

17th November 2021 (via Video) - DJR/v1.5a/FINAL

Archway

HEALTH HUB



Harborough Energy is a not-for-profit cooperative formed in 2014 via Sustainable Harborough which is now ...



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Annual General Meeting - AGENDA

- Welcome and Introduction Peter Jones (Chair)
- Projects Update 2021 (approx. 20 mins)
 - Financial Summary Gavin Fletcher (Treasurer)
 - Solar PV Performance
- David Robbins / John Twidell (Directors)
- Annual General Meeting Formalities / Resolutions (approx. 20 mins)
 - Directors Resignations
 - Nominations and appointment to the Board of Directors
 - Receipt of Accounts
 - Close of formal business
- Other Items (approx. 20 mins)
 - Community Benefit Fund
 - Investor returns
 - Warm Homes / Harborough Energy
 - New Directors from Members
 - Any other agreed business (Business Development)

• Close

OUR PURPOSE

• To engage with local organisations and businesses to install and operate low carbon systems like solar panels, battery storage, biomass and heat pumps to generate sustainable clean energy

 To help the local community to work together to generate its own clean energy, improve energy efficiency in homes and facilitate access by all to affordable clean energy

• To generate greater community benefit through our wider energy related work, such as reducing energy costs, improving the carbon footprint and reducing the emissions of local businesses, schools and public facilities Harborough Solar One

Harborough Solar One was created via Harborough Energy as a Community Benefit Society governed by our <u>Rules</u>.

On behalf of the Members, the **Committee of Management** ('directors') oversee the day-to-day operations, facilitate the AGMs and ensure we comply with the <u>Community Shares</u> <u>Handbook</u>.

Harborough Solar Projects Financial Summary

Gavin Fletcher / Mark Buckmaster



Cash at bank at 1st August 2020 - £ 17,099.46

Income	Predicted	Actual	Income Difference	
Feed in Tariff + Export Tariff	£7,656	£ <mark>9,355.07</mark>	£1,699.07	
Power Sales (via our PPAs)	£12,187	£12,610.56	£423.56	Harbor
VAT repay	£0	£40.00	£40.00	
Sub total	£19,843	£22,005.63	£2,162.63	
Expenditure			Expenditure Difference	
Insurance	£1,262	£1,134.56	£127.44	Harbo
Accounting	£1,938	£1,440.00	£498.00	One – I
Equipment costs	£0	<mark>£0</mark>	£0	Financ
VAT	£0	£ <mark>1,979.43</mark>	-£1,979.43	rec
Investor interest payments	£8,254	£7,866.00	£388.00	(2
Capital repayment	£2,603	£ <mark>0</mark>	£2,603.00	
FCA payment	£0	£0	£0	
Business Rates	£368	£102.40	£265.60	
Harborough Energy Repay	£0	£ <mark>2,500.00</mark>	-£2,500.00	
Sub total	£14,425	£15,022.39	-£597.39	
Total	£5,418	£6,983.24	£1,565.24	

Harborough Solar One

Harborough Solar One – Project 1 & 2

Financials for most recent year (2020/21)

Cash at bank at 31st July 2021 - £ 24,082.70 (including invoices and cheques issued during accounting period)

Harborough Solar One – Project 1 & 2

Financial Management

SET ASIDE:

2020/21 = £ 8,000 2021/22 = £ 4,000 Total Virtual Set Aside = £ 12,000

'Remaining' cash at bank (as at 31JUL21) = £ 12,082.70

Harborough Solar One

As a reminder, the Directors agreed the following basic financial principles:

- Recognising the admin needs of the society, Harborough Solar One will budget for and pay an annual fee
- Over the next 5-7 years, we will build a reserve for inverter replacement for Woodnewton and Archway (NBJ is a younger installation)
- We will hold back some reserve funds for 'lean years' as predicted in the financial model

Harborough Solar Projects Solar PV Performance

David Robbins / John Twidell



OUR CURRENT PROJECTS Harborough Solar - Project 1 (installed mid 2016)

Harborough Solar One

Links to our case studies for **Woodnewton** and **Archway**

Woodnewton Academy - Corby 56.2 kW installation across 4 roofs



Archway House - Harborough 10.3 kW installation



OUR CURRENT PROJECTS Harborough Solar - Project 2 (installed end 2018)

Link to our news article about <u>NBJ</u>

NBJ Joinery - Sibertoft Road, Husbands Bosworth 102.6 kW ground mounted installation



Harborough Solar - Summary Solar PV Output

Our 170 kW of community owned installations at Woodnewton, Archway and then NBJ have generated 524,000 kWh* of clean electricity since our first installations in AUG 2016 - saving 237 Tonnes of CO2*

Notes - 'Capacity Factor' indicates relative efficiency independent of size (avg. was 10.8% for UK solar PV in 2019) - *Project 1 output approx. 11 mths of 16/17; Project 2 output approx. 7 mths in 18/19.*

Note:

There was a overall DROP of 22% in annual output for 2020/21 over previous year - 15% for Project 1 and 26% for Project 2

* As at 02AUG21 - data from **The Energy** Meter Information Gateway (<u>eMIG</u>)

