



Barr River hydro scheme

Monthly report – May 2025

1 Summary

A poor month but improved from recent months with better, though erratic, rainfall.

2 Monthly generation & revenue

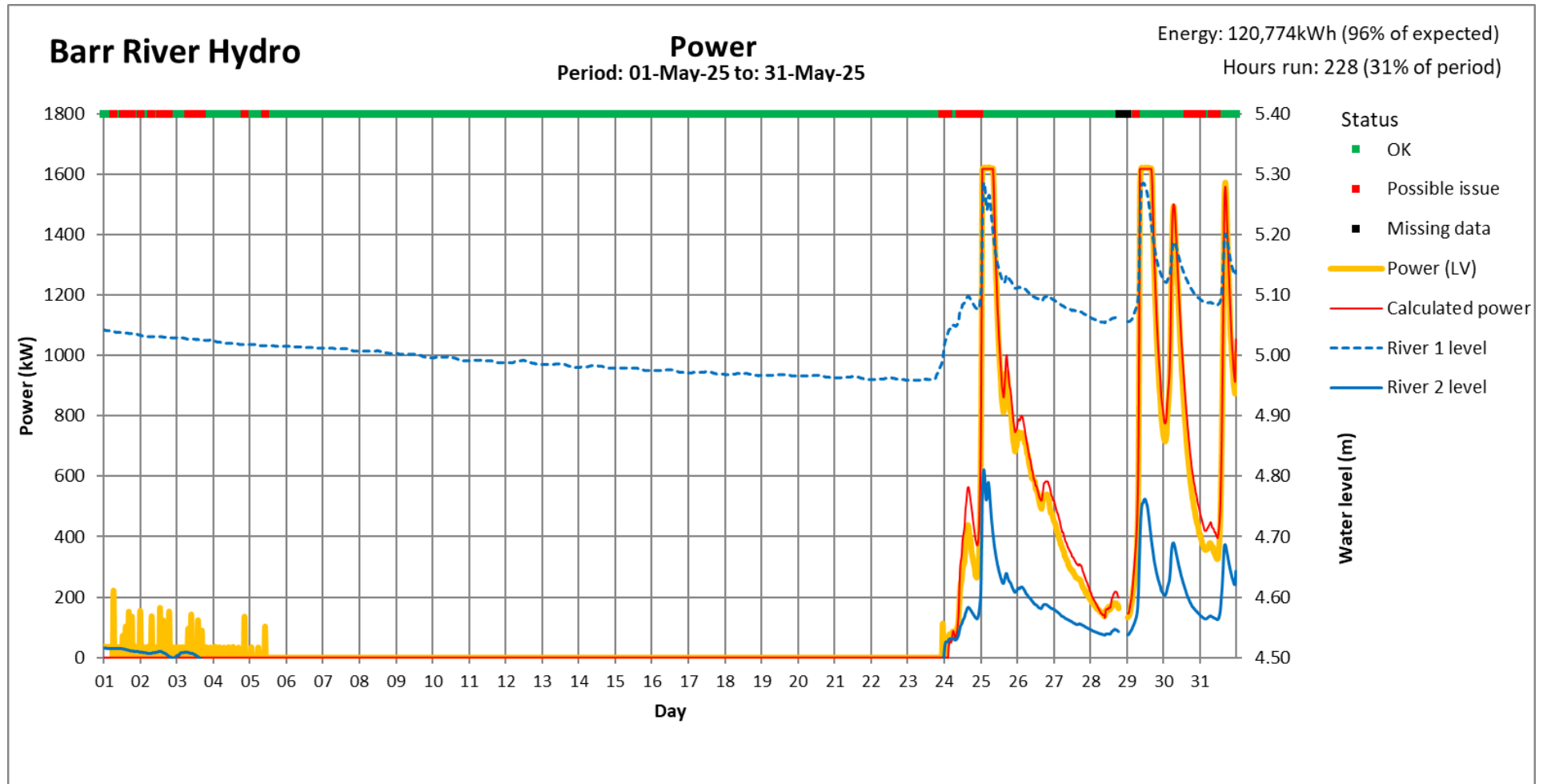
Parameter	Value
Actual generation (FIT meter), kWh	120,774
Average generation in month, kWh	217,596
Forecast generation in month (P50), kWh	226,766
Actual relative to forecast	53.3%
Rainfall relative to 1991-2020 average by month	107%
Calculated generation ¹ kWh	125,464
Actual relative to calculated generation, kWh	-4,690
Actual relative to calculated generation, %	-3.7%
Approximate revenue in month ²	£20,713

