

# Apply to renew or change an abstraction or impoundment licence

## 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/065/0005/0006

WA/065/0005/0007 is the impoundment licence which goes with this

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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

Ffridd Uchaf Hydro

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

n/a

## Existing Licence Holder details

Provide details of the existing Licence Holder.

<b>Full Name</b>	Ffridd Uchaf Hydro Ltd
<b>Company, Charity or Trading Name</b>	Ffridd Uchaf Hydro Ltd
<b>Company or Charity Registration Number</b>	11427910

#### Registered Address

<b>Building and street</b>	The Classroom, Plas Einion Furnace
<b>Town and City</b>	Machynlleth
<b>County</b>	Powys
<b>Postcode</b>	SY20 8PG
<b>Office Telephone Number</b>	07765996581
<b>Mobile Telephone Number</b>	07765996581
<b>Email Address</b>	Nick@NBHydro.co.uk

## 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

<b>Full Name</b>	Nick Bard
<b>Company, Charity or Trading Name</b>	Ffridd Uchaf Hydro Ltd
<b>Company or Charity Registration Number</b>	11427910

#### Registered Address

<b>Building and street</b>	As above -
<b>Town and City</b>	-
<b>County</b>	-
<b>Postcode</b>	-
<b>Office Telephone Number</b>	-
<b>Mobile Telephone Number</b>	-
<b>Email Address</b>	-

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.

Calculation volumes have been calculated by multiplying the peak abstraction rate in the licence by 3600 s/hour and 24 hour/day and 365 days per year.

	<b>% abstraction and zone applied for</b>	<b>Average gradient of depleted reach (%)</b>	<b>Catchment size above abstraction point (kilometres squared)</b>	<b>Net head between abstraction and discharge points (metres)</b>
	70% above Q95	10%	3.4	72.5

	<b>Turbine efficiency (%)</b>	<b>System efficiency (%)</b>	<b>Maximum power output (kilowatts)</b>	<b>Annual capacity (kilowatt hours)</b>
	80%	73%	100kW	430,000kWh

State the length of depleted reach (in metres)

710

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

**Q95** 27 l/s  
**Q10** 725 l/s  
**Qmean** 293 l/s  
**What is the ratio of Q95:Qmean?** 0.092  
**What is the ratio of Q10:Qmean?** 2.47

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 m<sup>3</sup>/s)?

27 l/s which is the Q95 and licensed amount

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.

High efficiency, multi jet Turgo turbine used.  
 Pipe sized for low frictional losses  
 High efficiency generator  
 Automatic head sensor control to make best use of available water  
 Regular monitoring and pigging of pipe to maintain efficiency

## 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	
<b>Full Name</b>	Nick Bard
<b>Position</b>	Director
<b>Signature</b>	Nick Bard
<b>Date</b>	18/10/2024

Would you like a copy of your submission?
Yes

Your email address
nick@nbhydro.co.uk