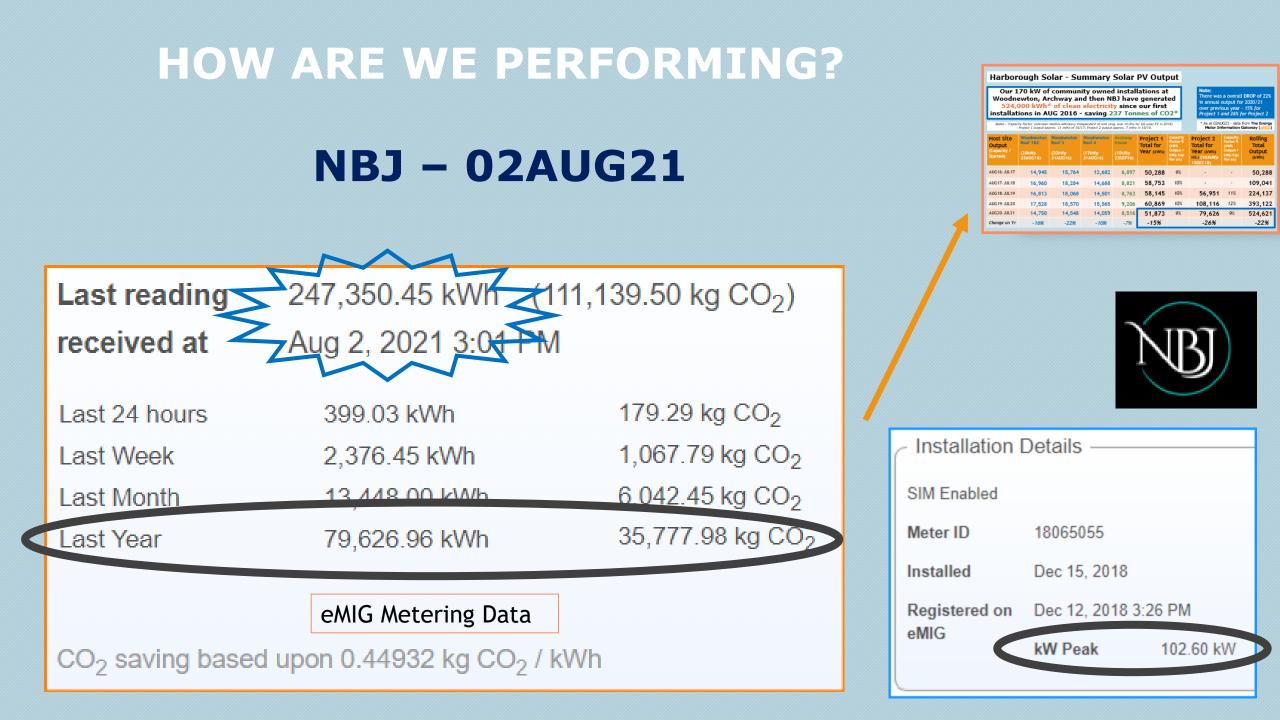
Host Site Output (Capacity / Started)	Woodnewton Roof 1&2 (20kWp 23AUG16)	Woodnewton Roof 3 (20kWp 31AUG16)	Woodnewton Roof 4 (17kWp 31AUG16)	Archway House (10kWp 23SEP16)	Project 1 Total for Year (kWh)	Capacity Factor % (kWh Output / kWp Cap Per An)	Project 2 Total for Year (kWh) NBJ (103kWp 15DEC18)	Capacity Factor % (kWh Output / kWp Cap Per An)	Rolling Total Output (kWh)
AUG16-JUL17	14,945	15,764	12,682	6,897	50,288	9 %	-	-	50,288
AUG17-JUL18	16,960	18,284	14,688	8,821	58,753	10%	-	-	109,041
AUG18-JUL19	16,813	18,068	14,501	8,763	58,145	10%	56,951	11%	224,137
AUG19-JUL20	17,528	18,570	15,565	9,206	60,869	10%	108,116	12%	393,122
AUG20-JUL21	14,750	14,548	14,059	8,516	51,873	9 %	79,626	9 %	524,621
Change on Yr	-16 %	-22%	- 10 %	-7%	-15%		-26%		-22%

Our 170 kW of community owned installations at Woodnewton, Archway and then NBJ have generated 4,000 kWh* of clean electricity since our first stallations in AUG 2016 - saving 237 Tonnes of CO2 WOODNEWTON ROOF 1&2 - 02AUG21 50,288 109,041 224,137 393,122 51,873 79,626 524,621 -22% Last reading 81,027.93 kWh (36,407.47 kg CO₂) Woodnewton Aug 2, 2021 12:59 PM received at 20.48 kg CO₂ Last 24 hours 45.59 kWh Installation Details 63.64 kg CO₂ Last Week 141 63 kWh 852.18 kg CO2 SIM Enabled 1 896 61 k\//h Last Month Meter ID 16079837 6,627.50 kg CO₂ Last Year 14,750.07 kWh Installed Aug 23, 2016 Aug 24, 2016 8:46 AM Registered on eMIG Metering Data eMIG kW Peak 19.76 kW CO₂ saving based upon 0.44932 kg CO₂ / kWh

Harborough Solar - Summary Solar PV Output

HOW ARE WE PERFORMING?

