



# Barr River hydro scheme

## Monthly report – March 2026

### 1 Summary

A strong performance, well above the average on decent rainfall.

### 2 Monthly generation & revenue

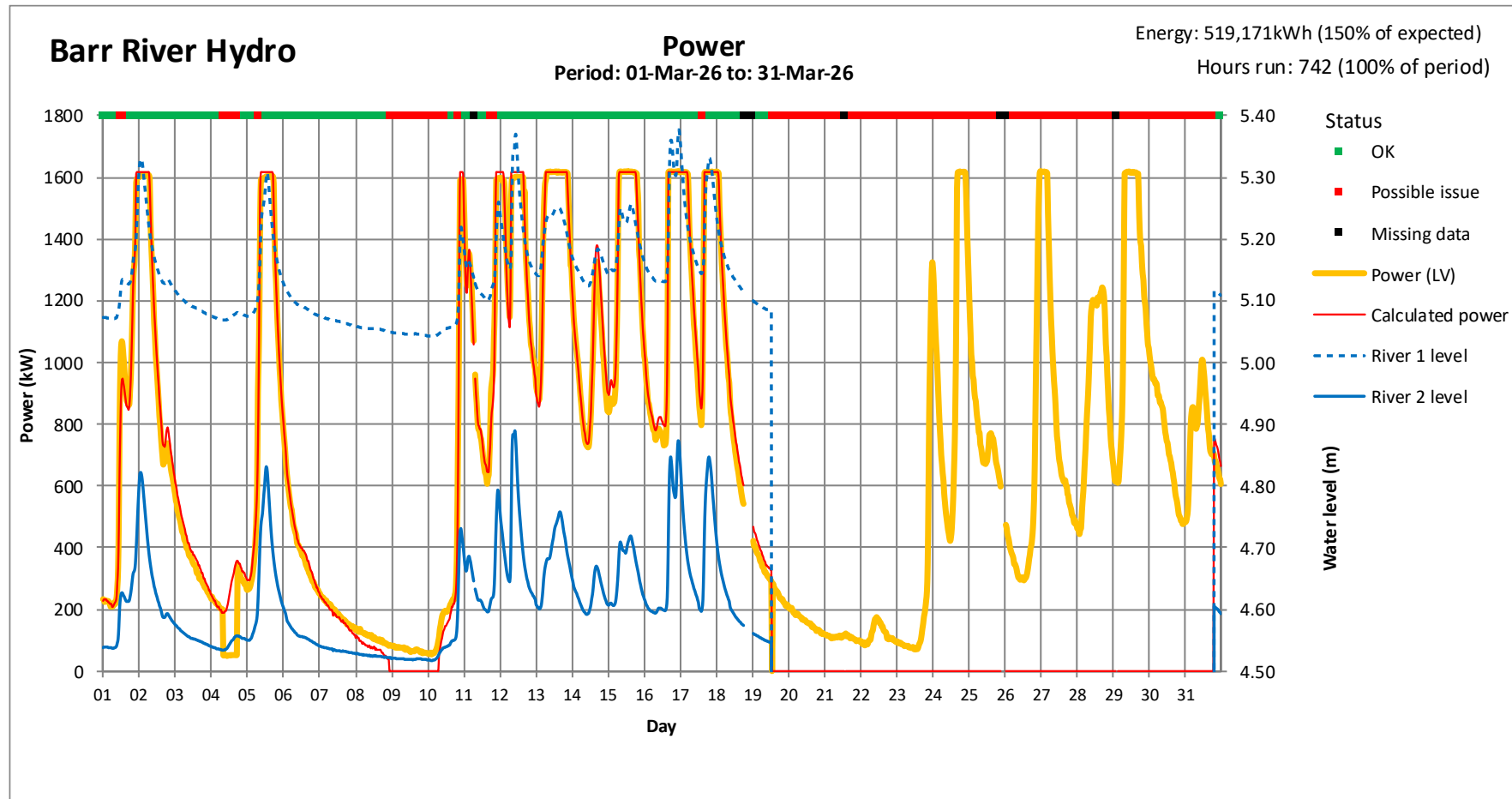
Parameter	Value
Actual generation (FIT meter), kWh	519,171
Average generation in month, kWh	283,133
Forecast generation in month (P50), kWh	611,047
Actual relative to forecast	85.0%
Rainfall relative to 1991-2020 average by month	114%
Calculated generation <sup>1</sup> kWh	n/a
Actual relative to calculated generation, kWh	n/a
Actual relative to calculated generation, %	n/a
Approximate revenue in month <sup>2</sup>	£88,488

