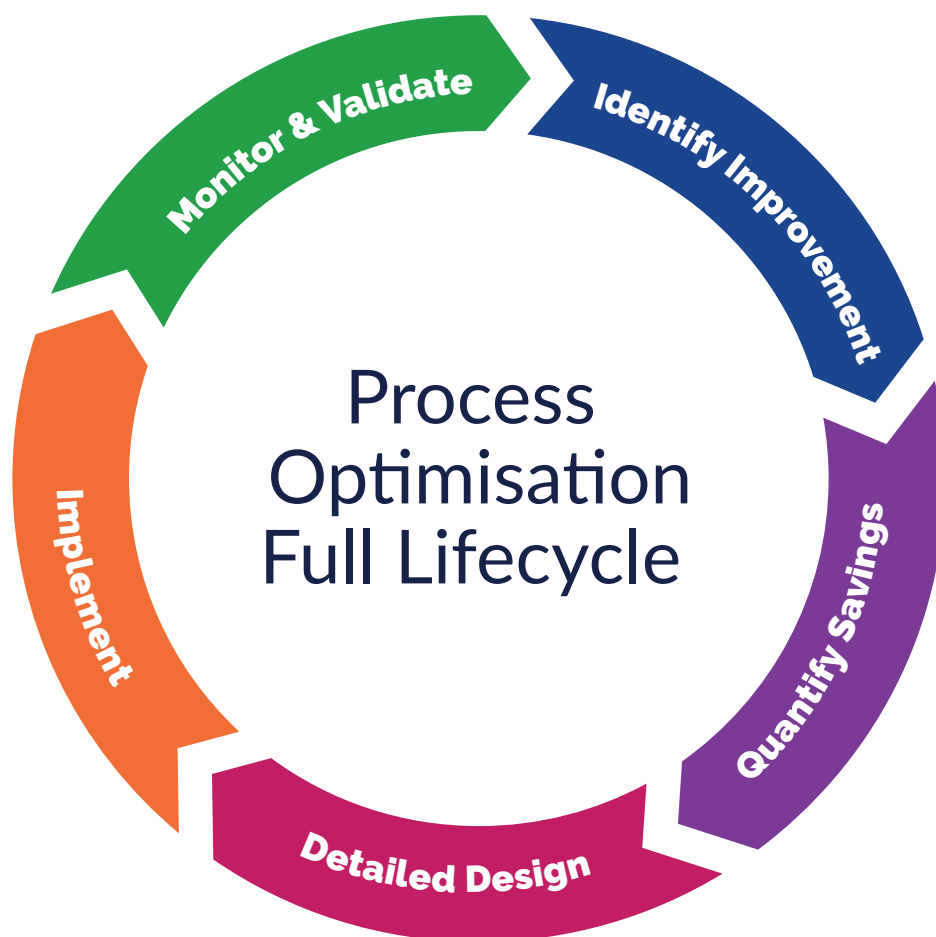




Distilling

*Smart Engineering & Operational
Efficiency Solutions*

 **Arthian**



Engineering & Sustainability Solutions for the Drinks & Distilling Sector

Helping distillers reduce costs, optimise performance, and future-proof operations in a challenging economic climate.

With rising operational costs, and sustainability pressures, distillers are being asked to do more with less. Our integrated services help clients spend wisely—delivering measurable savings, streamlined operations, and long-term resilience.

Smart Process Design, Optimisation & Delivery

Designing systems that work harder, smarter, and more efficiently.

We help clients optimise every stage of their production process—from feasibility to commissioning our process engineers deliver tailored solutions that reduce waste, improve throughput, and minimise costly retrofits.

Our process engineering services include:

- Feasibility Studies
- FEED Studies
- Plant Optimisation
- Equipment Sizing
- Energy and Mass Balances
- Venting and Relief Valve Calculations
- Control Philosophy
- Process Flow Diagrams (PFDs)
- Piping & Instrumentation Diagrams (P&IDs)
- Plant Layout
- Heat Recovery Assessment & Design
- Clean in Place (CIP) Design
- Contractor Engagement
- Installation Support
- Commissioning / Start Up Support



Smarter design reduces waste, improves throughput, and minimises costly retrofits.

Resilient Infrastructure & Utilities



Building facilities that support growth, efficiency, and compliance.

Our teams deliver robust infrastructure and utility systems that reduce maintenance costs and improve operational uptime.

Services include:

- » Structural Design & Modifications
- » Foundations, Containment & Hardstandings
- » Effluent & Water Treatment Systems
- » Ventilation & HVAC Planning
- » 3D Laser Scanning & topographical Surveys

Energy & Carbon Optimisation



Cutting energy bills while meeting sustainability goals.

We help distillers transition to cleaner energy, optimise demand, and unlock hidden savings through smart metering and system upgrades.

Services include:

- » Net Zero & Energy Transition Planning
- » ESOS/SECR/CSRD Compliance & ESG Strategy
- » BeMS Optimisation
- » Private Wire Optioneering
- » Solar, Wind & Hydrogen Integration
- » Pinch Technology & Heat Recovery Systems
- » Sub-Metering & Demand Analysis

Safety, Environment & Compliance



Protecting people, assets, and reputation—without overspending.

We deliver safety and environmental solutions that meet regulatory requirements while supporting efficient, low-risk operations.

Services include:

- » HAZOP, LOPA, DSEAR & COMAH Support
- » Noise, Vibration, Air Quality & Peat Management
- » Environmental Permitting & Legal Compliance
- » Hazardous Substance Consent & Risk Assessments
- » ESG & Environmental Management Systems
- » Operator Training & Safety Audits

From Peat to Permits: We've got you covered

Natural Resource Management

Services include:

- » Peat Management & Restoration
- » Water & Wastewater Solutions
- » Resource Efficiency & Circularity

Regulatory Compliance & Permitting

Services include:

- » Pollution Prevention & Control (PPC)
- » Environmental Monitoring & Legal Support
- » ESG Strategy & Environmental Management Systems

Community & Environmental Impact

Services include:

- » Noise, Vibration & Air Quality Assessments
- » Waste Reduction & By-product Recovery
- » Stakeholder Reporting & Sustainability Metrics

Water & Wastewater Management

Services include:

- » Water Efficiency Audits
- » Leak Detection & Infrastructure
- » Flow Measurement & Data Profiling
- » Tariff Optimisation & Meter Verification
- » Water Mass Balance & Permit Support
- » Sustainable Water Reuse & Drainage
- » Effluent Treatment System Design & Optimisation





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