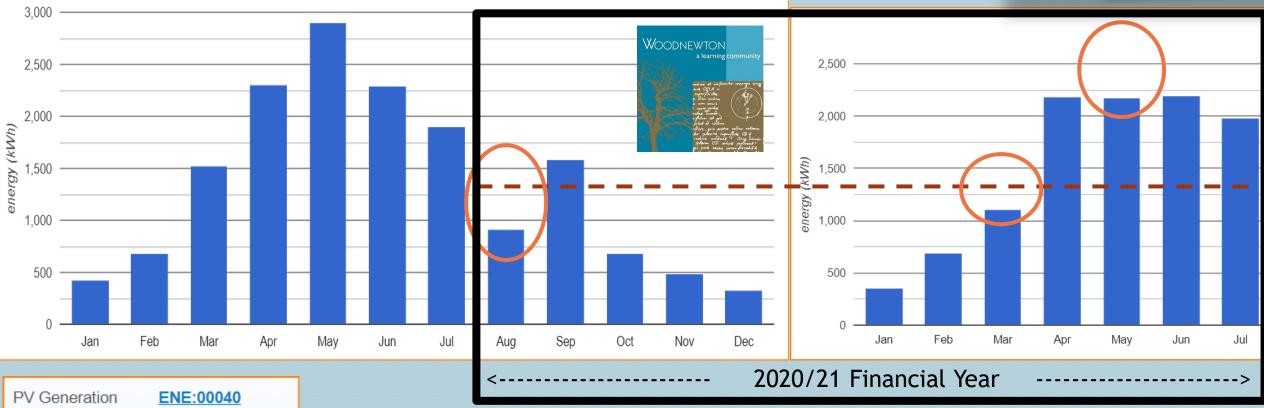
		PERFORMING SE – 02AUG2		Hotorough Solar - Summary Solar PV Output Mora 170 kW of community owned installations at Woodnewton, Archway and then NBJ have generated at the Solar S
Last reading		(19,003.80 kg CO ₂)		
received at	Aug 2, 2021 2:5	8 PM		Archway HEALTH HUB
Last 24 hours	30.82 kWh	13.85 kg CO ₂	 /,	
Last Week	223.02 kWh	100.21 kg CO ₂		Installation Details
Last Month	1 199 71 k\//h	539.05 kg CO ₂		SIM Enabled
Last Year	8,516.52 kWh	3,826.64 kg CO ₂	5	Meter ID 16079836
				Installed Sep 23, 2016
	eMIG Metering Dat	ta		Registered on Sep 21, 2016 2:36 PM eMIG
CO ₂ saving base	d upon 0.44932 kg C	O ₂ / kWh		kW Peak 10.26 kW



