



AGM – 14th June 2019



OBJECTIVES

To build, commission and operate a community hydro scheme at Harlaw Reservoir.

To provide financial support to Balerno Village Trust.

Agenda

- Welcome
- AGM
 - Minutes of 2018 AGM
 - Apologies
 - Chairman's remarks
 - The Accounts
 - Approval of annual accounts
 - Approval of interest payment
 - Agreement to verify the accounts
 - Engineering
 - Election of the Board
- Community Chest
- Balerno Village Trust – Keith Taylor – Chairman
- AOCB
- Questions
- Wine, juice and nibbles

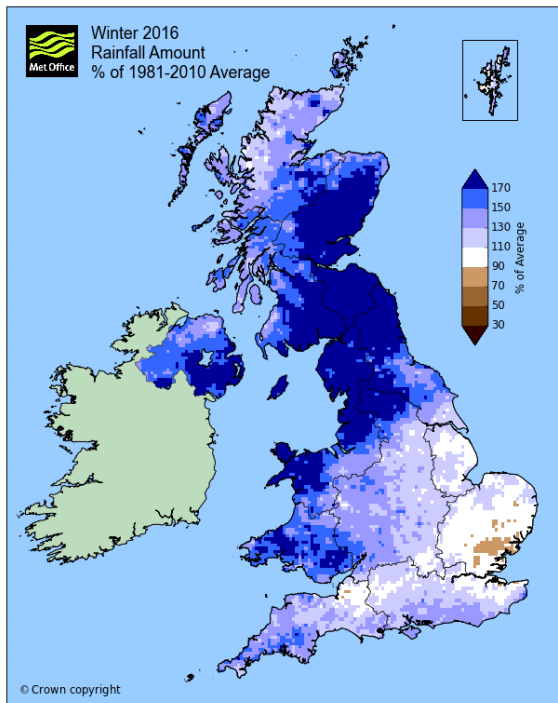
Chairman's Remarks

- A Community Success
 - Initiated in . . Funded by . . Managed by . . **the Community**
- Our sixth AGM
- Operations
 - Water
 - Maintenance
 - Solarplicity
- Donation to BVT
 - £20,000 + members donations approx. £2,000 [incl Gift Aid]

