Reducing cost & securing compliance for the water industry
About Us

For more than 30 years, we have solved complex challenges for operators, regulators and Government using our Total Quality Assurance. We provide asset solutions that deliver the standards required for rivers, lakes, reservoirs and coastal waters. Our endorsed bespoke solutions help communities by delivering improved environmental outcomes with reduced Total Expenditure (TOTEX).
"Over the last two AMP periods, we have trusted Intertek to deliver water quality studies which needed to overcome significant technical challenges. These have been delivered, and used, successfully to inform business planning."
Linda Hustler, Yorkshire Water, Environmental Regulation and Modelling Manager

**What makes us different**
At Intertek Energy & Water, we have a proven track record in delivering optimised asset solutions to ensure that water companies, regulators and the community benefit from the best environmental return for every pound spent. We are recognised as people who solve complex problems for our clients, whilst reducing costs and securing compliance.
Our Approach

We empower our clients to make informed decisions. Our proven expertise provides validated business insights that enhance transparency, manage risk, safeguard reputations, and create opportunities.
Our overarching Environmental Design Optimisation (EDO) strategy quantifies the proportional contributions of all pollution sources. This allows clients to focus on the key assets, targeting investment to optimise design and operations. Environmental compliance achieved this way minimises costs, carbon and risks.

EDO provides the evidence regulators need to endorse the asset solution and gives operators the confidence that they are creating the best environmental return for every pound spent.

Delivering Environmental Outcomes

At the heart of EDO is our root-cause analysis, which identifies the issues that limit environmental performance. This complex analysis is supported by our suite of endorsed and approved tools, such as

• SOURCE APPORTIONMENT,
• CATCHMENT-OPTIMISER
• STORM-OPTIMISER
• ASSET-OPTIMISER

Our data collation, data collection and the outputs from our tools build a valuable knowledge base. This big data approach is captured in our data management systems (e.g. Web GIS) and forms the basis of a number of operational tools that our clients use to manage their assets, such as

• BEACH PREDICTION (which runs from a modelling/asset database);
• BEACH-FORECASTER (which runs from live regulator data feeds) and
• CONTINGENCY PLANNER (which provides instant impact prediction in the event of asset failure)

All the above provide the evidence to make validated decisions that will deliver the required environmental outcome in the most efficient and effective way.
EDO provides best value solutions for Capital Expenditure (CAPEX) and Operational Expenditure (OPEX). Our proven bespoke tools and methods are tailored to specific regulatory challenges, including:

- Water Framework Directive
- Bathing Water Directive
- Urban Wastewater Treatment Directive
- Habitats Directive
- Integrated Pollution Prevention and Control
- International Convention for the Control and Management of Ships' Ballast Water and Sediments
- Climate change resilience

Our services include

**Regulation**
- Regulatory appraisal and options identification
- Regulator liaison

**Survey and monitoring**
- Feasibility and scoping
- Specification, management and quality control of survey programmes
- Specification, management and quality control of monitoring programmes
- Laboratory Services

**CAPEX and OPEX**
- Planning
- Scope development
- Stakeholder liaison
- Options identification
- Impact assessment and source apportionment (i.e. understanding client contribution)
- Asset optimisation for environmental performance
- Best value asset solutions

**Other**
- Expert Witness Services