HOW ARE WE PERFORMING? Woodnewton Rf1&2 – AUG20 to JUL21

Harborough Solar One

Change on previous year is: -16%

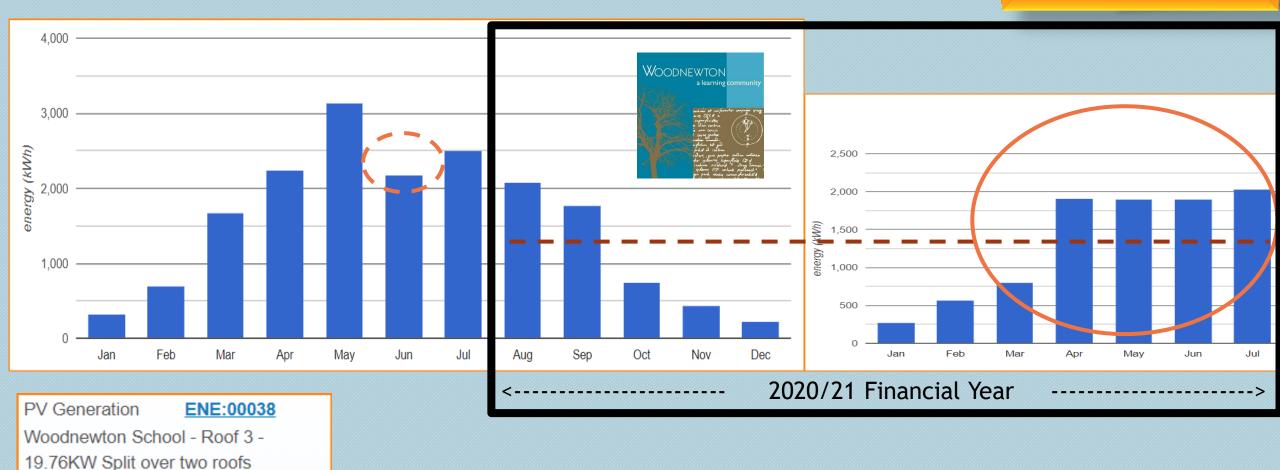


Roof 1 & 2 , 20kw Woodnewton School, Corby Roof 1 - 54 panels Roof 2 - 22 panels

HOW ARE WE PERFORMING? Woodnewton Rf3 – AUG20 to JUL21

Harborough Solar One

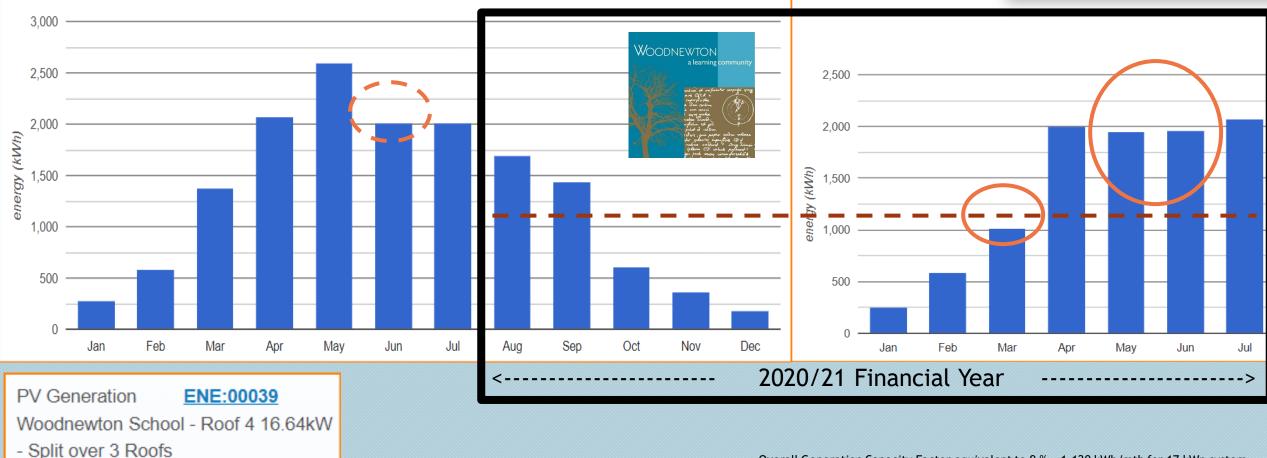
Change on previous year is: -22%



HOW ARE WE PERFORMING? Woodnewton Rf4 – AUG20 to JUL21

Harborough Solar One

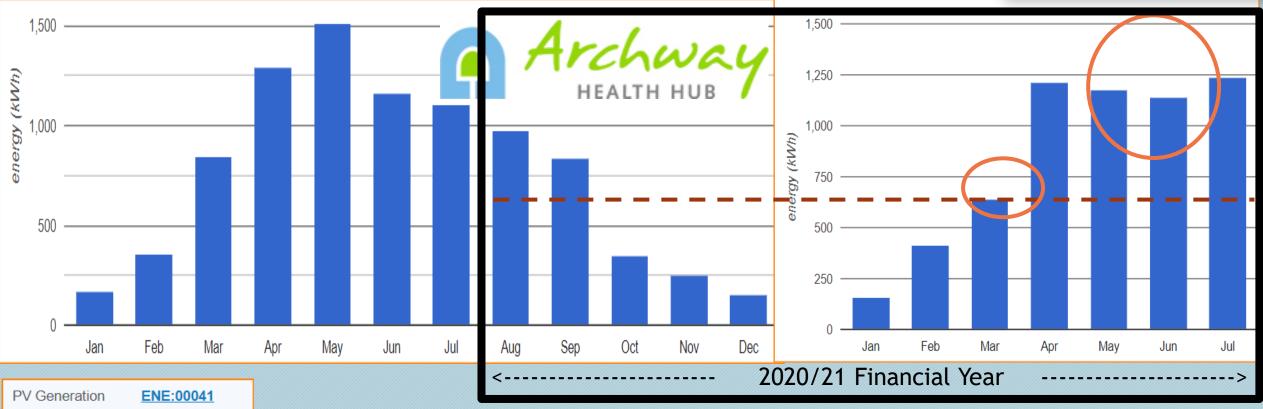
Change on previous year is: -10%



HOW ARE WE PERFORMING? Archway – AUG20 to JUL21

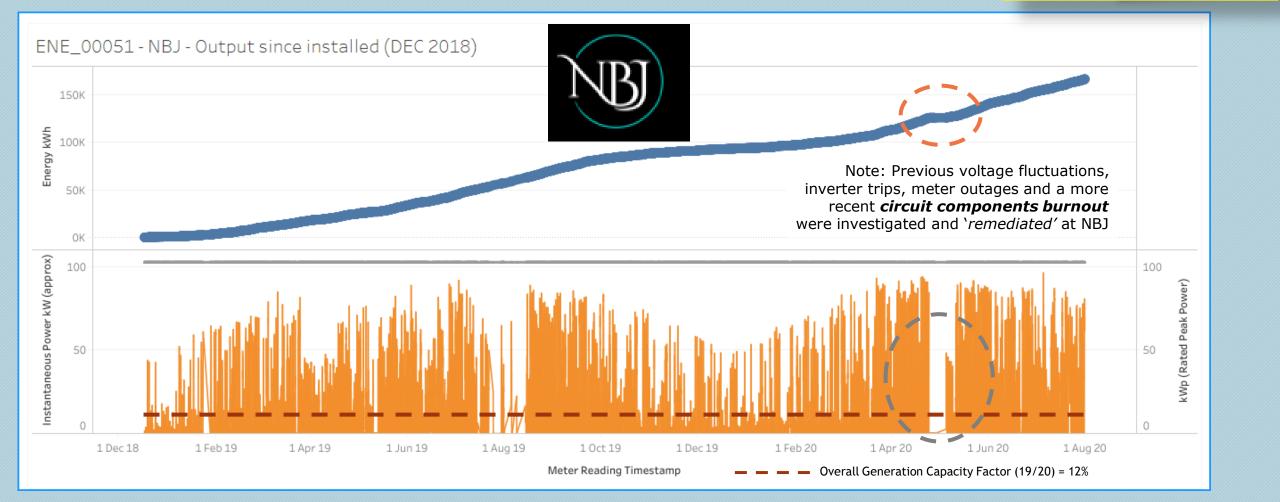
Harborough Solar One

Change on previous year is: -7%



Sustainable Harborough - Archway Natural Health Centre Market Harborough - 38 Panels - 10.26kW