<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	517,139
Variance to generation, kWh	-2,032
Variance to generation, %	-0.4%

### 3 System reporting



#### 3.1 Scheme anomalies to calculated generation

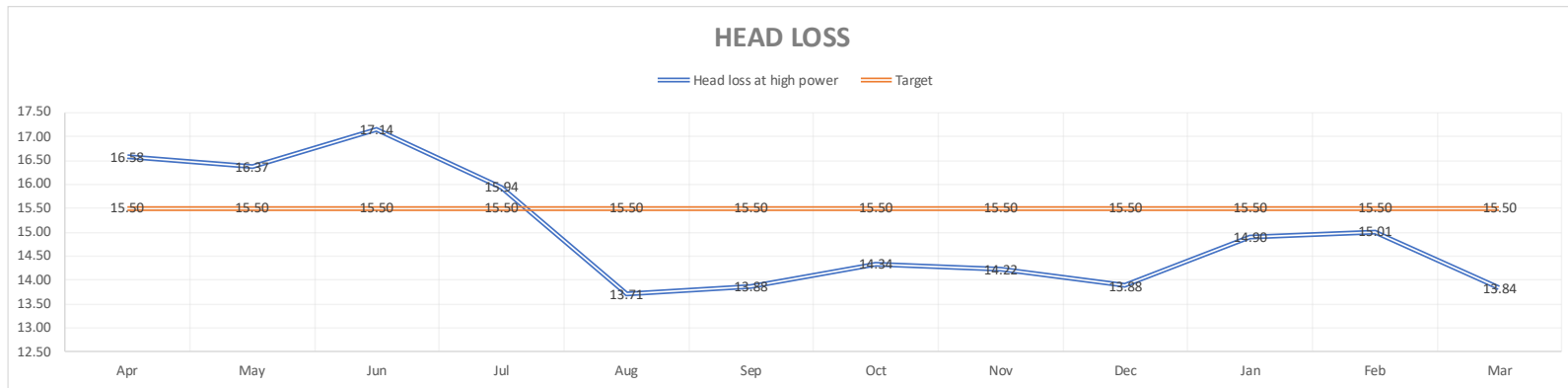
Date/time	Details	Action required
4/3/2026	8am-5pm SSEN 50kW grid constraint applied to turbine	None
5/3/2026	5-6am Grid wobble caused a shutdown. Turbine auto restarted shortly after	None

12/3/2026	Power cut (High winds)	None
19/3/2026	Grid wobble at c. 12:40. Turbine restarted automatically.	
29/3/2026	7.20am. Turbine shutdown and auto restarted, assumed to be a grid wobble.	

### 3.2 Other system events

Date/time	Details	Action required
13/3/2026	We noted that the scheme was over generating at times and thereby exceeding OFGEM's limits. Cink have made a modification to the HMI so a maximum power limit parameter can be changed to stop the generator exceeding 1620kW. It looks like it may have been limiting generation on the HV side previously.	Generation now seems to be within OFGEM's limits. Max spear opening now back to 100%.
18-18/3/2026	Data outage on the 18th. River 1, River 2, and Chamber 2 level sensors stopped working on the 19th.	Message to Douglas to request he checks the fuses. The fuses were changed on the 31 <sup>st</sup> March.
11, 25, 29/3/2026	Data missing.	Bluenergy investigated and found the data outages coincided with windows updates on the SCADA PC. If the issue persists, Bluenergy and Cink to investigate further.