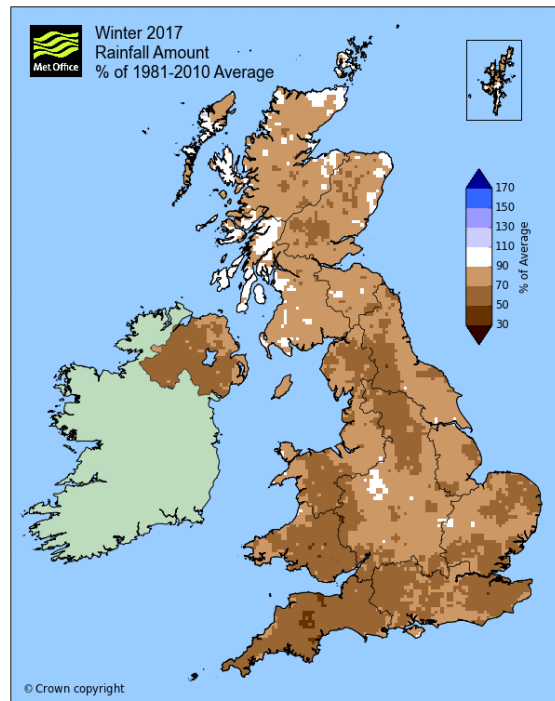
Winter 2016, 2017, 2018

Met Office comparison with 1981-2010 Average Rainfall

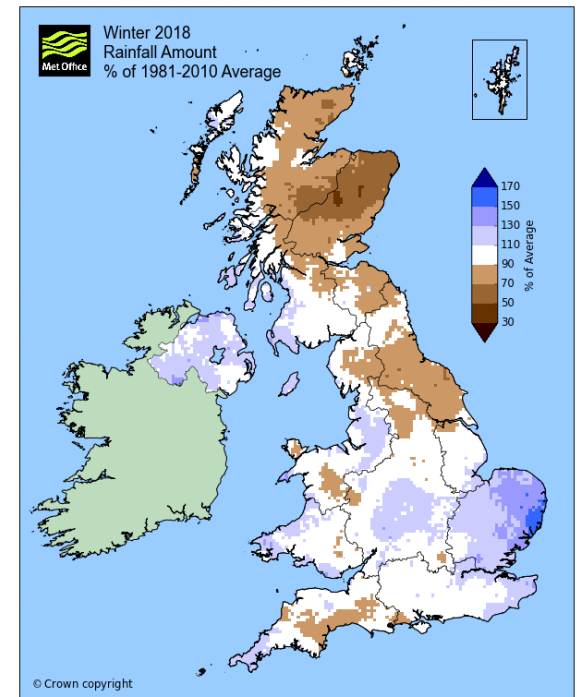
2016



2017

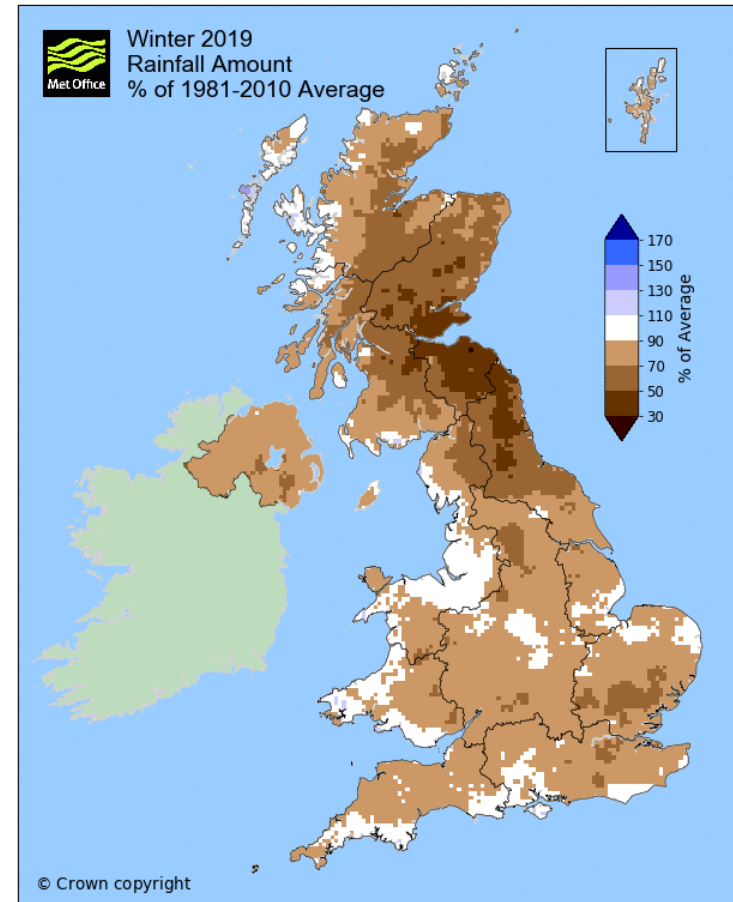
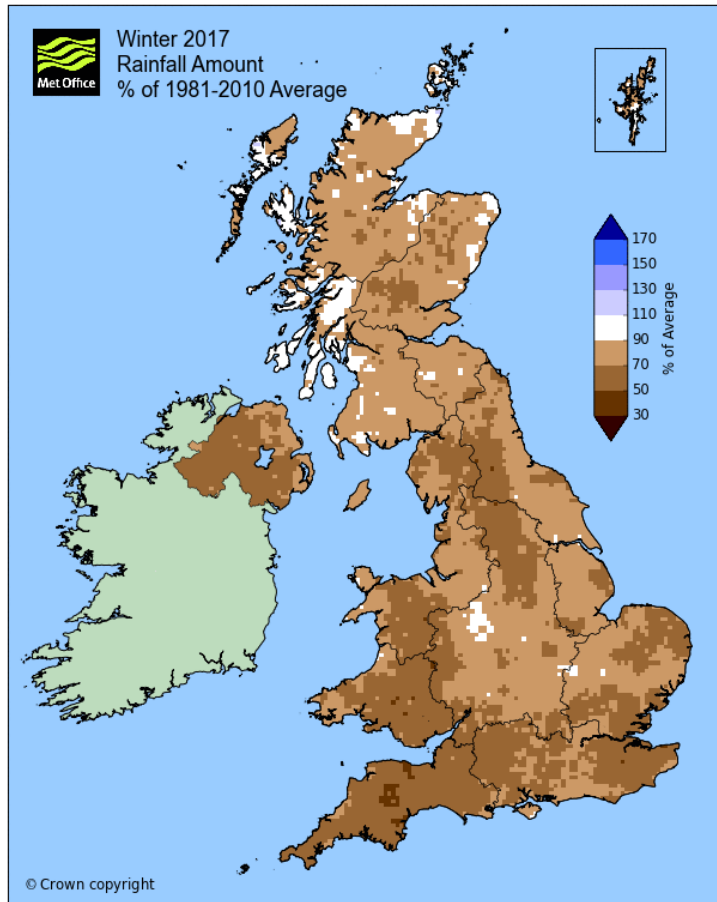


