



# Barr River hydro scheme

## Monthly report – April 2026

### 1 Summary

Average generation despite decent levels of rainfall. Missing data includes significant generation making comparisons less straight forward.

### 2 Monthly generation & revenue

Parameter	Value
Actual generation (FIT meter), kWh	478,621 <sup>3</sup>
Average generation in month, kWh	476,497
Forecast generation in month (P50), kWh	369,360
Actual relative to forecast	104.4%
Rainfall relative to 1991-2020 average by month	117%
Calculated generation <sup>1</sup> kWh	392,284 <sup>4</sup>
Actual relative to calculated generation, kWh	-6,541
Actual relative to calculated generation, %	-1.7%
Approximate revenue in month <sup>2</sup>	£70,677

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

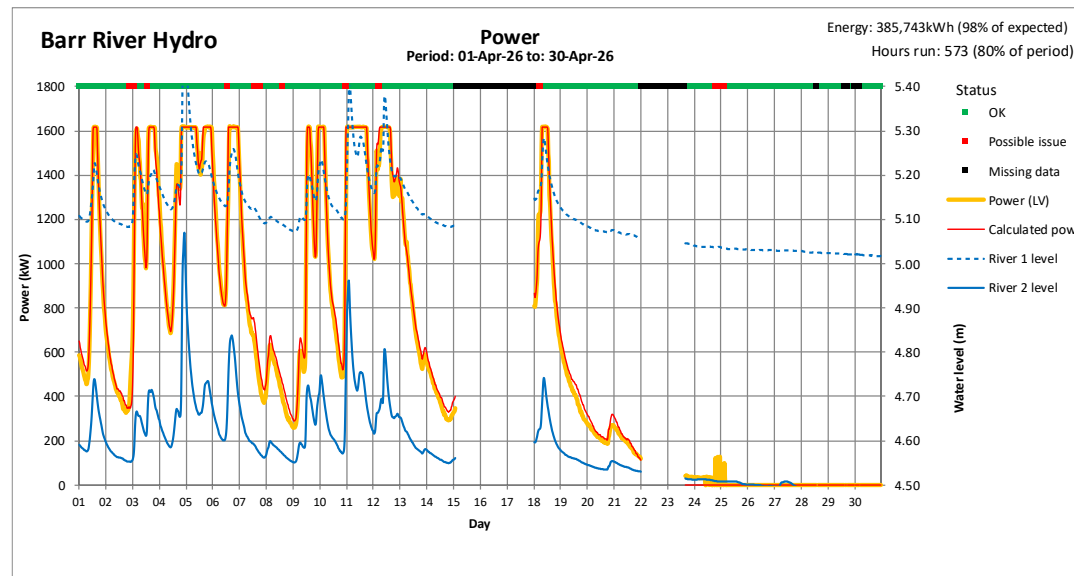
<sup>2</sup> Export revenue based on reported export and estimated GDUoS charges.

<sup>3</sup> Export figure used due to missing data

<sup>4</sup> Compared to recorded generation with missing data

Export meter	Value
Export, kWh	478,621
Variance to generation, kWh	92,878
Variance to generation, %	24.1%

### 3 System reporting



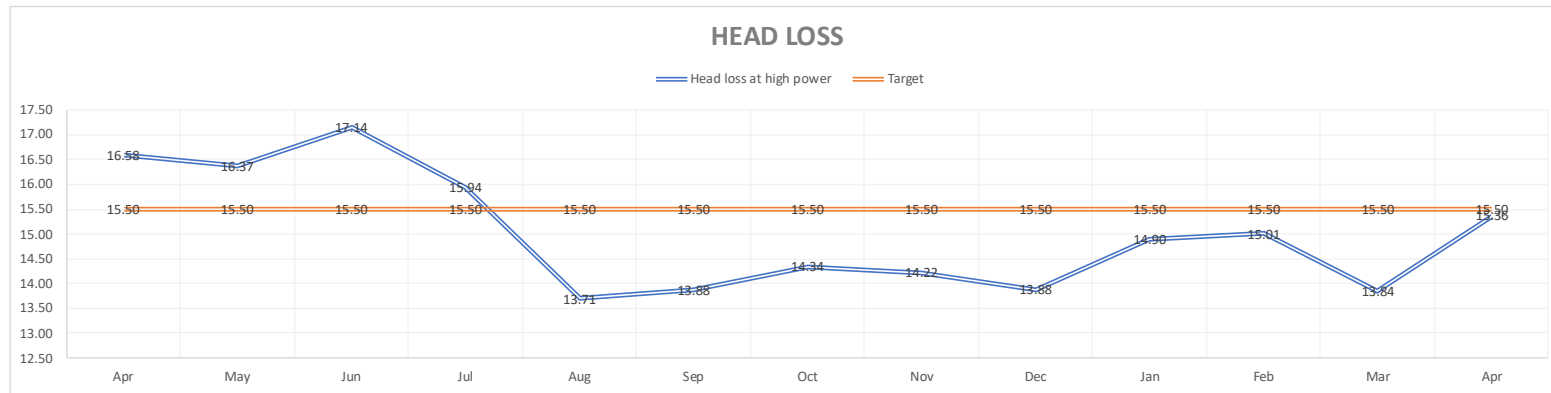
#### 3.1 Scheme anomalies to calculated generation

