



Case study:

Multiple screen installations in Scotland

Scotland has the bulk of the UK's hydro capacity, and as a consequence a large number of AquaShear screens have been installed in the country. As well as small single-screen sites, there are now more than half a dozen multiple screen intakes, including those for the Glendoe project.

Garrygualach (1,350 l/s) was the first large UK installation, commissioned in 2002. This was npower's first Coanda intake, followed in 2004 with Inverbain (1,470 l/s), and Braevallich (several separate intakes totalling 2,370 l/s). 2004 also saw the installation of screens at the privately developed Kinglas hydro scheme (1,820 l/s).

Douglas Water (2,240 l/s) and River E (1,540 l/s) were installed in 2007, again for npower, with both intakes featuring the fully welded Type AB design for added strength.

The 100MW Glendoe Scheme, constructed during 2007 and 2008, also features AquaShear screens at the majority of its fifteen intakes, with a total capacity of over 10,000 l/s.

"The availability and generation of the scheme will now be increased significantly, and the new screens will need cleaning once per month, rather than up to 3 times per day."

Dylan Roberts, Dulas Ltd

Recent Projects include:

Glenmoriston Hydro Schemes

The concurrent installation of two high head run of the river hydro schemes: Allt an Eoin 450kW and Balnacarn 700kW. The schemes include four intakes and a total of 3.5km of ductile iron and PE pipe.

Innerhadden 1.4MW Hydro Scheme, Perthshire

The refurbishment of two intakes on a 1.4MW hydro scheme near Kinloch Rannoch including installation of two new AquaShear Coanda Screen intakes and air valves to improve pipeline performance. The service included full feasibility, consenting, construction, installation and commissioning.



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