



# Barr River hydro scheme

## Monthly report – May 2026

### 1 Summary

Very poor generation primarily due to a lack of rainfall plus an un-alerted issue that was only identified via routine checks.

### 2 Monthly generation & revenue

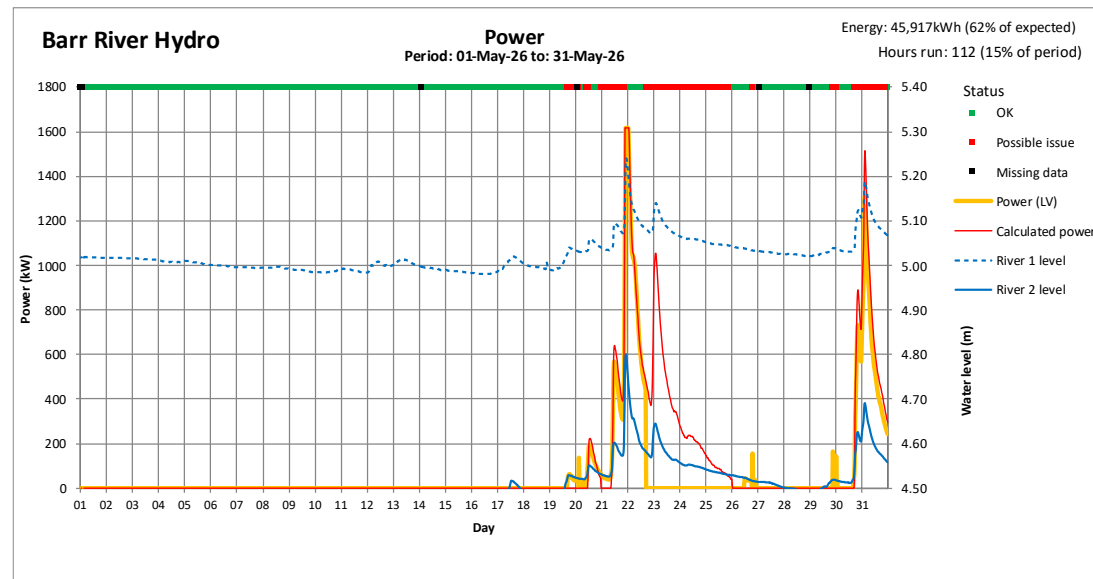
Parameter	Value
Actual generation (FIT meter), kWh	45,917
Average generation in month, kWh	476,560
Forecast generation in month (P50), kWh	226,766
Actual relative to forecast	20.2%
Rainfall relative to 1991-2020 average by month	77%
Calculated generation <sup>1</sup> kWh	73,627
Actual relative to calculated generation, kWh	-27,711
Actual relative to calculated generation, %	-37.6%
Approximate revenue in month <sup>2</sup>	£7,521

<sup>1</sup> Calculated generation is based on river level data and seeks to establish the expected generation with no performance issues.

<sup>2</sup> Export revenue based on reported export and estimated GDUoS charges.

Export meter	Value
Export, kWh	45,263
Variance to generation, kWh	-654
Variance to generation, %	-1.4%

