Harborough Solar One Annual General Meeting

12th November 2020 (via Video Conference) - DJR/v1.5/FINAL

HEALTH HUB





Harborough Energy is a not for profit cooperative formed in 2014 via Sustainable Harborough



WOODNEWTON a learning community

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Annual General Meeting - AGENDA

• Welcome and Introduction - Peter Jones (Chair)

- Projects Update 2020 (approx. 20 mins)

 - Solar PV Performance
 - Financial Summary Gavin Fletcher (Treasurer)
 - 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
 - Application of profits
 - Close of formal business
- Other Items (approx. 20 mins)
 - Investor returns
 - Community benefit fund
 - Any other agreed business
- Close

OUR PURPOSE

• To engage local organisations and businesses in the opportunities offered by installing low carbon systems like solar panels, battery storage, biomass and heat pumps to generate clean energy

• To show how the local community can 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 and improving the carbon footprint of local businesses, schools and public facilities

Harborough Solar Projects

Financial Summary

Gavin Fletcher / Mark Buckmaster



Cash at bank at 1st August 2019 - £13,682.55

Income	Predicted	Actual	Income Difference
Feed in Tariff + Export Tariff	£7,522	£6,710.78	-811.22
Power Sales (via our PPAs)	£11,859	<mark>£17,679.13</mark>	£5,820.13
VAT repay	£0	£50.00	£50.00
Sub total	£19,381	£24,439.91	£5,058.91
Expenditure			Expenditure Difference
Insurance	£1,255	£1,134.00	£121.00
Accounting	£1,914 £1,440.		£474.00
Equipment costs	£0	£792.00	-£792.00
VAT	£0	£2,054.49	-£2054.49
Investor interest payments	£8,385	£8,038.00	£347.00
Capital repayment	£2,603	<mark>£5,000.00</mark>	-£2,397.00
FCA payment	£129	£0.00	£129.00
Business Rates	£359	£64.45	£294.55
Harborough Energy Repay	£2,500	£2,500.00	£0
Sub total	£17,145	£21,022.94	-£3,877.94
Total	£2,236	£3,416.97	£1,180.97

Harborough Solar One

Harborough Solar One – Project 1 & 2

Financials for most recent year (2019/20)

Cash at bank at 31st July 2020 - £17,099.52 (including invoices and cheques issued during accounting period)

Harborough Solar One – Project 1 & 2

Financial Management

Harborough Solar One

Now that projects are maturing, the Directors have agreed some basic financial principles looking to the future:

- Recognising the admin needs of the society, Harborough Solar One will pay an annual fee to Harborough Energy
- Over the next 6-8 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

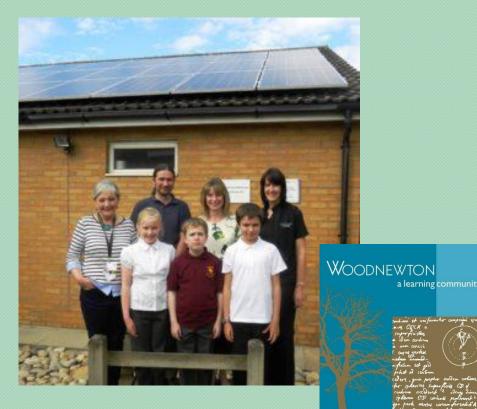


OUR CURRENT PROJECTS Harborough Solar - Project 1 (installed mid 2016)

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



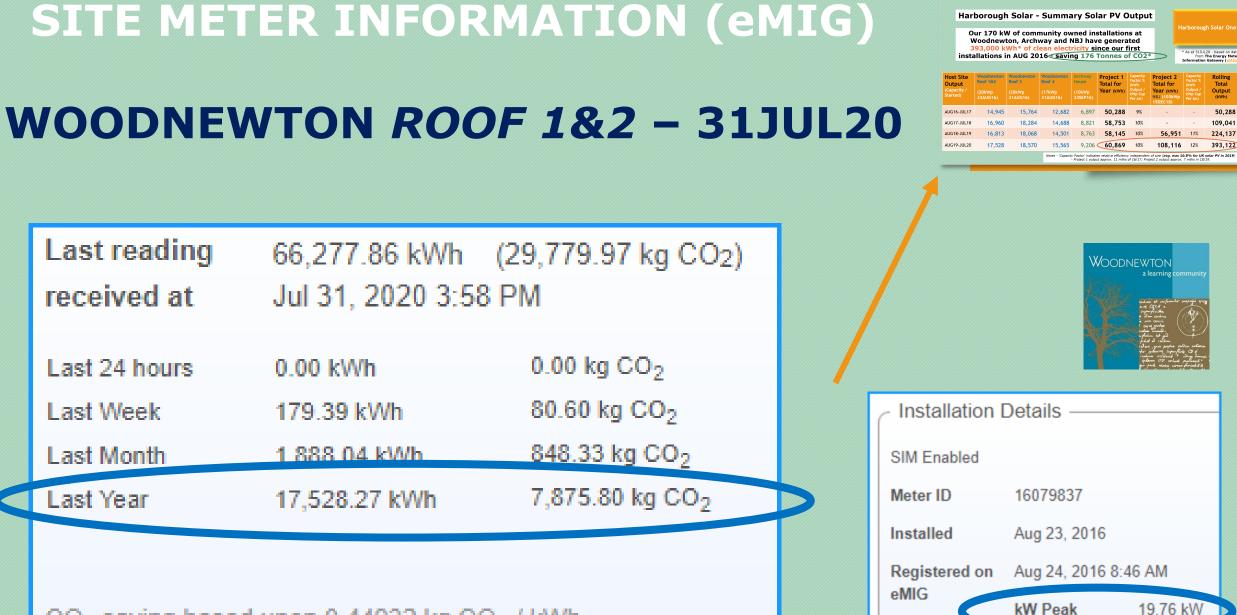
Harborough Solar - Summary Solar PV Output