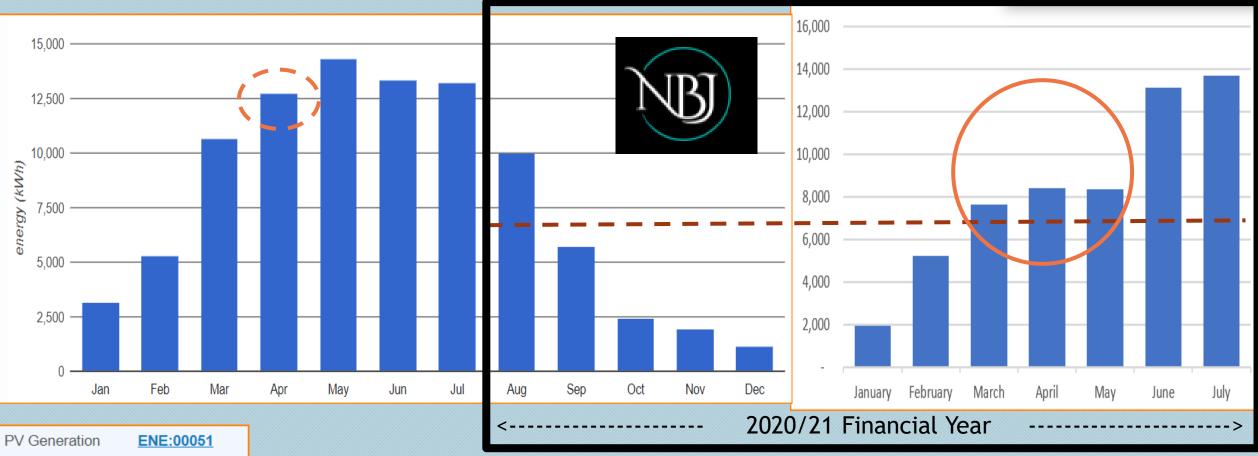
HOW ARE WE PERFORMING? NBJ – <u>Previously</u> JAN19 to JUL20



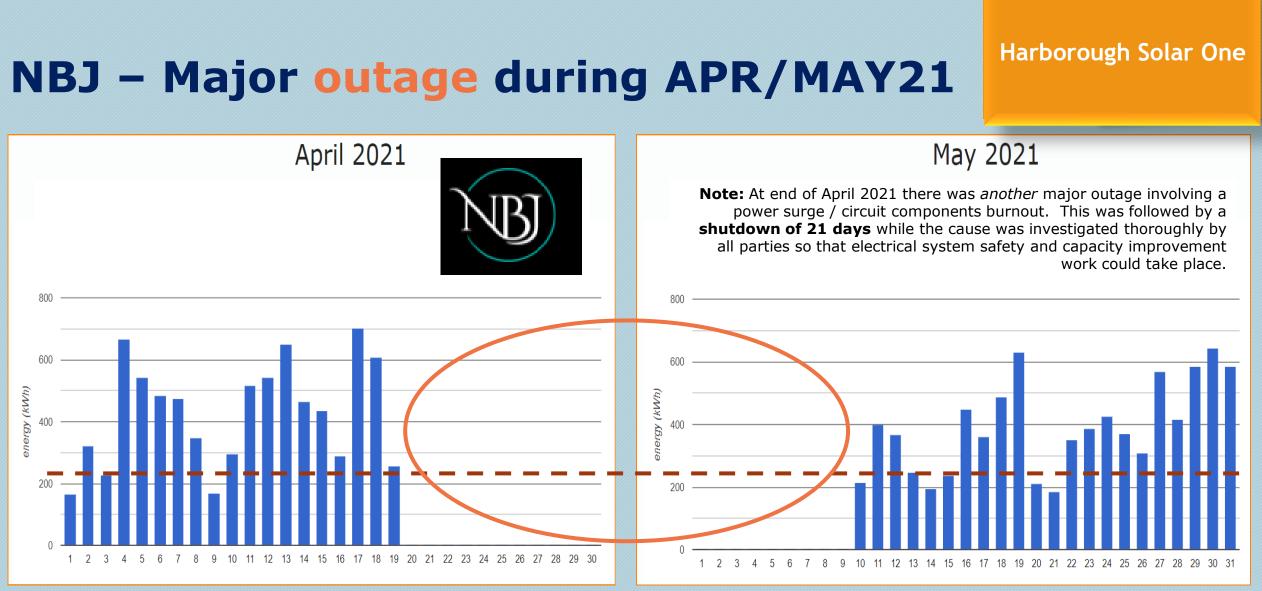
HOW ARE WE PERFORMING? NBJ – AUG20 to JUL21