2018

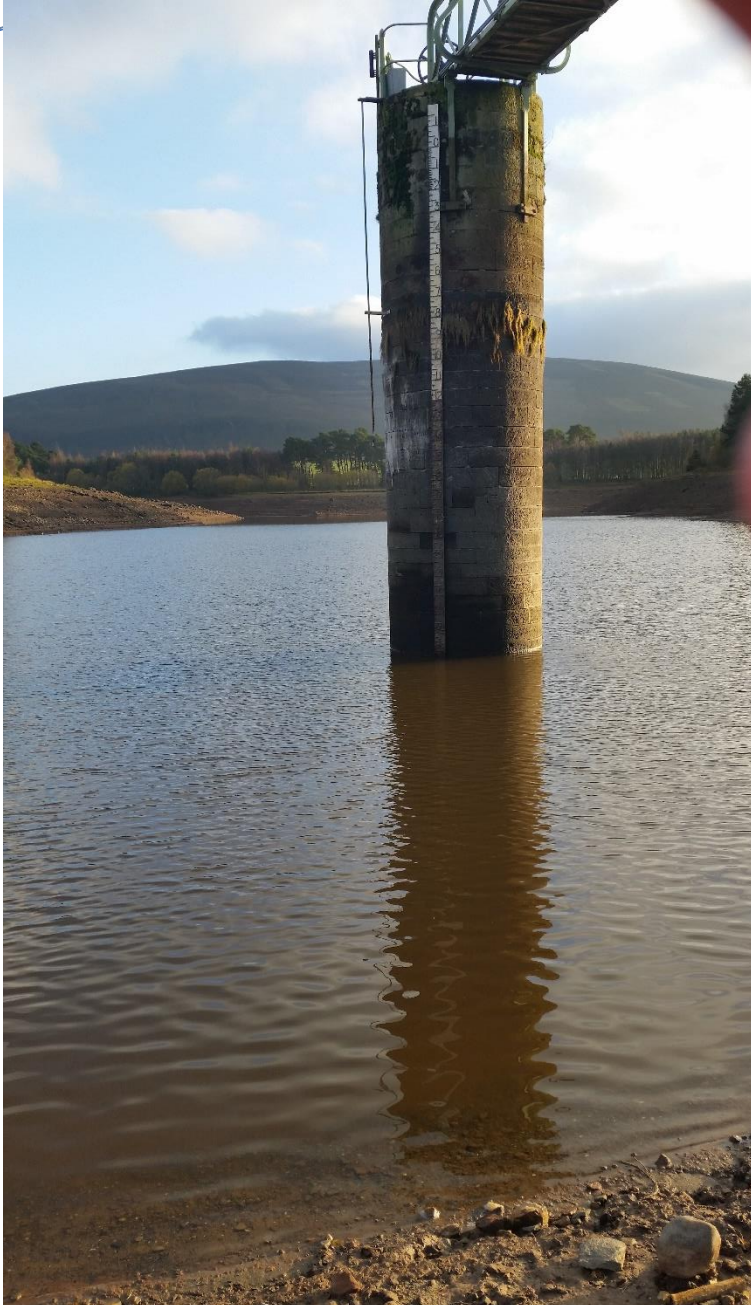


<https://www.metoffice.gov.uk/climate/uk/summaries>

Winter 2017 and 2019



Winter = Dec, Jan and Feb



Harlaw Tower 2018

Threipmuir Tower – High and Dry



Harlaw Reservoir? 2018



The Beach at Threipmuir - 2018



Harlaw – Upper Penstock 2018



Electricity Generated by Quarter

QTR to	2016/17	2017/18	2018/19
June	50,272	59,509	72,005
September	23,092	77,598	31,928
December	48,091	73,250	18,696
March	107,582	127,144	48,773
	229,037	337,501	171,402

Power Meter - 2

Power Meter

Harlaw Hydro is a grid connected micro-hydro installation located near Balerno, Edinburgh having a peak generating capacity of 85 kW, enough for about 177 houses. [Find out more.](#)

Generating electricity for the benefit of the community - currently **17kW** - enough for the average consumption of **35 houses**



Turbine

Status: System Healthy - Running (12)
Mode: System Online - Generating (12)
Water flow: 169 l/sec
Guide vane % open: 22.9
Total hours run: 30605 hrs
Inlet valve pressure: 1.52 bar

Reservoir

Level: -0.9m
Plunger valve % open: 0.2%
Inside tower level: -2.29m

Power generated

So far today: 459 kWh
Last 24hrs: 611 kWh
Last 7 days: 4,799 kWh
Last 12 months: 139,578 kWh

Power generated / reservoir level in last 24hrs

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Income & Expenditure

	2019	2019	2018	2018
<u>INCOME</u>				
Income		£50,613		£94,052
Bank Interest		£245		£84
		£50,858		£94,136
<u>EXPENDITURE</u>				
Accountancy Fees	£360		£360	
Annual Memberships	£393		£379	
Depreciation	£17,195		£17,196	
Donation to BVT	£20,000		£20,000	
Electricity	£609		£1,026	
Equipment	£911		£2,215	
Insurance	£4,677		£4,149	
Professional Fees	£1,695		£1,485	
Repairs & Maintenance	£3,453		£0	
Repairs Provision	£3,000		£3,000	
Shareholder Interest Payments	£12,000		£16,000	
Share Redemption Provision	£3,000		£3,000	
Sundry Expenses/Stationery	£81		£596	
Telephone	£663		£970	
Travel & Subsistence	£0		£218	
Website Costs	£191		£0	
		£68,228		£70,594
(DEFICIT)/SURPLUS FOR THE YEAR		-£17,370		£23,542