Our 170 kW of community owned installations at Woodnewton, Archway and NBJ have generated 393,000 kWh* of clean electricity since our first installations in AUG 2016 saving 176 Tonnes of CO2* Harborough Solar One

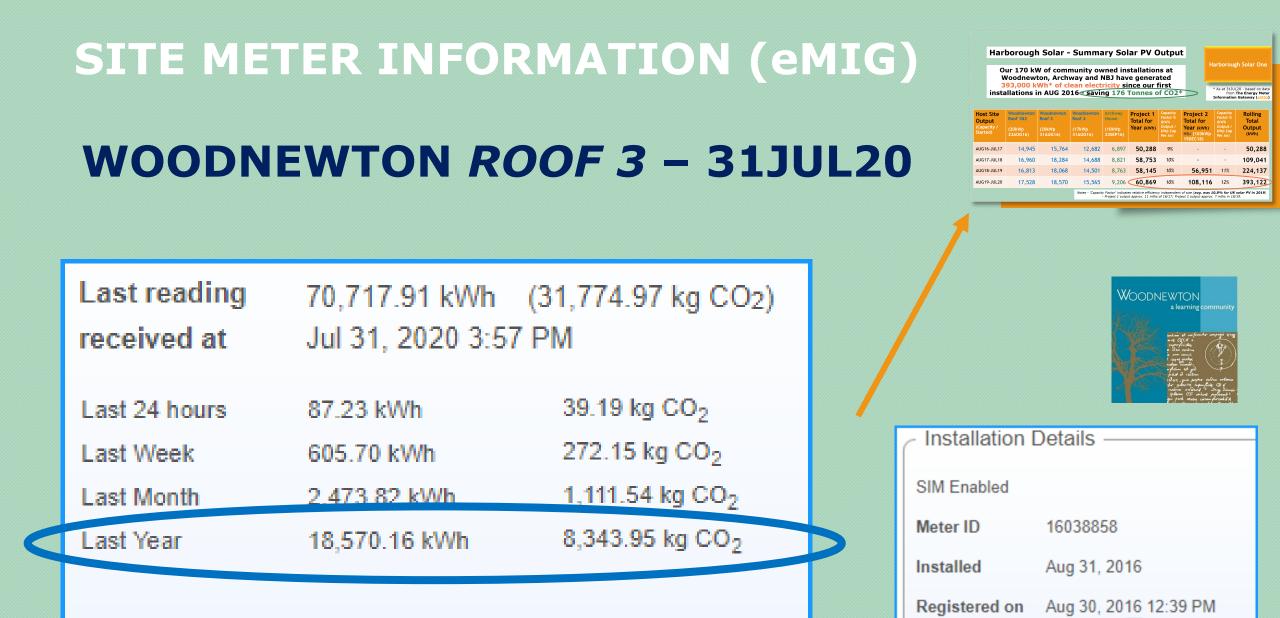
* As at 31JUL20 - based on data from The Energy Meter Information Gateway (eMIG)

Host Site Output (Capacity / Started)	Woodnewton Roof 162 (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

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.



