme using a dive team, specialist suction, and de-watering equipment. The work was carried out while the reservoir remained in service, ensuring minimal disruption within the networks and improving operational performance with minimal environmental impact.

The project successfully restored reservoir capacity, improved water quality, and secured a consistent supply to the treatment works with no downtime.

CASE STUDY

Lagoon Cleaning - Clunas Sludge Lagoon

A water treatment facility required the removal of 23,000 tonnes of accumulated sludge from an on-site holding lagoon in a field. The physical characteristics of the material made it very difficult to transport, as once agitated, the structure breaks down and re-liquefies. Additionally, over the years, reeds and debris had accumulated in and around the lagoon, making pumping solutions challenging.

Our team carefully cleared the area, removing reeds, stones, and other debris before safely dewatering the sludge using specialised equipment. Once dewatered, the sludge was repurposed in a site restoration project, supporting sustainable land management.

The field was returned to its natural state, preserving local ecology while responsibly managing waste materials. This approach delivered environmental benefits, resource recovery, and a fully restored site, demonstrating how operational needs and sustainability can work hand in hand.

CASE STUDY

Digester Cleaning - Wastewater

A customer was experiencing reduced biogas yields and lower digester capacity due to heavy rag and grit accumulation. The build-up was restricting mixing efficiency, reducing volume, and increasing the risk of unplanned downtime.

Our team carried out a comprehensive de-gritting and re-ragging programme using specialist suction equipment designed for heavy sludges and confined spaces. The challenge was to remove the accumulation of grit and rag within several digesters while preserving the sludge deposits to be re-processed into agricultural fertiliser.

Our solution involved using specialist suction equipment and man-entry techniques through a mobile dewatering system, avoiding the use of added water that would render the valuable sludge non-compliant. The job was completed safely and efficiently, removing 500 tonnes of grit over a three-week project, while returning the sludge back to the treatment works for further processing.

For projects where the sludge is not being reused as farmland fertiliser, Enva employs our DMax mobile dewatering system, which washes grit and rag removed from digesters and storm tanks, returning any sludge deposits back to the treatment works. The grit and rag material is reprocessed into valuable and sustainable resource, reducing environmental impact.

The outcome was a fully restored digester with improved mixing and capacity, enhanced biogas generation, and extended asset life. The client benefited from increased operational efficiency, reduced maintenance costs, and a safer working environment.



CASE STUDY

Grit Removal - Robotic Vacuum Equipment

A major wastewater treatment facility faced ongoing challenges with grit and rag accumulation within the aeration channels. Traditionally, this type of cleaning required taking the channel offline, leading to disruptions across the network.

Our team deployed advanced robotic suction equipment capable of operating safely while the channel remained in full service. The remotely operated system efficiently removed rag and grit deposits without the need for draining or shutting down the system. We then used the MTP to further de-water the material before creating value from the waste through agricultural use and energy recovery.

This approach not only minimised downtime but also reduced health and safety risks associated with confined space entry. The result was a fully restored aeration channel with improved operational efficiency, achieved with zero operational disruptions.

Mapping and Monitoring



Support services to fully map wastewater networks, identifying challenges and providing solutions.

We deliver precise mapping and monitoring solutions to give full visibility of our customer's water and wastewater networks. Data driven solutions utilising AI technology and flow sensors provide real time data analytics to enhance network mapping, identifying potential infrastructure asset failures, and provide technical/ engineering solutions to minimise environmental impacts and build for the future.

Key processes:

- > Technical and data driven solutions
- > Leak/spill detection
- > Temperature monitoring
- > Flow monitoring
- > Level monitoring
- > CCTV network surveys.

CASE STUDY

Network assessment and Rehabilitation

A water company was facing recurring blockages and infiltration issues across its wastewater network, leading to rising maintenance costs and service disruptions. Traditional reactive repairs were proving costly and unsuitable.

Our team implemented a comprehensive network assessment and rehabilitation programme, combining CCTV surveying, flow monitoring, and targeted cleaning solutions. Problematic sections of pipework were re-lined using trenchless technology, while critical chambers and pump stations were refurbished to extend asset life.

This proactive approach resulted in a significant reduction in blockages and emergency callouts, improved system capacity, and greater network resilience. The customer achieved measurable cost savings, enhanced environmental compliance, and increased confidence in the long-term performance of their infrastructure.

