



Natural Resources Wales,
Permitting Services,
Ty Cambria, 29 Newport Rd,
Cardiff, CF24 0TP

NGW Hydro
Abercynafon Farm
Talybont on Usk, LD3 7YT.

NRW Ref: **WRDCGE1105**

8th May 2026, Our ref: 09001

Dear Permitting Services

Full Application for Micro Hydro System on Nant y Wenynen Watercourse, Llangynidr, Powys

Dyffryn Crawnon Green Energy CIC (DCGE) are applying to Natural Resources Wales (NRW) for a new abstraction licence and a new impoundment licence relating to an existing, but mothballed, micro hydroelectric scheme on the Nant-y-Wenynen watercourse in the Dyffryn Crawnon valley near Llangynidr in Powys.

Since 2015 DCGE operated the micro hydroelectric scheme as covered by the original abstraction licence WA/056/0038/001 and original impoundment licence WA/056/0038/002. The original 2012 licences were reissued on the 14th March 2013 to take into account a slight change in the position of the turbine house and outfall pipe (all other details remained the same).

For a variety of reasons, the 2012 and 2013 licences were held by TGVHydro Ltd. (the designers and builders of the scheme). TGVHydro Ltd ceased trading several years ago. During the winding up process for TGVHydro Ltd. the transfer of the above licences to DCGE did not take place. Towards the end of 2025 NRW became aware that TGVHydro had been wound up without transferring the licences. At this point NRW cancelled the original licences (back dated to February 2025).

The micro hydroelectric scheme is currently mothballed because there is no valid abstraction licence and there is no valid impoundment licence.

DCGE wish to continue to operate the scheme and are applying for new licences for the same basic scheme using the same installed structures, pipes and mechanical/electrical equipment (although abstraction regime, and thus intake, are to be amended to suit current NRW guidelines).

In general terms the high head micro hydroelectric scheme follows a traditional layout.

- A small concrete impoundment dam wall across a hill stream,
- Water for abstraction flowing over a weir section into a screened intake box/forebay tank (hands off flow and percentage to remain in stream being protected),
- Abstracted water flowing through penstock to turbine house,
- Abstracted water turning a turgo turbine with direct linked 240v generator,
- Electricity exported to the grid.
- Water returning to stream.

Total fall is about 134m with a depleted reach along the stream line of about 610m (similar penstock length).

The watercourse is high up in the catchment area and the overall scheme slope is greater than 10%. Previously the Environment Agency Wales confirmed that no fish easement would be required and there were no significant environmental or biodiversity issues that needed to be addressed (see **Document E 2011 EA letter with relevant comments for 2026 applications**). Thus, the abstraction being applied for therefore follows a Zone 3 regime (Q95 hands off flow, Qmean abstraction,

70%/30% split of flows), and with no requirement for the intake dam to have a fish pass or easement.

Further details of the scheme, existing structures and anticipated works can also be found in **Document B: Design and construction statement**, and in **Document D: Geomorphology photo survey**.

We have had various conversations with Charlotte Lillywhite (NRW Senior Permitting Officer). Due to the similarity with the previous scheme, and the fact that DCGE are apply for an abstraction regime that follows the current NRW guidance, it was agreed that a pre-application would not be advantageous and moving straight to a full application seemed the best course.

As part of the application process we will be uploading the documents and drawings listed below.

Doc Ref.	NRW Application supporting document
A	Covering Letter to NRW. THIS DOCUMENT.
B	Design and construction statement.
C	Supplementary information sheets for NRW forms.
D	Geomorphology photo survey.
E	2011 EA Letter with relevant comments for 2026 applications.
F	Rights of access lease.

Drawing Ref	NRW Application drawings
09001/01/F	Site plan and pre-2015 intake details (A3)
09001/02/F	Existing post-2015 intake details (A3)
09001/03/G	Existing turbine house and outfall (A3)
09001/06/A	Proposed intake details (A3)
09001/07/A	Extent of land access rights (A4)
09001/08/A	OS map of site (A4)

Should you require any other information please do not hesitate to get in contact.

Yours sincerely

Nick Willson

Email: NGWHydro01@gmail.com

Phone/WhatsApp: 07415700264