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

² Export revenue based on reported export and estimated GDUoS charges.

Export meter	Value
Export, kWh	119,105
Variance to generation, kWh	-1,669
Variance to generation, %	-1.4%

3 System reporting



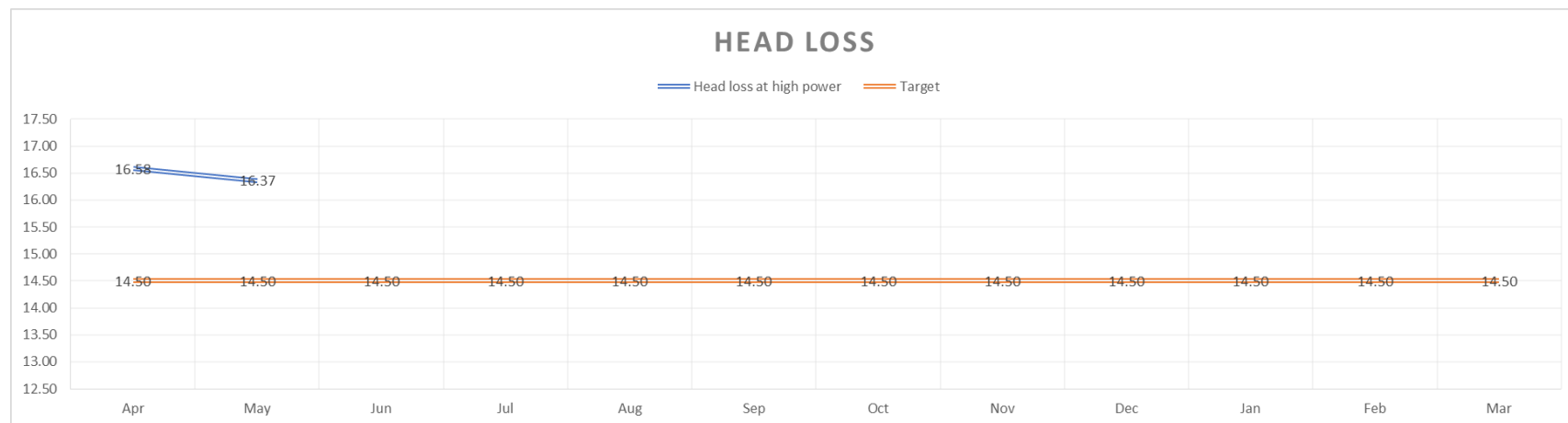
3.1 Scheme anomalies to calculated generation

Date/time	Details	Action required
24/5/2025 onward	Some under generation likely due to remote intakes	N/A

3.2 Other system events

Date/time	Details	Action required
5/5/2025	Increased chamber 1 start level from 3.07 to 3.071 due to the turbine beginning to short cycle again	Continue to review start level.
15/5/2025	Network protection fault triggered. Fault reset. Status: waiting for water. GHC confirmed alarm will not prevent auto restart.	N/A

3.3 Head loss –Chris Henshaw has been commissioned to pig the scheme. Chris is liaising with Kat at Ardtornish re: borrowing a telehandler to undertake the work. Chris has agreed with Angus to conduct the pigging during the next dry spell (to minimise lost generation). The head loss will continue to be monitored.