Revenue 2017/18 vs 2018/19

HH - FIT					HH - FIT					
QTR to	Kwh	DayAve	Rate	Invoiced	QTR to	Kwh	DayAve	Rate	Invoiced	<u>£-YOY</u>
Jun-17	59,509	647	£0.2187	£13,017	Jun-18	72,005	783	£0.2277	£16,396	26%
Sep-17	77,598	843	£0.2187	16,971	Sep-18	31,928	347	£0.2277	7,270	-57%
Dec-17	73,250	796	£0.2187	16,020	Dec-18	18,696	203	£0.2277	4,257	-73%
Mar-18	127,144	1,382	£0.2187	27,806	Mar-19	48,773	530	£0.2277	11,106	-60%
	337,501			£73,814		171,402			£39,030	-47%
OTHER Electricity sales - Export, GDUoS, Tri				20,238	OTHER Electricity sales - Export, GDUoS, Triad				11,583	-43%
Annual a/c's to 31/3/18				£94,052	Annual a/c's to 31/3/19				£50,613	-46%

Balance Sheet

		2019	2019		2018	2018
TANGIBLE FIXED ASSETS			£275,306			£292,501
			£275,306			£292,501
INVESTMENTS			£10,000			£0
CURRENT ASSETS						
Bank and Cash		£128,085			£122,267	
Debtors		£18,420			£32,613	
		£146,505			£154,880	
CREDITORS						
Amounts falling due within one year		£32,603			£36,756	
			£113,902			£118,124
Provisions			£24,000			£18,000
			£375,208			£392,625
Capital and Reserves						
Share Capital			£400,000			£400,000
Net Deficit			-£24,792			-£7,375
Shareholders funds			£375,208			£392,625

Questions & Answers

- 1 Why was the income so significantly reduced in comparison to last year? (46% reduction)
 - Lack of rain - we generated less than half the electricity we did last financial year.
- 2 The Shareholder funds are valued at even less than last year; what is the plan to rectify this?
 - This is due to the lack of rain and the needs of Balerno Village Trust (see answer 3). Last year we almost eliminated the deficit thanks to a very good year for generation. There is no immediate issue but we should look to eliminate the deficit.

Questions & Answers

- 3 Despite this undervaluing and the reduced income, I note that the donation to BVT has remained at the same level as last year.
 - The Board discussed the donation to BVT and took the decision to recommend keeping the donation at £20,000 because of the community benefit and because we are able to do this safely, for at least one year. The bulk of the money given to BVT is used to pay a part time employee who is central to running the Farmers Market. 10% goes to the Community Chest, the scheme that provides small grants to community organisations which BVT and Rotary run. We have told BVT that if we have another very dry year we will not be able to repeat this.

Questions & Answers

- 4 The shareholder interest payments are less than last year and now significantly (40%) less than the amount donated to BVT.
 - Entirely due to the lack of water and reduced revenue; we hope this will be a one off but we can't guarantee rain. 3% is still well ahead of savings accounts.
- 5 What is the repairs provision for? It is sitting with £12k but there is a £3k+ 'repairs and maintenance' expenditure charged to the general fund.
 - We are steadily building a fund that will cover major repairs such as a new generator or a new control unit. The board is aiming to build this to £50k which will ensure a major issue can be dealt with. Routine expenditure such as the six monthly maintenance which is now in place is regarded as running costs.

Financial Projection

Harlaw Hydro Ltd		Stat a/c's	Stat a/c's	Projection	Projection	Projection
PROJECTIONS		31-Mar-18	31-Mar-19	31-Mar-20	31-Mar-21	31-Mar-22
INCOME & EXPENSE						
Sales of Electricity		94,052	50,613	45,000	65,000	80,000
Bank Interest		84	245	150	150	150
Expenditure		-11,398	-13,033	-12,660	-12,543	-12,849
Provisions + Depreciation		-23,196	-23,195	-23,195	-23,195	-23,195
BVT Donation		-20,000	-20,000	-20,000	-20,000	-20,000
Shareholder Interest Payments		-16,000	-12,000	-12,000	-16,000	-16,000
Taxation		-17	-47	-30	-30	-30
Surplus / (Deficit)		23,525	-17,417	-22,735	-6,618	8,076
BALANCE SHEET						
Bank Balances		122,268	128,086	132,363	152,940	184,211
Fixed Assets	Plant	292,500	275,305	258,110	240,915	223,720
	Investments	0	10,000	10,000	10,000	10,000
Debtors/Creditors		-4,143	-14,183	-18,000	-22,000	-22,000
Provisions		-18,000	-24,000	-30,000	-36,000	-42,000
Assets		392,625	375,208	352,473	345,855	353,931
Share Capital		400,000	400,000	400,000	400,000	400,000
Reserves		-7,375	-24,792	-47,527	-54,145	-46,069
Capital and Reserves		392,625	375,208	352,473	345,855	353,931

Provisions and Donations

- Repairs Provision - £3,000
 - Repayment Provision - £3,000
 - Members Interest - £12,000
 - Donation to BVT - £20,000
-
- Proposer
 - Secunder

Society Accounts

- Approve Accounts
 - Approve verification of accounts –
aka *'disapply the requirement to undertake a full professional audit for the year of account in question'*.
 - Appointment of Gordon Mavor as verifier
-
- Proposer
 - Secunder

