

Project Profile



Project Title	Douglas Water Hydro Scheme
Client	Pierse Contracting Limited / RWE NPower
Project Value	£2.5m
Contract Conditions	ECC Option A
Duration	100 weeks
GHA Livigunn Services	Civil & Structural Engineering, Architectural Detailing, Flood Risk Assessment, Hydraulic Design

Description

3MW hydro-electric power station located in the mountains above Inverary, Scotland. The scheme consists of 2 reinforced concrete intake weirs connected to a Powerhouse Building by a 2.4km long pipeline. This was designated as 1200mm diameter ductile iron reducing to 1000DN diameter further along the pipeline. The 2.4m³/s design flow will generate electricity through dual Pelton turbines located in the Powerhouse Building.

The water discharges back into the local watercourse through a tailrace structure design to dissipate energy and prevent scour of the river bed.. As well as the design of the intake weirs, powerhouse and pipeline, works included permanent access roads, thrustblocks, chambers and culverts.

Cheadle

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