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TGVHydro ref 12074



System Specification

Client	Glasnant Morgan
System Location	Pwll yr Hywaid Farm, , Talybont on Usk Powys LD3 7YS Cwm Cwy
Watercourse	
Initial design & permissions by	TGVHydro ltd. www.tgvhydro.co.uk
Detailed design & Built by	TGVHydro ltd. www.tgvhydro.co.uk
Turbine supplied by	Hydrolite, 01792 448747
Control Unit supplied by	SCS, www.sustainablecontrol.com
Commission Date	11 th August 2015
Installed Capacity/maximum export	46kW
Phases	Three
Peak static head intake to turbine	114m
Peak flow dynamic head intake to turbine	106.8m
Pipe type/external diameter	Grade 100PE / 280mm
Pipe length /pressure rating.	1,700m (900m SDR 26, 550m SDR17 and 250m SDR11 pipe.)
Export arrangement	Three phase grid connection within Turbine house.
Export cable	220m of buried four copper core SWA cable (95mm ² /core) with SWA as earth
Export payment based on	Metered export.
Abstraction Licence from	Natural Resources Wales
Date - Reference number	29 th August 2014 - WA/056/0041/003
Expires	31 st March 2026
Regime summary	80% of flow above Hands of Flow up to maximum abstraction.
Abstraction flow limits	51 litres per second 4,406.4 cubic meters per day 1,608,336 cubic meters per year
Hands Off Flow	11 litres per second
Screen	3mm perforations in screen
Abstraction OS grid location	SO 08942 22399
Discharge/Turbine house OS grid location	SO 10458 22451
Impoundment licence from	Natural Resources Wales
Date - Reference number	29 th August 2014 - WA/056/0041/006
Expires	n/a
Planning Permission from	Powys County Council
Date - Reference number	16 th June 2014 - 14/10653/FUL