Date/time	Details	Action required
5/4/2026	Very brief loss of mains trip (Storm Dave)	None

#### 3.2 Other system events

Date/time	Details	Action required
15-18 & 22-23/4/2026	Several data outages throughout the month. These will not have affected generation but have affected the reconciliation to the export data. The higher export total is primarily due to the missing data for 15-17/4 when generation was good.	Cink were contacted. Their response as follows: "CINK in contact with the control manufacturers, ALVA. Supporting software for SCADA application re-installed to ensure a clean start Control WEB was upgraded (free of charge) from version 8 to version 9. The SCADA and all corresponding software parts will be closely monitored by ALVA."

### 3.3 Head loss

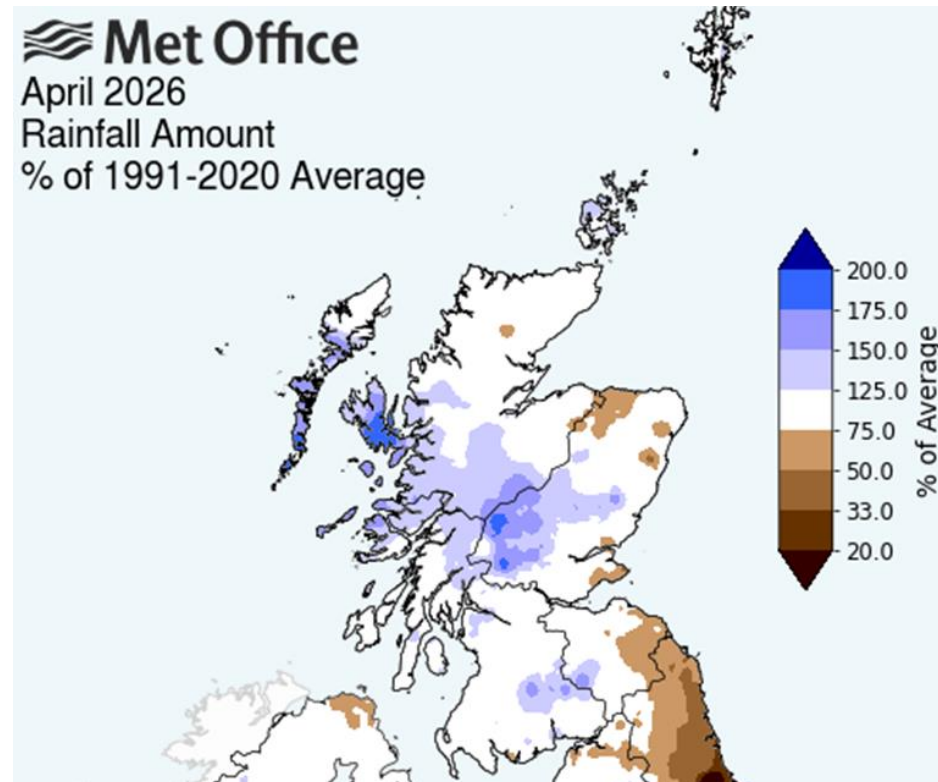


### 3.4 Temperatures & Vibration

Parameter	Temperature at or near full power, °C	Alert level, °C
Generator NDE1 bearing	41.0	85
Generator DE bearing	37.0	85
Generator NDE bearing 2	43.5	85
Generator windings	62.4	145

Parameter	Vibration at or near full power, mm/s	Alert level, mm/s
Generator DE	0.44	3.0
Generator NDE	1.21	3.0

## 4 Rainfall



Rainfall this month (rain gauge), mm	215.2
Western Scotland rainfall in month with respect to 1991-2020 long term average	117%

## 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												385,743
Average generation since commissioning	476,497												476,497
Forecast generation (P50)	369,360												369,360
Actual relative to forecast	104.4%												104.4%
Rainfall relative to 1991-2020 average by month	117%												117%
Calculated generation kWh	392,284												392,284
Variance to calculated generation kWh	-6,541												-6,541
Variance to calculated generation %	-1.7%												-1.7%
Approximate revenue	£70,677												£70,677
Capacity factor (monthly)	33.1%												33.1%
Average RoR capacity factor <sup>1</sup>	38.2%												38.2%
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.

