

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/065/0019/014

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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

Anafon Renewal

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

This is a simple, same terms renewal.

Existing Licence Holder details

Provide details of the existing Licence Holder.

Full Name	Ynni Anafon Energy Cyf
Company, Charity or Trading Name	Ynni Anafon Energy Cyf
Company or Charity Registration Number	IPS 32406 R

Registered Address

Building and street	Yr Hen Felin Abergwyngregyn
Town and City	Llafairfechan
County	Gwynedd
Postcode	LL33 0LP
Office Telephone Number	01248 680383
Mobile Telephone Number	07799 790061
Email Address	gatehouse@fastmail.fm

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	Ynni Anafon Energy Cyf
Company, Charity or Trading Name	Ynni Anafon Energy Cyf
Company or Charity Registration Number	IPS 32406 R

Registered Address

Building and street	Yr Hen Felin Abergwyngregyn
Town and City	Llanfairfechan
County	Gwynedd
Postcode	LL33 0LP
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Mobile Telephone Number	07799 790061
Email Address	gatehouse@fastmail.fm

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.

The water is for a hydropower scheme.

Max hourly abstraction (Design flow x 3600 sec): 165 l/s x 3600s = 594 cubic metres

Max daily abstraction (Max hourly abstract x 24h): 594cubic metres x 24h = 14,256 cubic metres

The average annual abstraction was calculated using a LowFlows flow duration curve combined with turbine, generator, transmission and penstock efficiencies. This average abstraction was then multiplied by a factor of 1.73 to allow for wetter than average years, leading to the maximum annual abstraction of 4,400,000 cubic metres.

	% 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)
	40% Zone 1	7%	5.05	231m (elevation diff between intake & outfall)

	Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)
	88	84	271	980000

State the length of depleted reach (in metres)

3300

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

Q95 0.028
Q10 0.663
Qmean 0.276
What is the ratio of Q95:Qmean? 0.1
What is the ratio of Q10:Qmean? 2.4

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)?

0.028

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.

A high efficiency pelton turbine and induction generator are being used.

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	Alexander Gavin Gatehouse
Position	Chair
Signature	A G Gatethouse
Date	19 November 2024

Would you like a copy of your submission?
Yes

Your email address
gatehouse@fastmail.fm