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Engineering

- Some Ongoing Enhancements...
 - Completed
 - Replacement of CCTV Recorder (DVR)
 - New Comms Cabinet in powerhouse
 - Planned
 - Control System Optimisations



New cabinet and DVR

Control System

Power Meter

Harlaw Hydro is a grid connected micro-hydro installation located near Balerno, Edinburgh having a peak generating capacity of 100 kW, enough for about 177 houses. [Find out more.](#)

Generating electricity for the benefit of the community - currently **65kW** - enough for the average consumption of **136 houses**



Turbine

Status: System Healthy - Running (12)
Mode: System Online - Generating (12)
Water flow: 444 l/sec
Guide vane % open: 100.2
Total hours run: 29580 hrs
Inlet valve pressure: 1.09 bar

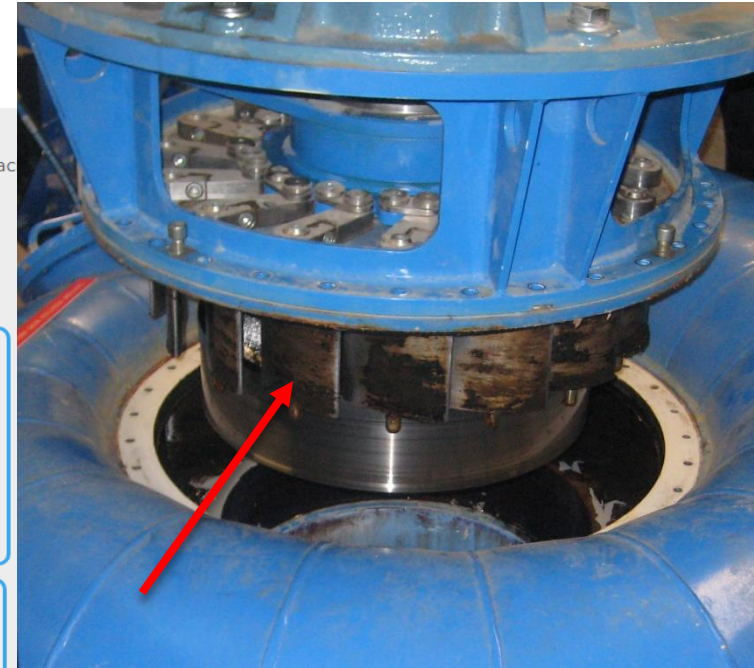
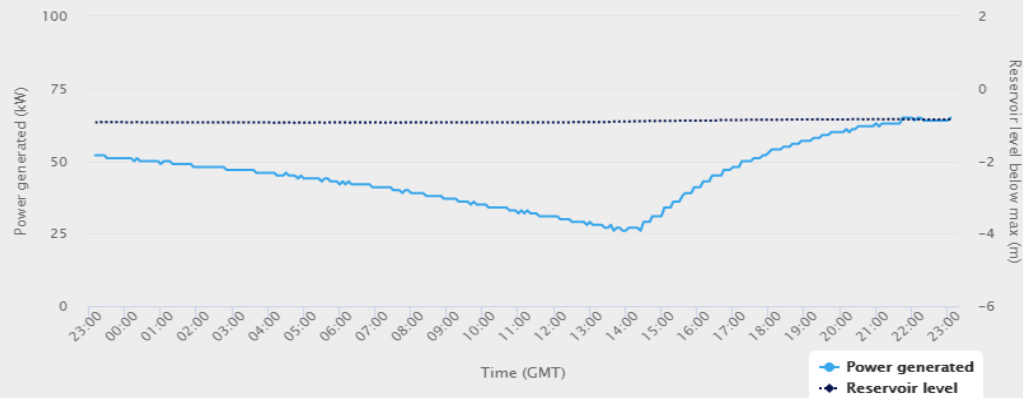
Reservoir