Harborough Solar One

Change on previous year is: -26%



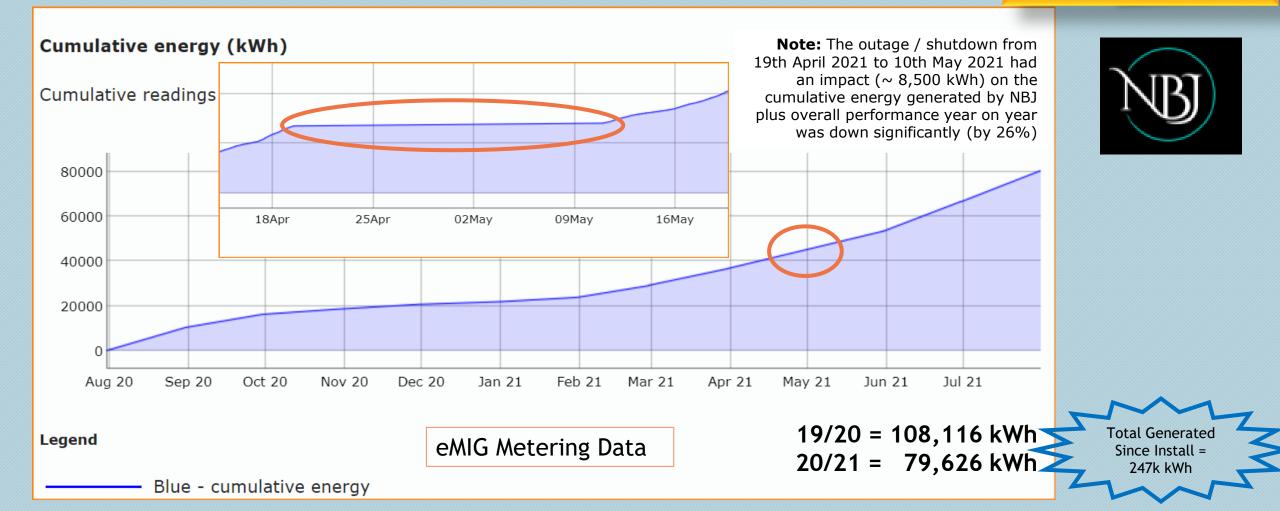
NBJ Joinery - Harborough Solar 1



HOW ARE WE PERFORMING?

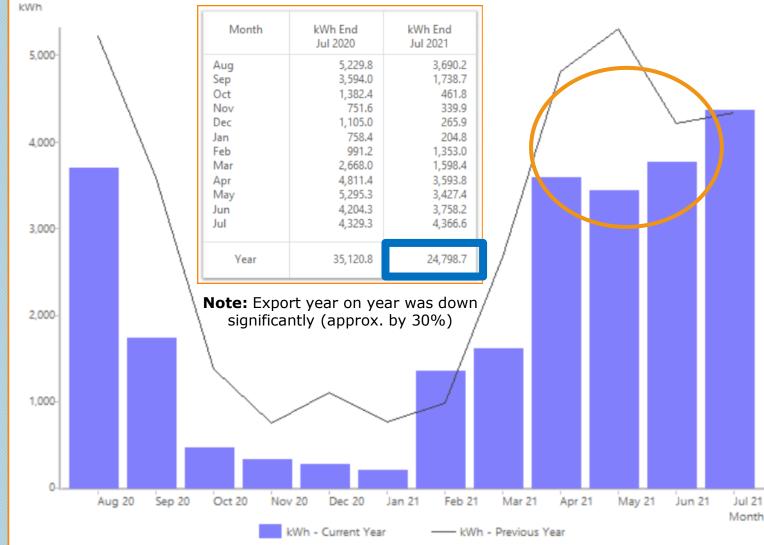
HOW ARE WE PERFORMING?

NBJ – From 01AUG20 to 30JUL21



HOW ARE WE PERFORMING?

NBJ Exported Energy (01AUG20 to 31JUL21)



Harborough Solar One



Note: In addition to regular payments from our hosts under their Power Purchase Agreement (PPA), Harborough Solar One are paid quarterly (via <u>Good</u> <u>Energy</u>) for our generated electricity and for the electricity '**exported**' by the host site (at rates set by the Government in our Feed in Tariff agreements).

This is either:

- 'Deemed' at 50% for Woodnewton and Archway (reported via <u>EMIG</u>) or
- 'Metered' as with NBJ (via Stark)

Our Exported Energy (01AUG20 to 31JUL21) CO2 saved – a different view ...

Annual Energy Exported

NBJ (Metered via Stark) = 24,799 kWh

Woodnewton + Archway (Deemed 50%) = 25,936 kWh

This could power around 14 UK households for a year *

Annual CO2 equivalent saved **

NBJ (Metered via Stark) = 5,917 kg CO2

Woodnewton + Archway (Deemed 50%) = 6,562 kg CO2

(Note: This does **not** include the CO2 saved by the host sites)

Month NBJ	kWh Year Ending Jul 2021	kg CO2e Year Ending Jul 2021
Aug	3,690	934
Sep	1,739	440
Oct	462	117
Nov	340	86
Dec	266 205	67 48
Jan Feb	1,353	316
Mar	1,598	373
Apr	3,594	839
May	3,427	800
Jun	3,758	877
Jul	4,367	1,019
Total	24,799	5,917
kg CO22 1,000- 800- 600- 400- 200-	O2e Year Ending Jul 2	021
kg CO2a 1,000- 800- 600- 400-	O2e Year Ending Jul 2 Oct Nov Jan Feb Mar	

March Solar - Summary Solar PV Output

Dur 170 kW of community owned installations at Oxdonewton, Archway and then NBJ have generated S24,000 kWh* of clean electricity since our first Installations in AUC 2016 - saving 237 Tomes of CO2 March Solar PV Solar PV Solar PV Solar March Solar PV Solar PV Solar PV Solar Not Solar PV Solar PV Solar PV Solar PV Solar Not Solar PV Solar PV Solar PV Solar PV Solar PV Solar PV Solar Not Solar PV Solar

* Energy: Assumes 10 kWh per day per household further info on <u>Typical</u> <u>Domestic Consumption Values</u> available via OfGEM.

