

Ian Dunsmore

Technical Team Manager, Strategic Water Infrastructure

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Strategic infrastructure leader with more than 25 years' experience across the UK and New Zealand water sectors. I currently lead strategic planning for nationally significant water infrastructure and a geographically distributed team of seven planners.

Key achievements

- **First-of-kind delivery:** UK's first sewage heat recovery at Borders College; Green Gown Award 2017; Scottish Green Energy Award 2018.
- **Portfolio leadership:** £100M+ capital portfolios for trunk mains, aqueducts, tunnels and subsea pipelines.
- **Network resilience:** Backfeed capability assessed for every Water Operational Area serving more than 15,000 properties.
- **Failure prediction research:** Random Forest LoF proof of concept on ~30,000 synthetic pipes; Analytics team progressing testing.
- **Strategic influence:** Staged, reversible alternative proposed at Milngavie (potential benefit, not realised).
- **Leakage transformation:** Led creation of 100+ DMAs serving 150,000+ properties.
- **International:** Water Engineer, Timaru District Council, New Zealand.

Professional experience

Technical Team Manager - Strategic Water Infrastructure

Scottish Water · July 2021 – Present

- I lead a team of seven planners across trunk mains, aqueducts, tunnels, subsea pipelines and critical valves.
- I direct consultant resources and external partners across a £100M+ portfolio.
- I led the team through organisational change and constrained investment.
- I initiated Random Forest research for pipeline likelihood-of-failure prediction.

Strategic Planner - Water Resilience

Scottish Water · May 2018 – July 2021

- I analysed and confirmed network backfeed capabilities to strengthen supply resilience.
- I delivered capital projects from targeted interventions to £50M strategic investments.

Project Manager - Business Development

Scottish Water Horizons · April 2015 – May 2018

- I project managed the UK's first sewage heat recovery installation at Borders College.
- I introduced telemetry-linked temperature monitoring to test operational concerns.

Earlier Scottish Water roles

Scottish Water · 2007 – 2015

- Leakage planning and delivery (100+ DMAs / 150,000+ properties), water balance, operational risk, hydraulic modelling and asset planning.

Water Engineer

Timaru District Council, New Zealand · 2005 – 2007

- I managed daily water supply operations and hydraulic modelling for the district.

Earlier career

Scottish Water and RPS Water Services · 1998 – 2005

- Network analysis, hydraulic modelling and water infrastructure consultancy.

Education

BEng (Hons) Civil Engineering — Heriot-Watt University, Edinburgh (1994 – 1998)

References available on request.