Enablement Works

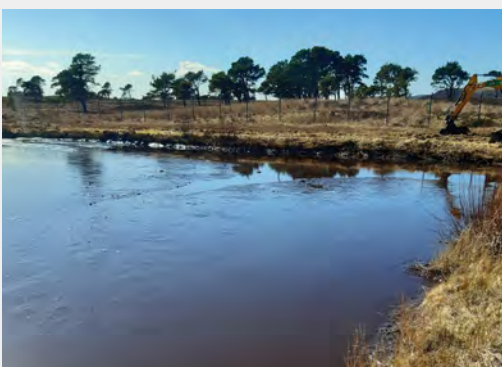


Enva's **experienced teams** provide a **clean** and **safe environment** for enablement works.

Our consultative approach and innovative thinking, combined with high-tech solutions for sludge treatment, dewatering and management, offer environmentally sustainable solutions for pre-construction and refurbishment site services. Non-man entry solutions allow us to operate in live situations, thereby reducing the need for plant downtime and diversion of flow.

Key processes:

- > Primary and secondary settlement tanks
- > Grit channels
- > Aeration systems
- > Tertiary treatment
- > SBR's – Sequential Batch Reactor
- > Sludge driers
- > Chemical tanks
- > Lagoon cleaning and de-watering
- > Confined space entry
- > Emergency rescue
- > Non-man entry techniques
- > Rope access and dive services.



Maintenance



Our water and wastewater treatment services are driven by a **commitment** to help our customers **enhance efficiencies, reduce costs, and maintain compliance.**

Comprehensive solutions for maintaining water and wastewater assets ensure reliable performance and regulatory compliance. Our services include planned, preventative and reactive maintenance, system upgrades, and 24/7 support, all delivered by our experienced team using advanced technology. We are committed to keeping networks running efficiently and sustainably.

Key services:

- > Leak/spill detection
- > Flow monitoring
- > Emergency response
- > CCTV and jetting
- > Primary/secondary settlement tanks
- > Digester cleaning/refurbishment
- > Storm tanks cleaning/refurbishment
- > Pumping stations – wet well cleaning/spill response
- > Detention tanks cleaning/refurbishment
- > Service reservoir cleaning
- > Raw water reservoir cleaning and de-silting
- > Sludge lagoons restoration
- > Chemical tank cleaning
- > Rising main burst/spill response team
- > Pressurised systems
- > Sludge removal and treatment
- > Filter media supply, change out and removal
- > Silo Cleaning
- > End to end solution/waste removal and treatment.



Decommissioning



Enva **subject matter experts** are **experienced** in project managing large scale highly regulated decommissioning, remediation, cleaning and decontamination works.

Our hard-to-handle waste treatment facilities devise waste stream specific chemical, biological and physical decontamination methodologies within a framework of environmental health, safety and compliance.

Key services:

- > Digestors
- > Tanks
- > Grit and sludge de-watering and removal
- > Building demolition
- > Concrete crushing and removal/recycling
- > Aggregate supply
- > Filter media.

Resource Recovery - A Circular Approach

By cleaning and maintaining water and wastewater networks, we not only enhance system performance and water quality but also create opportunities to recover valuable resources. Through innovative treatment processes, we transform waste by-products into renewable energy and organic fertilisers.

This circular approach reduces disposal costs, lowers environmental impact, and delivers sustainable benefits to industries and local communities, helping our customers achieve operational efficiency and environmental responsibility.



Expertise, Solutions and Strategic Partnerships



Providing a **full turnkey service** of **carbon supply, removal, refill** and **waste management** through our licenced facilities.

Our experienced teams deliver end to end water and wastewater solutions, including treatment, equipment, chemicals, laboratory services, monitoring, sludge treatment, and drainage network services.

We have a proven track record of servicing local authority, utility, complex industrial, food and beverage, and pharmaceutical customers, diagnosing and resolving operational issues across UK and Ireland.





End-to-end solutions:

- **Waste removal**
Grit & Screening Waste, Fat, Grease & Oil, Chemicals, Sludge and other hard to handle waste.
- **Water, wastewater & effluent testing**
- **Monitoring FOG removal**
- **Biological augmentation**
- **Ammonia and Nitrate removal**
 - Post toxic shock recovery/reseeding
 - Anaerobic digestion optimisation
- **Bespoke chemical products**
 - Coagulants & flocculants
 - Antifoams & defoamers
 - Phosphorous and heavy metal removal
 - Heavy metal removal
 - Nutrient additives
 - Settlement & alkalinity augmentation
 - Odour controls
 - Sludge conditioning
 - Standard commodity chemicals
- **Activated carbons**
- **Odour abatement**
- **Filtration**
- **Sludge services**
Dewatering, collection, treatment & recovery, and activated sludge monitoring & management.



- **Hazardous waste management**
- **Emergency response**
- **Industrial cleaning**
 - Water storage & Retention tanks
 - Clarifiers
 - Aeration basins
 - Digester

Our business



39 facilities



2000 employees



£400m turnover

For further information please contact
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