** CO2: Stark use the lower, more recent (2019) Government conversion figure of 0.253 kg CO2 / kWh compared to the older (2016) figure used by eMIG (0.4492)

NBJ Generated / Exported

2020/21 = 79k / 25k (kWh)

Since Install = 247k / 72k (kWh)

Reminder – Our Performance

(as at 02AUG21)

Harborough Solar - Summary Solar PV Output

Our 170 kW of community owned installations at Woodnewton, Archway and then NBJ have generated 524,000 kWh of clean electricity since our first installations in AUG 2016 - saving 237 Tonnes of CO2

Note: NBJ was installed in DEC 2018 and has already generated 47% (247,000 kWh) of our total energy – despite two significant outages.

TECHNICAL SUMMARY (JT) Outages of NBJ Solar Array

There have been two significant outages:

2019/20: 25th April 2020 (12:45) to (10:30) **5th May 2020 (10 days)**

- Loss ~387 kWh/day; total very approx. 3,870 kWh (at 9p/kWh = ~£350)
- Burning and failure of connections in the Power Hut where the solar power joins with the factory power (~ 50m from the solar array)
- Western Power reduced the voltage of the local grid transformer and the solar installers replaced components under guarantee

2020/21: 19th April 2021 (12:02) to (13:30) **10th May 2021 (21 days)**

- Loss ~387 kWh/day; total very approx. 8,127 kWh (at 9p/kWh = ~£730)
- More extensive burning and failure of connections and components in the Power Hut. Another company was called in to totally replace the connection layout and components.
- Harborough Solar called in an independent assessor who concluded that the original components had been underrated. He was satisfied that the new connection circuitry and components are now satisfactory.

Annual General Meeting - AGENDA

- Annual General Meeting Formalities / Resolutions (PJ) (approx. 20 mins)
 - Directors Resignations
 - Nominations and appointment to the Board of Directors
 - Receipt of Accounts
 - Close of formal business

Annual General Meeting Formalities

- Directors Resignations
 - Neil Burke, Sharon Burke
- Nominations and appointment to the Board of Directors
 - Not re-standing No new nominees
 - Members Vote (via video conference) Not Required

Annual General Meeting Formalities (contd.)

Harborough Solar One

- Annual Accounts (2020/21)
 - Board of Management's Report (PJ)
 - Introduction / Overview (GF / MB)

Note: The full 2020/21 annual accounts for Harborough Solar One (as reviewed and accepted by the Board) have been circulated electronically to members in advance of the AGM.

Once approved by the AGM, they are submitted to the FCA via their website - https://mutuals.fca.org.uk/Search/Society/1576

Annual Accounts (extract) – Cover / Company Info

Harborough Solar One Financial Conduct Authority Registration No. 7169 Board of Management Peter Jones (Chair) Darren Woodiwiss David Robbins John Twidell Gavin Fletcher (Treasurer) Neil Burke Sharon Burke Neil Burke Secretary Company number 7169 The Stables Registered office 32 Main Street, Ashley Market Harborough LE16 8HF Master Accounting Limited Accountants The Stables 32 Main Street, Ashley Market Harborough LE16 8HF Business address The Stables 32 Main Street, Ashley Market Harborough LE16 8HF

HARBOROUGH SOLAR ONE LIMITED

BOARD OF MANAGEMENT REPORT AND FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31 JULY 2021

MASTER ACCOUNTING LIMITED THE STABLES **32 MAIN STREET, ASHLEY** MARKET HARBOROUGH **LE16 8HF**

BOARD OF MANAGEMENT'S REPORT

FOR THE YEAR ENDED 31 JULY 2021

The board of management present their report and financial statements for the year ended 31 July 2021.

Principal activities

The principal activity of the society was to carry on the business for the benefit of the community by facilitating renewable energy generation and sustainable energy activities in the Market Harborough area.

Board of Management

Members of the board of management who served from 1 August 2020 were:

Peter Jones (Chair) Darren Woodiwiss David Robbins John Twidell Gavin Fletcher (Treasurer) Neil Burke Sharon Burke

During the year the society has managed the solar installations in three locations - Woodnewton Academy, Archway Health and Wellbeing, and NBJ Limited. Despite a reduction in overall generation due to outages and other operational factors, income levels were maintained and we were again happy to pay interest to members at 5% for those who invested in Project 1 (Woodnewton and Archway) and an investment payment of 4% was paid to our investors in Project 2 (NBJ Limited).

We look forward to continuing to manager these installations on behalf of members.

The directors acknowledge their responsibilities for complying with the requirements of the Co-operative and Community Benefit Societies Act 2014 with respect to accounting records and the preparation of accounts.

