

Apply to renew or change an abstraction or impoundment licence (WRI)

Type of variation/renewal

Indicate the change(s) you wish to make to your licence(s) here.

Same terms renewal (where no environmental or other concerns have been raised in your renewal reminder letter)

The licence(s) you want to change/renew

Provide the licence serial number(s) which the proposed change/renewal relates to

WA/065/0018/019

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Application fee

Please indicate how you wish to pay your application fee. If paying by BACS, please quote the reference number created when setting up the bank transfer.

If paying by cheque, please ensure you add the six digit cheque number below.

BACS

Please add your BACS reference below

516128

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work remediation work, to prevent and reduce environmental damage requested by us?

No

Are you making this application as part of an agreement to trade water rights? Water rights trading is where a Licence Holder sells all or part of their abstraction licence rights, permanently or temporarily, to another person.

No

Provide details below

Renewal of existing abstraction licence with no material changes to the quantity or method of abstraction

Existing Licence Holder details

Provide details of the existing Licence Holder.

Full Name	Ynni Ogwen Cyfyngedig
Company, Charity or Trading Name	Ynni Ogwen Cyf
Company or Charity Registration Number	7222

Registered Address

Building and street	26A High Street Bethesda
Town and City	Bethesda
County	Gwynedd
Postcode	LL57 3AE
Office Telephone Number	01248 602131
Mobile Telephone Number	07778 871645
Email Address	garethcemlyn@btinternet.com

Details of individual or agent authorised to act as a point of contact

This is who we will correspond with unless otherwise informed. If an agent signs on behalf of an applicant, a letter of authorisation from the applicant is required

Full Name	Gareth Cemlyn Jones
Company, Charity or Trading Name	Ynni Ogwen Cyf
Company or Charity Registration Number	7222

Registered Address

Building and street	26A High Street Bethesda
Town and City	Bethesda
County	Gwynedd
Postcode	LL57 3AE
Office Telephone Number	01248 602131
Mobile Telephone Number	07778 871645
Email Address	garethcemlyn@btinternet.com

Specify who we should contact with regard to

	Applicant	Agent
Operations (on site) contact	X	
Invoice contact	X	

Details of individual authorised to act as abstraction records (returns) contact

Specify who we should contact regarding abstraction records (returns)

Existing returns contact

Are you applying to apportion your licence? Find an explanation of apportionment on our website.

No

Are you applying for a simple change?

No

Same terms renewal

Are you applying for a same terms renewal?

Yes

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below.

If your water usage has been lower than your licensed volumes, you will need to provide additional information to demonstrate your continued need for the water, for example, additional justification or a Business Case.

Quantity is based on converting the measured electrical output into flow using NRW HAF formula, taking due regard of the operational head and component efficiencies. Generation output is measured using an industry certified meter within the powerhouse. The hydro operates continuously through the autumn and winter when river level and flows are high. Generation reduces during spring and summer with some periods of shut down (typically 30 - 40 days total) during the summer months.

The quantity abstracted is based on the integrated control system maintaining the appropriate generation output based on the river level and flow, within the licensed volumes. Since commissioning in 2017 the generation and abstraction recorded are in agreement with the design predictions and validate the the turbine selection. No changes to the licensed abstraction is called for.

Additional document. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: FDC_CNC.xlsx - [Download](#)

	% abstraction and zone applied for	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres squared)	Net head between abstraction and discharge points (metres)
	Zone 2 50%	6%	-	17.6

	Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)
	82	72 (includes turbine, geartrain and generator)	100	500

State the length of depleted reach (in metres)

300

Provide the flow data (in cubic metres per second) & ratios specified below:

Q95 0
Q10 0.75
Qmean 0.49
What is the ratio of Q95:Qmean? 0
What is the ratio of Q10:Qmean? 1.53

What low flow protection (Low flow protection is the flow rate above which abstraction can begin and is separate to the abstraction % take) do you propose to maintain in the depleted reach when the hydropower scheme is operating (in m³/s)?

>0.251

Provide details of what measures you provide to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practise.

The design of the intake provides a 50-50 split in the river flow. Half the flow is available for hydro generation, with the remainder plus any residual flow from the turbine intake flowing directly into the river immediately downstream of the intake. The maximum licensed abstraction represents about 32% of the mean river flow. The generation flow passes directly into an enclosed sump before entering the penstock and flowing through the turbine to discharge back into the river immediately downstream of the powerhouse. No water losses occur between the intake and the outfall.

Different terms renewal

Are you applying for a different terms renewal

No

Signatures: existing Licence Holder (for all changes), and proposed Licence Holder(s) for Transfers and Apportionments

Existing Licence Holder's signature

Full Name Gareth Cemlyn Jones
Position Chairman
Signature G C Jones
Date 24/12/2024

Would you like a copy of your submission?

Yes

Your email address

garethcemlyn@btinternet.com