### 3.3 Head loss

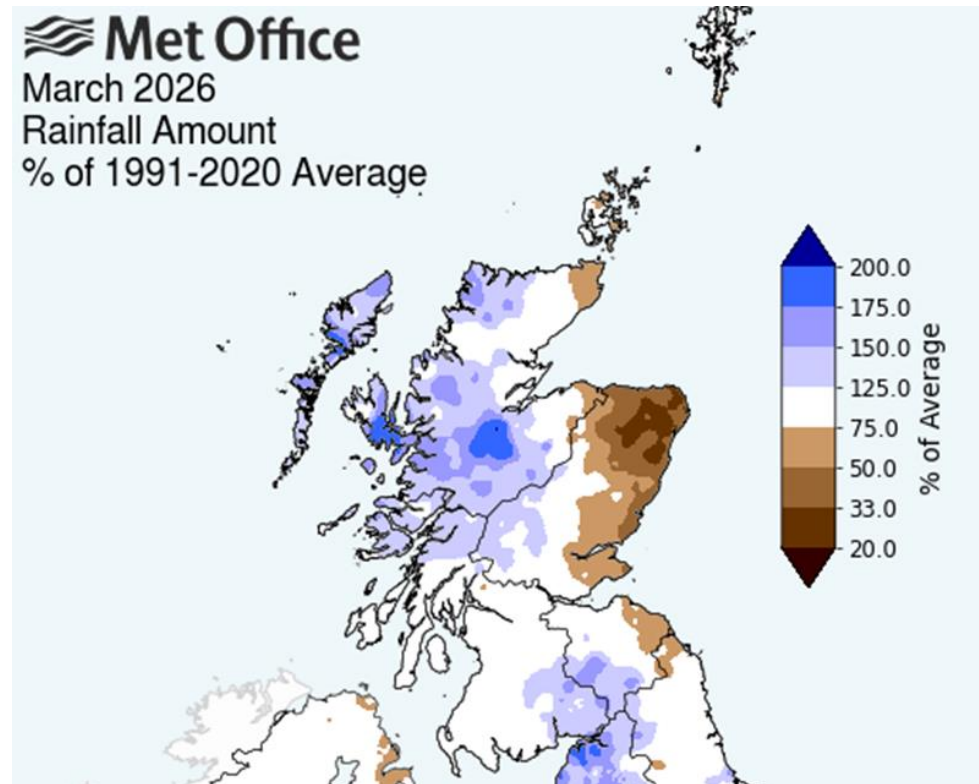


### 3.4 Temperatures & Vibration

Parameter	Temperature at or near full power, °C	Alert level, °C
Generator NDE1 bearing	41.7	85
Generator DE bearing	37.5	85
Generator NDE bearing 2	44.7	85
Generator windings	63.3	145

Parameter	Vibration at or near full power, mm/s	Alert level, mm/s
Generator DE	0.43	3.0
Generator NDE	1.24	3.0

## 4 Rainfall



Rainfall this month (rain gauge), mm	196
Western Scotland rainfall in month with respect to 1991-2020 long term average	114%

## 5 Scheme annual performance summary

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%
Average RoR capacity factor <sup>1</sup>	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%
FY 2024/5	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Actual generation kWh	298,851	170,950	236,233	302,216	636,431	181,760	318,014	366,415	819,629	334,946	368,598	294,450	4,328,493
Average generation since commissioning	244,074	240,920	198,801	351,584	308,927	342,342	593,249	597,546	467,890	563,949	559,368	279,361	4,748,008
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	80.9%	75.4%	125.3%	154.9%	226.8%	46.9%	54.6%	59.3%	132.2%	48.1%	66.5%	48.2%	81.2%
Rainfall relative to 1991-2020 average by month	174%	102%	81%	70%	201%	49%	67%	44%	108%	46%	78%	56%	90%
Calculated generation kWh	301,701	175,752	236,233	302,398	728,169	189,926	361,864	367,128	828,135	360,967	359,919	288,473	4,500,665
Variance to calculated generation kWh	-2,850	-4,802	Nil	-182	-91,738	-8,166	-43,850	-713	-8,506	-26,021	8,679	5,977	-172,172
Variance to calculated generation %	-0.9%	-2.7%	Nil	-0.1%	-12.6%	-4.3%	-12.1%	-0.2%	-1.0%	-7.2%	+2.4%	+2.1%	-3.8%
Approximate revenue	£73,237	£41,323	£57,663	£73,743	£157,116	£43,866	£81,703	£94,692	£212,560	£86,231	£94,994	£48,500	£1,065,335
Capacity factor (monthly)	25.6%	14.2%	20.3%	25.1%	52.8%	15.6%	26.4%	31.4%	68.0%	27.8%	33.9%	24.4%	30.5%
Industry wide RoR capacity factor	7.9%	8.5%	22.2%	18.5%	14.0%	27.5%	41.3%	59.5%	62.1%	26.3%	34.0%	17.5%	30.2%

<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.

