Leakage at Artesia

Water companies across the UK have ambitious leakage targets, with an average reduction of 17% for AMP8 alongside the longer term 50% reduction target by 2050. Reaching these targets is essential to ensure a resilient water supply for the future. This can only be achieved through a combination of approaches including smart metering, acoustic logging, smart networks, pressure management, calm networks and improved ALC.

We're very aware of the challenges that water companies face in AMP8. Rapid adoption of new techniques and effective prioritisation is essential in the early years to ensure swift delivery of plans and reductions.

At Artesia we have a long history of supporting companies in **developing effective and optimised leakage strategies**. We are experts in **flow data analytics** and can deliver key insights, tools and models to help drive efficient ALC, and we are a leading provider of **accurate and robust leakage reporting** services to ensure confidence in reported figures.

Effective and Optimised Leakage Strategies

Accurate and Robust Leakage Reporting

Flow Data Analytics

About Artesia

Our mission is to make the water sector more **progressive, inclusive, and resilient**. As leaders in water demand management, we help water companies and regulators track, forecast, and reduce demand with greater accuracy.

We are forward-thinking, knowledgeable, and trusted industry experts, that deliver meaningful solutions to real industry challenges. **We combine water industry expertise and data science to solve complex problems**. We take time to understand what our clients want to achieve. We follow a process to ensure that we deliver the required solution and communicate the outputs in a clear and understandable way.

artesia

Optimised Leakage Strategies

Optimised strategies are essential to deliver leakage reductions. Early action and the optimised deployment of cost-effective interventions will support PR24 target delivery.

Artesia can help you:

- Develop cost effective leakage management strategies and policies that optimise deployment and timing of interventions such as acoustic logging, pressure management and smart metering for maximal benefit and cost effectiveness.
- Provide strategic support, regulatory advice, assurance support and contribute to the production of business plans, investment cases and options.
- Design of trials and implementation of new methods to monitor and deliver tangible reductions in leakage.

Case study:
Assurance of a UK water company's approach to leakage management (Confidential, 2025). Focussed on evaluating how appropriate expected savings were likely to be and evaluating operational performance.

Flow Data Analytics

Better understanding the network and identifying early signs of leakage are critical to reducing awareness time, delivering a cost effective ALC programme and deploying sensors and more expensive interventions.

Artesia can help you:

- Analyse DMA flow data and deliver insights using interactive dashboards and innovative methods. Supported by our suite of leakage analytics tools: SLICE, eVader and eDelta.
- Develop and deploy leakage modelling approaches that identify the network characteristics and scenarios that impact leakage to support decision making.
- Understand smart meter data to improve the sophistication of continuous flow detection and provide techniques for splitting customer side leakage and plumbing losses, to support optimal interventions, targeting of customers and reporting.

Case study:
Factors affecting DMA Leakage (UKWIR, 2026). This used a Bayesian Networks approach to model leakage at a DMA level in relation to a variety of known and unknown factors. The project also developed tactical playbooks to improve ALC efficiency.

Robust Leakage Reporting

Reporting approaches in AMP8 need to deliver confidence in the leakage PCL and meet stricter assurance requirements, whilst remaining relevant with evolving reporting requirements and the rollout of smart metering.

Artesia can help you:

- Accurately report key complex components of the water balance with our pioneering services across household night use, non-household night use and unmeasured per household consumption. Fully compliant with best practice and trusted by auditors and regulators.
- Provide definitive input and best practice to support all elements of your water balance, building on our role organising and facilitating the water balance forum for the past two years.
- New studies and calculations covering all components supported by robust data science processes and industry expertise.

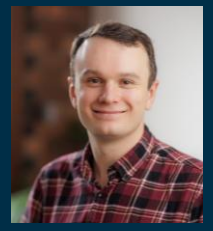
Case study:
Smart metering and night use (Ofwat, 2026). Project for Ofwat developing a potential new leakage reporting methodology to fully exploit smart metering data to improve the calculation of consumption and customer night use.

Get in touch

We're an approachable bunch and enjoy nothing more than talking to our clients to identify where we can help!

Please get in touch with Rhys or Dene if any of the above sparks interest.

Use the QR code to view our case studies.



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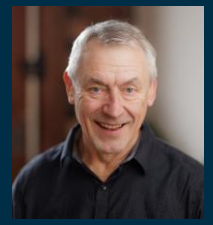
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