On behalf of the board

STATEMENT OF COMPREHENSIVE INCOME

FOR THE YEAR ENDED 31 JULY 2021

	Notes	2021 £	2020 £
Turnover		21,934	20,270
Operating Costs		21,971	14,597
Operating surplus/(deficit)	2	(37)	5,672
Other interest receivable and similar income		-	-
Interest payable and similar charges	3	(7,906)	(7,998)
Surplus/(Deficit) on ordinary activitie taxation	es before	(7,943)	(2,326)
tax on surplus on ordinary activities	4	-	-
Surplus/(Deficit) for the year		(7,943)	(2,326)

	Notes	2021 £ £	:	2020 £	£
Fixed assets Tangible assets	6		145,387		154,322
		-	145,387		154,322
Current assets Stocks		-			
Debtors Cash at bank and in hand	7	3,744 21,500		1,328 14,487	
		25,244		15,815	
Creditors: amounts falling due within one year	8	(1,849)		(1,412)	
Net current assets			23,395		14,403
Total assets less current liabilities			168,782		168,725
Creditors: amounts falling due after one year	9	-	(8,000)		-
-	•	=		:	
Capital and reserves Investment capital project 1 Investment capital project 2			83,490 99,000		83,490 99,000
Grants Reserves			10,000 (31,708)		10,000 (23,765)
		-	160,782	·	168,725

1 Accounting policies

1.1 Accounting convention

The financial statements are prepared under the historical cost convention and in accordance with FRS 102.

1.2 Turnover

Turnover represents amounts receivable for goods and services net of VAT and trade discounts.

1.3 Tangible fixed assets and depreciation

Tangible fixed assets are stated at cost less depreciation. Depreciation is provided at rates calculated to write off the cost less estimated residual value of each asset over its expected useful life as follows:

Plant and machinery

- 5% Straight line

1.4 Investments

Fixed asset investments are stated at cost less provision for permanent diminution in value.

2	Operating Surplus		2021 £	2020 £
	Operating profit is stated after char Depreciation of tangible assets	ging:	8,935	7,676
3	Interest payable and similar cha	rges	2021 £	2020 £
	Bank interest Members' interest	Project 1 Project 2 Unallocated	2,978 3,582 1,347 7,906	3,905 - 3,905
4	Taxation		2021 £	2020 £
	Domestic current year tax U.K. corporation tax			-
	Current tax charge		-	-

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5	Intangible fixed assets	
	Cost	£
	At 1 August 2020 Additions	:
	At 31 July 2021	-
	Depreciation At 1 August 2020 Charge for the year	:
	At 31 July 2021	-
	Net book value	
	At 31 July 2021	-
	At 1 August 2020	-

6 Tangible fixed assets

	Plant & Machinery	Furniture & Fittings		Total
Cost At 1 August 2020 Additions Disposals	178,693	-	-	178,693
At 31 July 2021	178,693	-		178,693
Depreciation At 1 August 2020 Charge for the year Disposals	24,371 8,935 -	-	-	24,371 8,935 -
At 31 July 2021	33,306	-	-	33,306
Net book value				
At 31 July 2021	145,387	-	-	145,387
At 1 August 2020	154,322	-	-	154,322
7 Debtors			2021 £	2020 £
Trade Debtors NBJ (LONDON) Ltd Woodnewton Academy Tru	st	425 3,165	3,590	1,175
Prepayments Naturesave (operational all Naturesave (directors and o	risks) Paid up to 05/09/21 officers) Paid up to 11/10/21	71 83	154 3,744	<u> </u>
8 Creditors: amounts falling	g due within one year	_	2021 £	2020 £
Accruals Trade Creditors Tax (VAT)	Master Accounting - 2021 Master Accounting - 2020		700 480 669	700 360 352
* £240 of this was paid by H Harborough Solas One Ltd	larborough Energy Ltd, therefore needs to reimburse HE	-	1,849	1,412

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	2021 £	2020 £
Operating Costs	r.	Ľ
Wages	-	
Consultancy Fees	-	-
Management services	2,500	2,500
Rent & Rates	102	64
Utilities	-	-
Insurance	1,134	1,138
Repairs and maintenance	8,000	-
Printing, postage and stationery	-	
Advertising	-	
Telephone & Internet	-	
Motor running expenses	-	
Travelling expenses	-	-
Entertaining	-	-
T Costs	-	-
Professional Fees	-	660
Bank Charges	-	-
Bookkeeping & Accountancy Fees	1,300	1,300
Sundry expenses	-	
Subscriptions/Membership Fees	-	
Depreciation on intangible assets	-	
Depreciation	8,935	8,935
	21,971	14,597

Annual General Meeting Formalities (contd.)

Harborough Solar One

Receipt of Accounts – Proposal for Acceptance

Annual General Meeting - Other Items

Application of Profit to our Community Benefit Fund

The following financial principles were agreed at the previous HS1 AGM.

The Directors have not spent any funds yet.

It was agreed that:

- Approximately £4,000 per annum will be allocated (to be finalised by the Directors)
- Members will be involved in the application of Community Benefit Funding

Annual General Meeting - Other Items

- Investor returns (potential for 2021/22)
- Warm Homes / Harborough Energy
- New Directors from Members
- Any other agreed business (Business Development)

• Close

For further details,

please visit our website:

www.HarboroughEnergy.co.uk

Or contact us on:

Info@HarboroughEnergy.co.uk

Harborough Solar One

Our Generation data is provided by The Energy Meter Information Gateway (eMIG) -

an online tool for remotely measuring and monitoring energy generation.

Our Export data is provided by **STARK** – a <u>specialist platform</u> for energy data and analytics.