Level: -0.85m
Plunger valve % open: 0.2%
Inside tower level: -4.08m

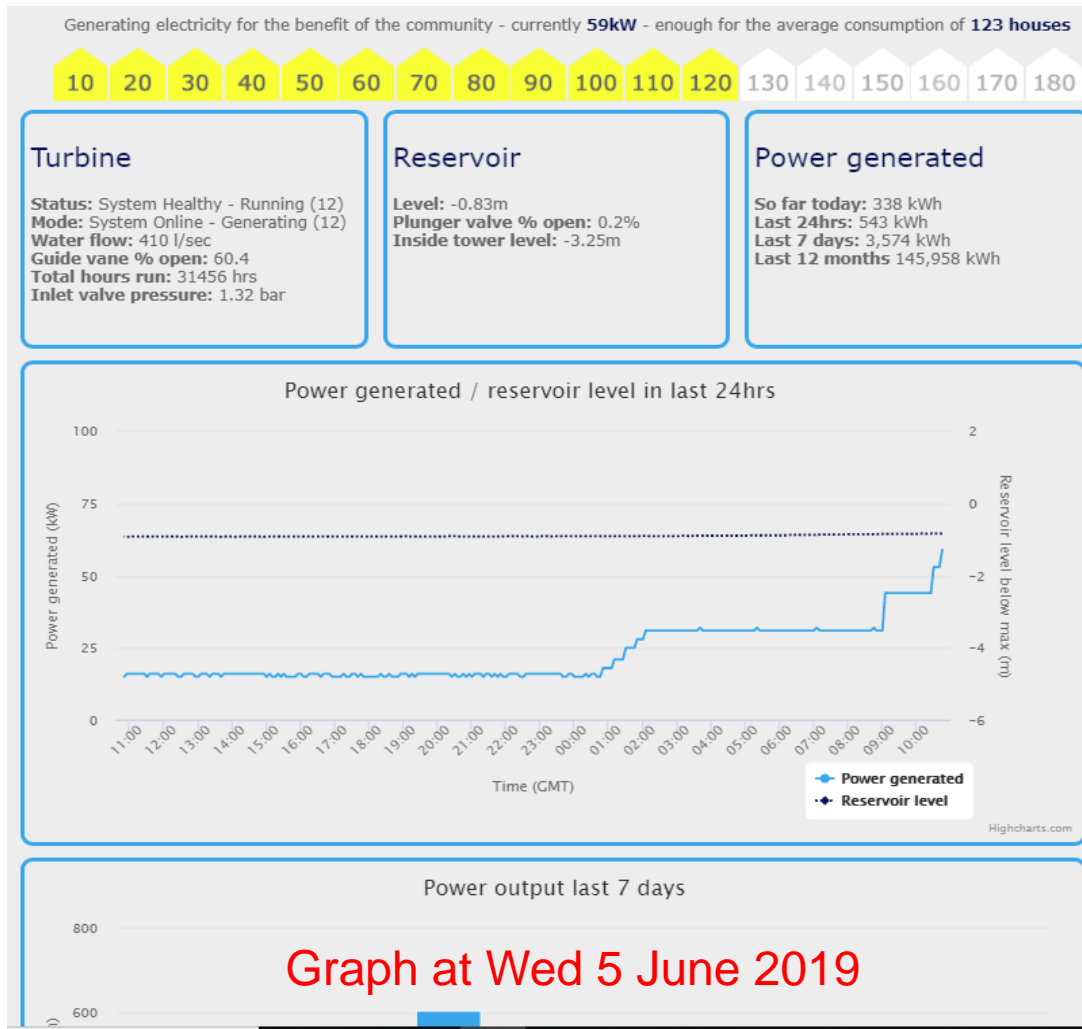
Power generated

So far today: 1,033 kWh
Last 24hrs: 1,072 kWh
Last 7 days: 3,926 kWh
Last 12 months: 159,656 kWh

