

## Hydro-Logic™ Smart Monitoring network helps Welsh Water manage resources

### Project profile

#### Objective

To design, install, operate and maintain a nationwide Smart Monitoring network for reservoirs and waterways across Wales.

#### Solution

Dŵr Cymru Welsh Water engaged the Hydro-Logic™ Services team to implement and manage a Hydro-Logic™ Smart Monitoring system to track reservoir levels and river flows across the whole of Wales.

### Product profile

- Smart Monitoring of water levels and flow
- Remote, autonomous operation, automatic data transmission
- Daily data capture, monthly processing and delivery
- System designed, installed, operated and maintained by Hydro-Logic™ Services experts

As a public water supplier, Dŵr Cymru Welsh Water has to balance current and future water supply and demand while adhering to environmental compliance regulations established by the UK Environment Agency.

Environmental obligations include making provision for minimum flows to support fish and other wildlife, as well as sufficient water downstream for other users.

Dŵr Cymru Welsh Water identified a need to monitor its network, but realised that design, implementation and ongoing operation of such a large integrated network—with a range of remote sites—was complex, and required specialist expertise.

They approached Hydro International's Hydro-Logic™ Services team, who used more than 100 Hydro-Logic™ Level Loggers and Hydro-Logic™ Flow Loggers to develop a comprehensive Smart Monitoring system.

The system operates remotely, automatically collecting water level and flow data at daily intervals and transmitting it wirelessly to servers where it is stored for monthly processing and delivery.

Data checks are performed daily using the Hydro-Logic™ Timeview online platform to identify any local operational issues, and all data collection sites are managed and maintained by the Hydro-Logic™ Services team.

The network provides information on compensation flows and river flow as well as reservoir and borehole levels, enabling Dŵr Cymru Welsh Water to conduct both effective operational management and forward-looking water resource planning and asset management.



*Understanding reservoir levels is critical to Dŵr Cymru Welsh Water's ongoing water resource planning*



*The Dŵr Cymru Welsh Water network contains a range of remote sites*