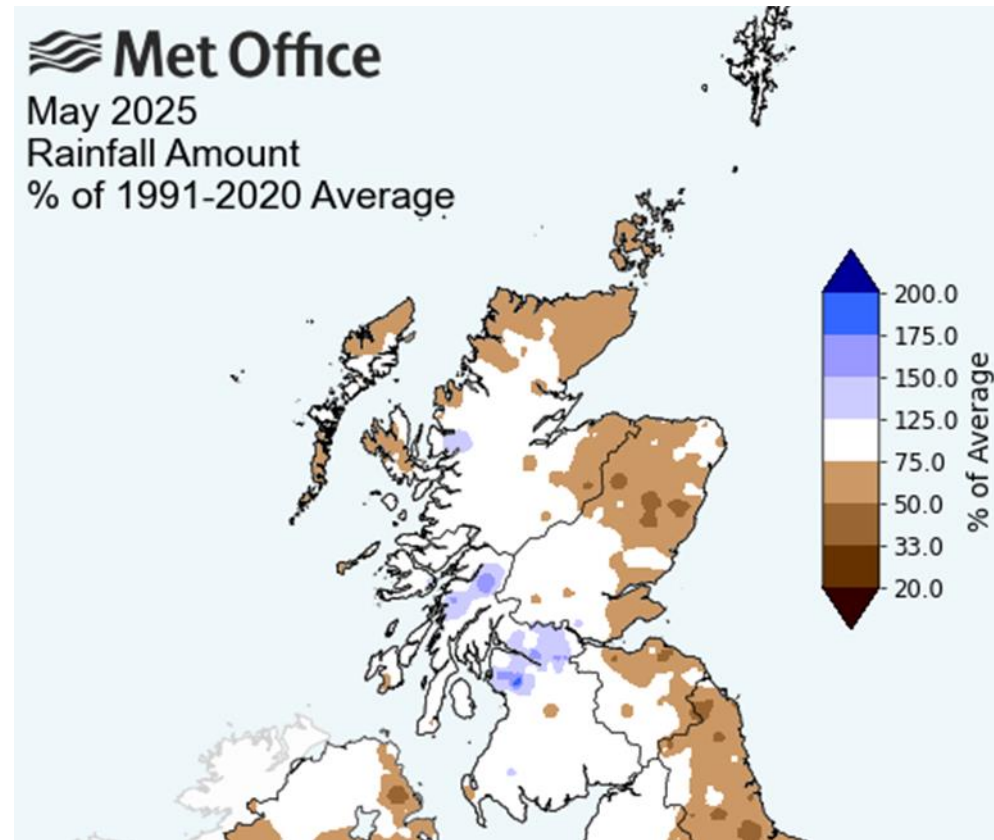


3.4 Temperatures & Vibration

Parameter	Temperature at or near full power, °C	Alert level, °C
Generator DE bearing	43.8	85
Generator NDE bearing 1	39.3	85
Generator NDE bearing 2	46.5	85
Generator windings	66.4	145

Parameter	Vibration at or near full power, mm/s	Alert level, mm/s
Generator DE	0.43	3.0
Generator NDE	1.23	3.0

4 Rainfall



Rainfall this month (rain gauge), mm	94.0
Western Scotland rainfall in month with respect to 1991-2020 long term average	107%

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											66,263
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	262,333
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	369,360
Actual relative to forecast	17.9%	53.3%											17.9%
Rainfall relative to 1991-2020 average by month	54%	107%											54%
Calculated generation kWh	65,116	125,464											65,116
Variance to calculated generation kWh	1,147	-4,690	-	-	-	-	-	-	-	-	-	-	1,147
Variance to calculated generation %	+1.8%	-3.7%											+1.8%
Approximate revenue	£10,279	£20,713											
Capacity factor (monthly)	5.7%	10.0%											5.7%
Industry wide RoR capacity factor													#DIV/0!
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	43.5%	11.4%	20.8%	16.5%	47.0%	22.0%	27.7%	20.8%	62.1%	26.3%	34.0%	17.5%	30.2%