Power generated / reservoir level in last 24hrs



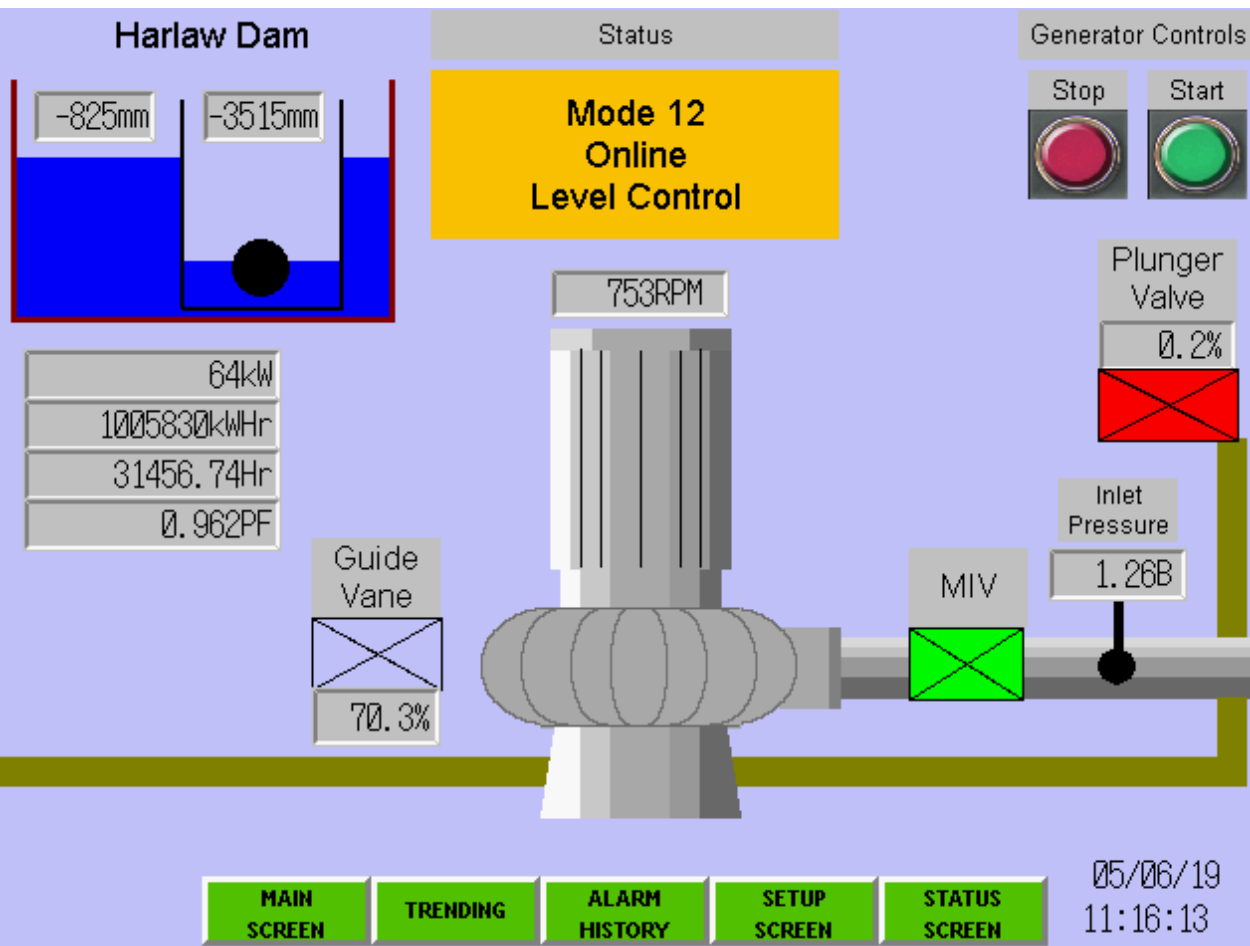
Control System



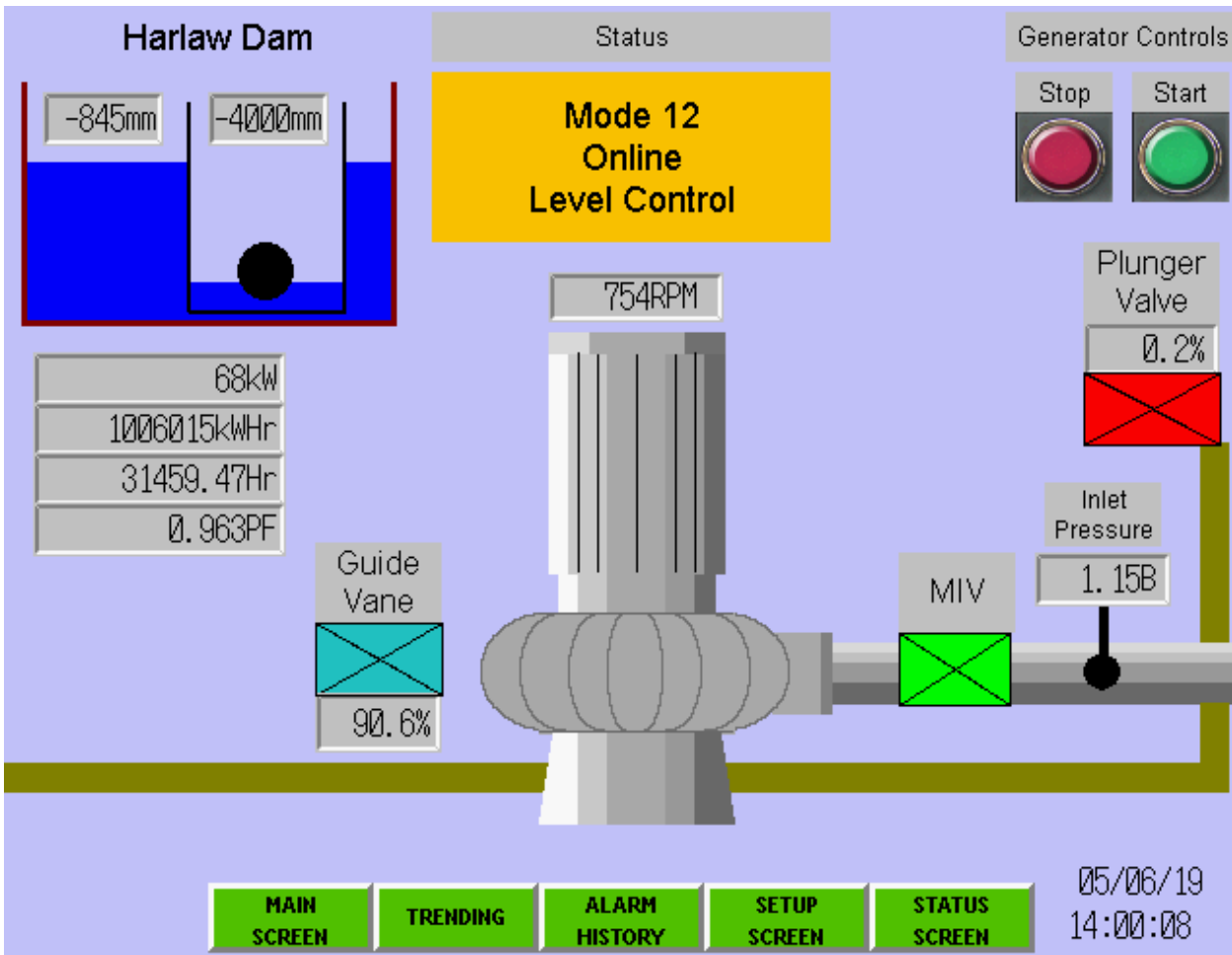
Graph at Wed 5 June 2019

- New Target Level for Harlaw agreed @ -900mm
- Power = Head x Flow
- Now running on Level Control to maintain this reservoir level
- Control System software needs adjustment

Control Main Screen



Control Main Screen II



Control System – Future?