### 3 System reporting



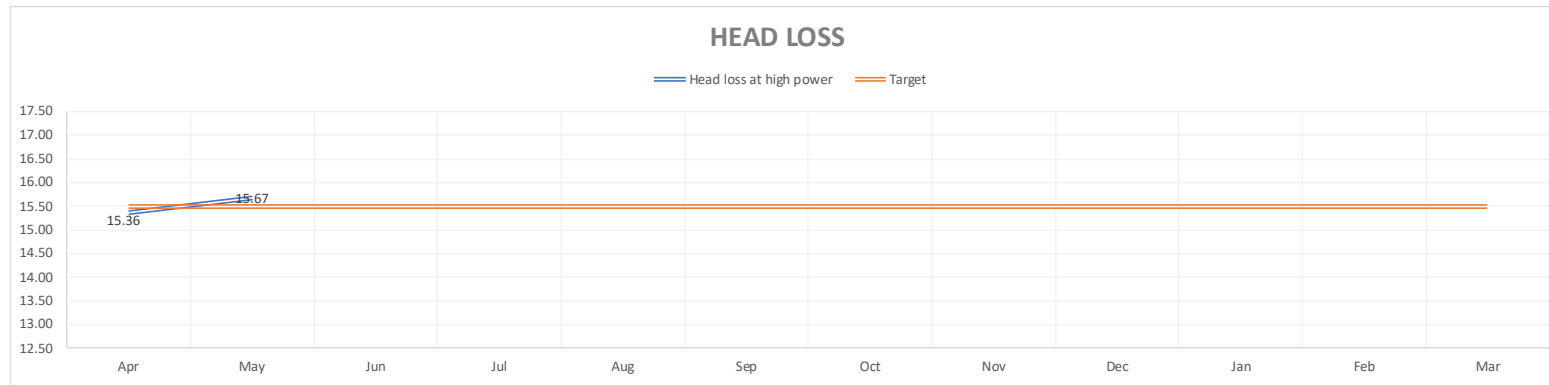
#### 3.1 Scheme anomalies to calculated generation

Date/time	Details	Action required
22/5/2026	Tripped on evening of 22nd due to a nozzle positioning failure. No alarms received by GHC. GHC investigated and found the contact list on the settings page of the SCADA had been wiped (presumably during the software re-installation by Alva)	Fault reset by GHC on 26th during weekly checks. Email to Chris Henshaw to ask why this fault occurred. Added GHC service email address and Angus email address to contacts on SCADA.

#### 3.2 Other system events

Date/time	Details	Action required
General	Minor data outages throughout the month.	We are investigating if this is a model issue or a continuation of the Scada data collection issue recently fixed by Cink/Alva

### 3.3 Head loss – limited data points

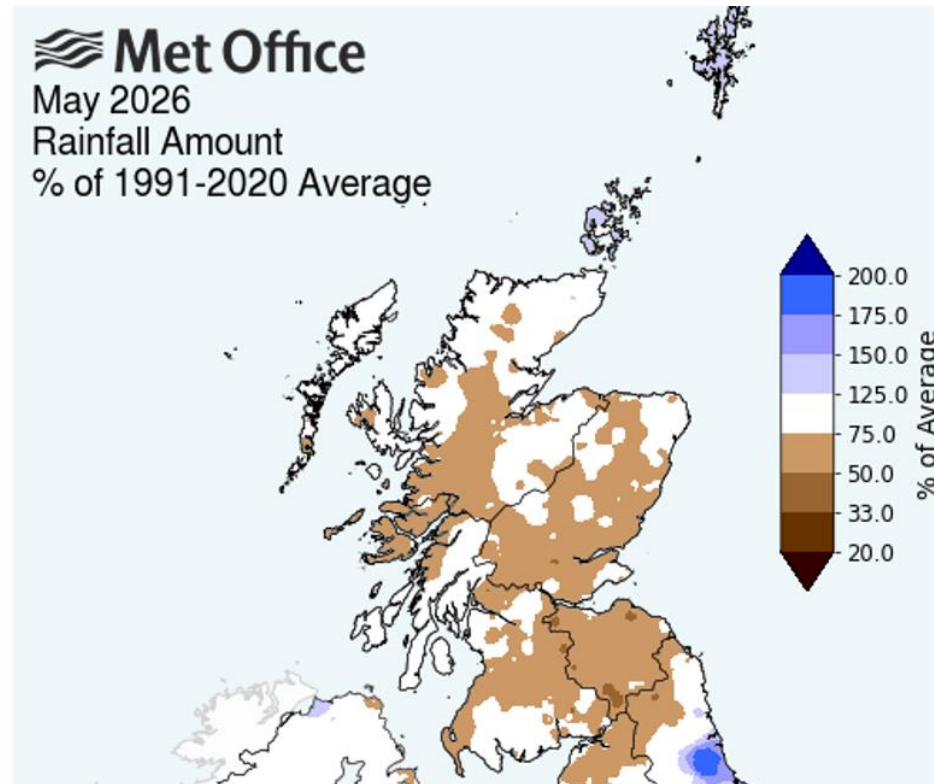


### 3.4 Temperatures & Vibration

Parameter	Temperature at or near full power, °C	Alert level, °C
Generator NDE1 bearing	41.0	85
Generator DE bearing	37.3	85
Generator NDE bearing 2	43.7	85
Generator windings	62.9	145

