

# Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

## Application type

Reference number (The number you generated in form WRA). Example:  
WRNATURALRESOURCESWALES1101

WRSTATKRAFTENERGYLIMITED2710

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.

>100kW

Are there any applications currently being assessed by us that are linked to this application?

Yes

Is the proposed abstraction going to be aggregated with another existing abstraction?

No

## Linked applications

Please confirm how this application is linked to the other application(s)

Example: this application could be one of multiple abstractions and/or impoundment licence applications at the same site. The proposal could involve water rights trading, or this application could be linked to another application for a previously exempt activity.

Change of wording on Abstraction Licence 23/64/9/0003

Linked application numbers

WRSTATKRAFTENERGYLTD2710

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Are any applications, at the same site; being assessed by the Environment Agency?

No

Tell us when you want your abstraction licence to end: [DD/MM/YY]

no end date

If you require a shorter or longer duration licence, please provide details and your justification

Licence is to remain in force until it is revoked under the 1955 North Wales Hydro Electric Act

## Abstraction details

Abstraction location name/reference

Llyn Penrhaeadr

Abstraction point type

Single point

National Grid Reference

SN7514994160

Downstream National Grid Reference (If abstracting from a reach), or corners of the area.

SN7524693903

SN7575493568

SN7519393025

-

Do you have any further points of abstraction?

No

## Means of abstraction

Please upload your drawings and calculations here. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: 2727 C 719 DETAILS OF INTAKES AND OUTFALL TO LLECHWEDD MAWR.pdf - [Download](#)

## Abstraction quantities

Abstraction location name/reference

Llyn Penrhaeadr

What purpose will the water be used for?

Transfer of water to Nant y Moch Reservoir at National Grid Reference SN 75360 86200 and subsequent re-abstracted as authorised by licence serial number 22/63/1/0024 Variation 1 for the generation of electricity.

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

**Annual** 7 000 000

**Daily** 56 000

**Hourly** 2333

Peak abstraction rate (in litres per second)

648

Number of hours of abstraction per day

24

Add quantities for another location?

No

## Calculations and supporting information

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 proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.

All of the abstracted water flows into the Nant y moch reservoir for subsequent re-abstraction as authorised by licence serial number 22/63/1/0024 Variation 1 for generating Hydro-electric power.

See current licence No 23/64/11/008 for all Calculations and Supporting Information as these remain unchanged.

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

- File: 2364110008 Llyn Penrhaeadr Determination Abstraction Licence Signed PDF R.pdf - [Download](#)
- File: 226310024 Variation 1 Hydro Scheme.pdf - [Download](#)

## Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.

Meter

## Water efficiency

Provide details of what measures you provide or intend to implement, 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 practice.

All of the abstracted water flows into the Nant y moch reservoir for subsequent re-abstraction as authorised by licence serial number 22/63/1/0024 Variation 1 for generating Hydro-electric power.

## Fish and eel considerations (surface water abstractions only)

Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse. For further guidance on appropriate screening Intake screening for fish

	Intake	Outfall
Type of fish screen	Vertical Bar Trash screen	Open Pipe
Screen aperture size (mm)	Typically 92mm	533mm

Confirm the fish species present at your site. If you're not proposing any measures to protect fish and eels, you must justify this. For example, we may have confirmed in our pre-application response that the intake is inaccessible to fish or you undertook a fish survey to confirm.

Unknown.  
The aqueduct has been in operation for more than 60 years.

## Discharge details

If you intend to return any of the abstracted water to the environment, provide details below. Details of discharge location(s) should correspond with any maps submitted. Do not include discharges to a public sewage system.

Discharge location name / reference	National Grid Reference of discharge point (12 digit)	Total volume to be discharged (cubic metres)	Environmental Permit for Water Discharge Activity number (if applicable)
Outfall into Llyn Penrhaeadr	SN 75423 93483	100% of abstracted	-
Outfall into Llyn Penrhaeadr	SN 75482 93452	-	-
Outfall into Afon Llechwedd Mawr	SN 74959 92652	-	-
-	-	-	-

Provide a description of the structure and equipment involved in discharge.

Outfall into Llyn PenRhaeadr via 18" (457mm) diameter pre-cast concrete pipe.  
Outfall into Llyn PenRhaeadr via 15" (381mm) diameter pre-cast concrete pipe.  
Outfall into Llechwedd mawr via 21" (533mm) diameter pre-cast concrete pipe.

## Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists. Your local authority's environmental health will hold details of exempt domestic abstractors.

There are no known nearby abstractions of water that are affected by this abstractions.

## Planning application

Have you sought advice on your planning application?

No

## 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** Dennis Geyermann  
**Print name** Dennis Geyermann  
**position** Statkraft Energy Limited Director

If an agent is to sign on behalf of the Licence Holder, a letter of authorisation from the Licence Holder is required.

- File: Letter of authorisation for NRW 10\_2021.pdf - [Download](#)

Date

\* 27/10/2021

Would you like a copy of your submission?

Yes

Your email address

gareth.jones@statkraft.com