Generating electricity for the benefit of the community - currently **52kW** - enough for the average consumption of **108 houses**



Turbine

Status: System Healthy - Running (12)
Mode: System Online - Generating (12)
Water flow: 370 l/sec
Guide vane % open: 51.0
Total hours run: 30405 hrs
Inlet valve pressure: 1.36 bar

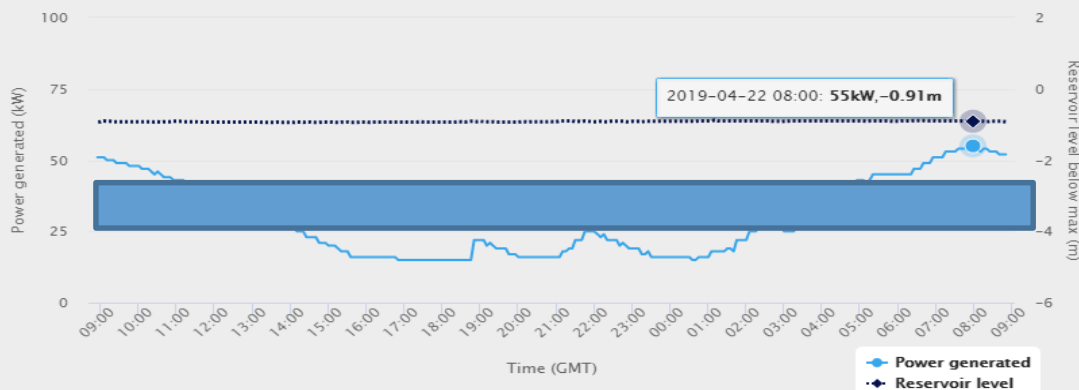
Reservoir

Level: -0.92m
Plunger valve % open: 0.2%
Inside tower level: -3.02m

Power generated

So far today: 319 kWh
Last 24hrs: 704 kWh
Last 7 days: 4,872 kWh
Last 12 months: 142,123 kWh

Power generated / reservoir level in last 24hrs



Power output last 7 days

800

Ideally a future modification would be to allow system to adjust itself between two power “tramlines” which would be moved up and down by the system based on the previous graph over, say, 24 hours

Engineering



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The Board

- Rule 65
 - Up to nine Directors elected by and from the Society's Membership; one third retire each year.
 - Up to three Directors as representative[s] appointed/nominated by Balerno Village Trust (SC 369378)
- Board Membership – 2018-2019
 - Andrew Clark – Elected 2016 retiring by rotation
 - Simon Dormer - Elected 2017 retiring by rotation
 - Jill Gillard - nominated by BVT
 - Gordon Grassick – Elected 2017
 - Ian Hynd – Elected 2017 retiring by rotation
 - Richard McLeod - nominated by BVT
 - Lynn Molleson – nominated by BVT
 - Mike Molleson – Elected 2018
 - Martin Petty – Elected 2018
 - Alister Skinner – Elected 2018

Election to the Board

Standing for election or re-election are:-

- Andrew Clark
- Simon Dormer
- Ian Hynd

- Proposer
- Secunder

The Board – 2019-2020

- Andrew Clark – Elected 2019
- Simon Dormer - Elected 2019
- Jill Gillard - nominated by BVT
- Gordon Grassick - Elected 2017
- Ian Hynd – Elected 2019
- Richard McLeod - nominated by BVT
- Lynn Molleson – nominated by BVT
- Mike Molleson – Elected 2018
- Martin Petty – Elected 2018
- Alister Skinner – Elected 2018

Community Chest

- Joint Venture between Currie Balerno Rotary and Balerno Village Trust.
- BVT is putting 10% of money they receive from HH into the Chest.
- Grants of up to £500 are awarded.
- Cala contribute £2,000 pa
- Awards made twice a year June and December.
- 10 awards made January 2018, 8 in June 2018 - £6,000
8 awards made December 2018.



Investing in the Community

Keith Taylor
Chairman of Balerno Village Trust



- BVT (formerly BVCDF) was founded in 2003 by Balerno Community Council.
- BVT's aims are:
 - Sustainability,
 - Community development,
 - Education & health,
 - Fund other local people to do the same
- Registered Charity Ltd by guarantee
- Regulated by OSCR (Scottish Charity Regulator)



Balerno Music Festival

- Started by BVCDF /BVT
- Now in its 12th Year
- Three glorious weekends of music in the Balerno Autumn Calendar







Apple day



BALERNO SCARECROW TRAIL



FRIENDS OF MAIN STREET





NTS Malleny House Garden



Bees



Harlaw Visitor Centre



Harlaw House

AGM Completed

- Questions
- Wine and 'nibbles'