

# FORM WRA: Applicant details and proposal outline

## Application type and fee

Please generate a reference number. It should start with "WR" followed by your organisation or company name and today's date in four-digit format (DDMM) without spaces or punctuation.

Example: WRNATURALRESOURCESWALES1101

Please use this use this number throughout this application. This reference number can also be used for your BACS reference if paying electronically.

WRDYLANJONES1803

For the application types listed, complete this form and/or the relevant additional forms named below. Tick the type of application you are applying for. Please refer to our Find out if you need a licence web-page for an explanation for the different licence types. If your proposal involves multiple licence types, tick all that apply.

See our Charges for abstraction and impoundment applications web page for details of application fees and how to pay.

New full abstraction licence. Also complete form WRD.

New impoundment licence. Also complete form WRE.

Please indicate how you wish to pay your application fee. If paying by BACS, please quote the reference number created in question 1 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

WRDYLANJONES1803

## Applicant details

Applicant type

Individual

Applicant details

**Full Name** Ifan Wyn Jones

**Company, Charity or Trading Name** IW & OM Jones

**Company or Charity Registration Number** N/A

#### Applicant Registered Address

**Line 1** Ty Mawr  
**Line 2** Mallwyd  
**Line 3** Machynlleth  
**Line 4** -  
**Postcode** SY20 9HS

#### Applicant Contact details

**Office Telephone Number** 01650 531253  
**Mobile Telephone Number** 07817 707820  
**Email Address** dwj4@hotmail.co.uk

Please indicate who we should contact regarding operation of your site, this should be the person responsible for the day to day running of the operation.

	Applicant	Agent
Site operations contact	X	

For applications for abstraction licences, please also specify who we should contact for invoices and abstraction records (returns).  
Not necessary for temporary or transfer licence applications.

	Applicant	Agent
Invoice address	X	
Abstraction records contact	X	

### Details of agent or individual authorised to act as application contact

#### Use applicant contact details

No

#### Application details

**Full Name** Liam Brown  
**Company, Charity or Trading Name** Greeneearth Hydro Limited  
**Position in Company** Managing Director

#### Applicant Registered Address

**Line 1** Siop Newydd

**Line 2** Rhiw

**Line 3** Pwllheli

**Line 4** -

**Postcode** LL53 8AE

#### Applicant Contact details

**Office Telephone Number** 01691648378

**Mobile Telephone Number** 07980670046

**Email Address** liam@greenearthhydro.co.uk

### Entitlement to apply (not required for impoundment licence applications)

Does the applicant have a legal right of access to the point of abstraction?

Owner

Site map showing abstraction points

- File: 230209LB01-v2 Site Layout (A1).pdf - [Download](#)

For abstraction licence applications where you are the landowner, provide a map with the land boundary and all abstraction and discharge point(s) marked.

Please tick here to show that you have done this.

### Pre-application number

Have you undertaken a pre-application enquiry or had any previous discussions with us?

No

### Remediation work

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work requested by us?

No

## Source of supply

State where you intend to abstract from

Surface Water. e.g. Stream, leat, spring

Provide a 12 digit National Grid Reference for the proposed or existing abstraction or impoundment point (e.g. ST 19057 76826)

SH 90071 11071

Source of supply (name of watercourse or aquifer)

Nant Llyn

Site name / reference  
(e.g. Tŷ Mawr Farm)

Ty Mawr Hydro

## Proposal summary

Please provide an outline of your proposal, including any sketches.

As a guide, you should include: a description of the activities which (will) take place at your site, the means of abstraction/impoundment proposed, if the proposal is related to another licence or permit (i.e. an Environmental Permit to Discharge Water) and details of any survey work undertaken. For changes to existing licences, summarise the changes proposed. Sketches or photographs that will aid our understanding of your proposal can be uploaded below.

The hydropower scheme proposed is 34.0kW and will produce an estimated 124,000 kWh (units) of electricity per year sufficient for 43 average UK homes. This will be a grid connected scheme. One intake weir is proposed on the Nant Llyn (at SH 90071 11071). The intake weir will be built from reinforced concrete. It will have a coanda screen with 1.3mm apertures. A 355mm diameter black HDPE welded pipe (penstock) will run from the intake weir to the power house (at SH 89393 11369) and will be approximately 776 metres long. The turbine type proposed is a turgo. The power house will be steel framed structure with a reinforced concrete floor slab. Its finished floor level will be approximately 2.0m above the bedrock level in the adjacent watercourse. The turbine will be turned on and off automatically depending on the water level in the intake chamber. The flow rate, and hence the turbine power, will be modulated using two spear valves on the turbine.

A 'hands off flow' (HOF) rectangular notch will be incorporated in the intake weir and, until the HOF has been satisfied, no water will be abstracted. In addition to this the proportional take, in excess of the HOF, is proposed to be 50% and this will be ensured by the screen's width being 50% of the full weir crest's width.

The abstracted water will be discharged back into the Nant Llyn via a head wall structure (outfall) at SH 89383 11367.

## Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

**Signed** Ifan Wyn Jones

**Print name** Ifan Wyn Jones

**Position** Owner

Date

\* 22/03/2023

Would you like a copy of your submission?

Yes

Your email address

dwj4@hotmail.co.uk