Parameter	Vibration at or near full power, mm/s	Alert level, mm/s
Generator DE	0.48	3.0
Generator NDE	1.33	3.0

## 4 Rainfall



Rainfall this month (rain gauge), mm	75
Western Scotland rainfall in month with respect to 1991-2020 long term average	77%

## 5 Scheme annual performance summary

FY 2026/7	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Actual generation kWh	478,621	45,917											524,538
Average generation since commissioning	476,497	476,560	330,341	213,315	193,391	277,350	335,636	387,211	353,348	505,414	545,833	566,441	953,057
Forecast generation (P50)	369,360	226,766	188,561	195,146	280,601	387,431	582,631	618,214	620,057	695,941	554,678	611,047	596,126
Actual relative to forecast	104.4%	20.2%											88.0%
Rainfall relative to 1991-2020 average by month	117%	77%											97%
Calculated generation kWh	392,284	73,627											465,911
Variance to calculated generation kWh	-6,541	-27,711	-	-	-	-	-	-	-	-	-	-	58,626
Variance to calculated generation %	-1.7%	-37.6%											+12.6%
Approximate revenue	£70,677	£7,521											£86,436
Capacity factor (monthly)	33.1%	3.8%											22.4%
Average RoR capacity factor <sup>1</sup>	38.2%	10.2%											24.2%
FY 2025/6	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Actual generation kWh	66,263	120,774	475,565	337,159	294,561	539,798	429,308	570,111	608,906	355,689	336,100	519,171	4,671,562
Average generation since commissioning	262,333	217,596	211,278	335,128	418,095	302,196	524,441	539,763	555,825	506,699	511,675	283,133	4,668,160
Forecast generation (P50)	369,360	226,766	188,561	195,146	280,601	387,431	582,631	618,214	620,057	695,941	554,678	611,047	5,330,433
Actual relative to forecast	17.9%	53.3%	252.2%	172.8%	105.0%	139.3%	73.7%	92.2%	98.2%	51.1%	60.6%	85.0%	87.6%
Rainfall relative to 1991-2020 average by month	54%	107%	134%	95%	88%	125%	105%	115%	96%	80%	82%	114%	90%
Calculated generation kWh	65,116	125,464	503,781	355,612	305,935	573,654	444,380	n/a	n/a	n/a	331,084	n/a	2,705,027
Variance to calculated generation kWh	1,147	-4,690	-28,216	-18,453	-11,374	-33,856	-15,072	n/a	n/a	n/a	5,016	n/a	-87,342
Variance to calculated generation %	+1.8%	-3.7%	-5.6%	-5.2%	-3.7%	-5.9%	-3.4%	n/a	n/a	n/a	+1.5%	n/a	-3.2%
Approximate revenue	£10,279	£20,713	£84,263	£59,373	£51,663	£46,508	£69,871	£96,640	£103,508	£60,214	£57,345	£88,488	£802,149
Capacity factor (monthly)	5.7%	10.0%	40.8%	28.0%	24.4%	46.3%	35.6%	48.9%	50.5%	29.5%	30.9%	43.1%	32.9%
Industry wide RoR capacity factor	7.9%	8.5%	22.2%	18.5%	14.0%	27.5%	41.3%	58.5%	59.0%	39.3%	48.1%	55.1%	33.3%

<sup>1</sup> From April 2025 the average reported figure has been amended to a sample of GHC managed schemes rather than the wider industry.