CO₂ saving based upon 0.44932 kg CO₂ / kWh

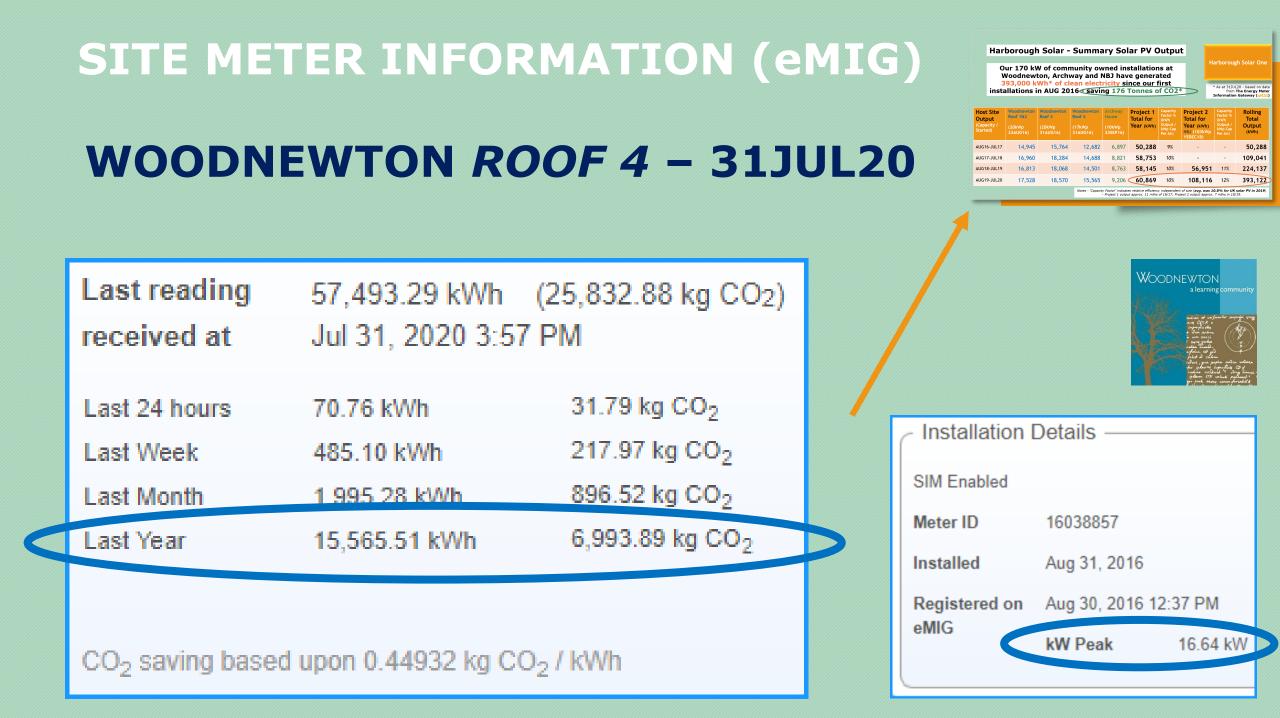


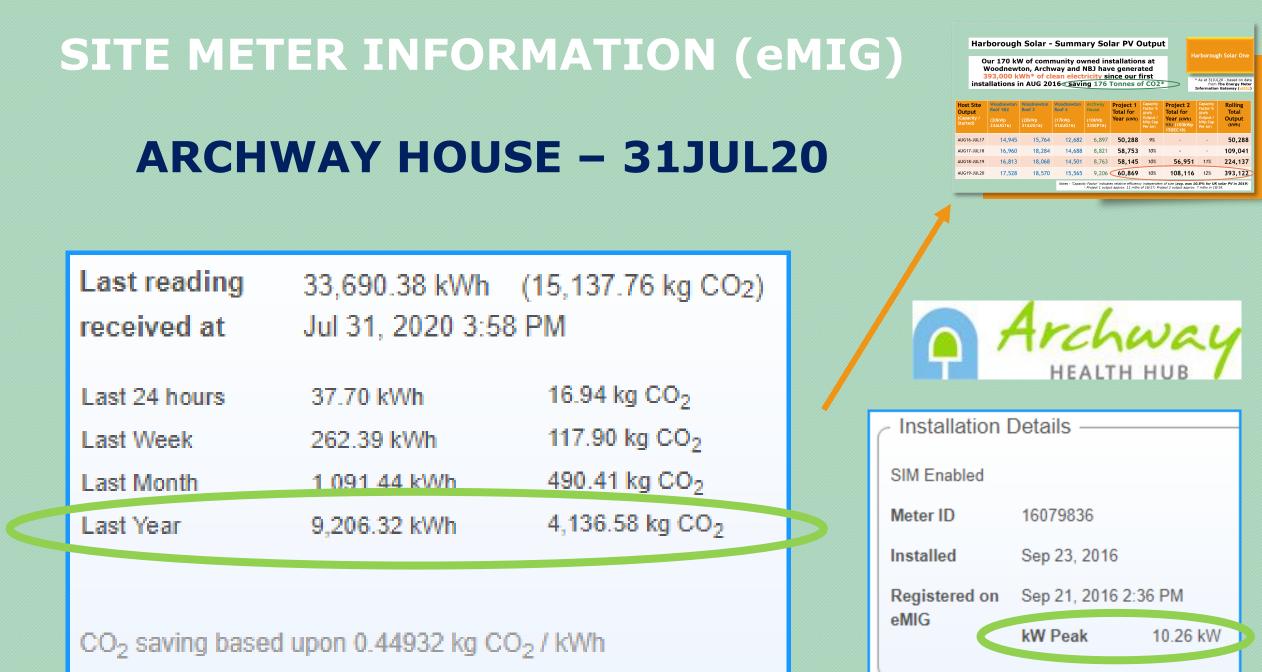
eMIG

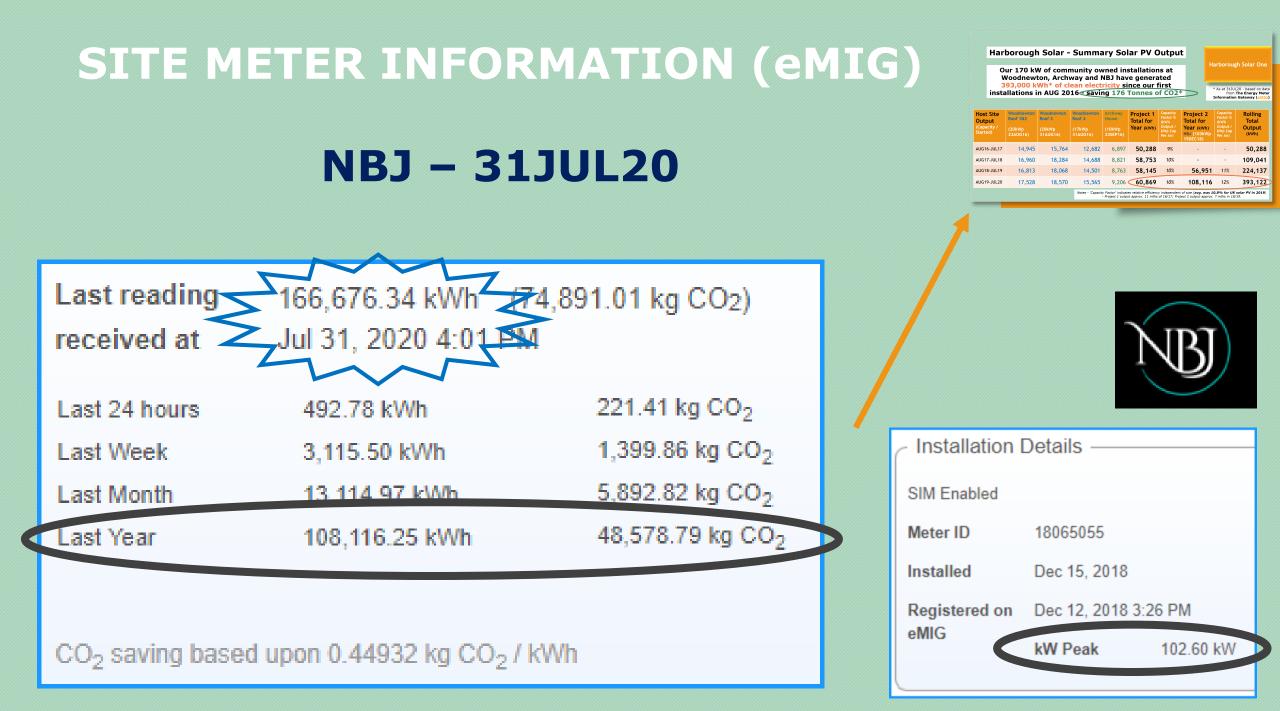
kW Peak

19.76 kW

CO2 saving based upon 0.44932 kg CO2 / kWh







DETAILED ANALYSIS (eMIG + Tools)

NBJ – Since install to 31JUL20

ENE_00051 - NBJ - Output since installed (DEC 2018) Total Generated = 167k kWh 150K Energy kWh 100K Note: Previous voltage fluctuations, inverter trips, meter outages and a more 50K recent blown fuse were investigated and have now been remediated at NBJ 0K Instantaneous Power kW (approx) 100 100 kWp (Rated Peak Power) 50 50 0 1 Jun 19 1 Dec 18 1 Feb 19 1 Oct 19 1 Dec 19 1 Feb 20 1 Jun 20 1 Apr 19 1 Aug 19 1 Apr 20 1 Aug 20

Meter Reading Timestamp

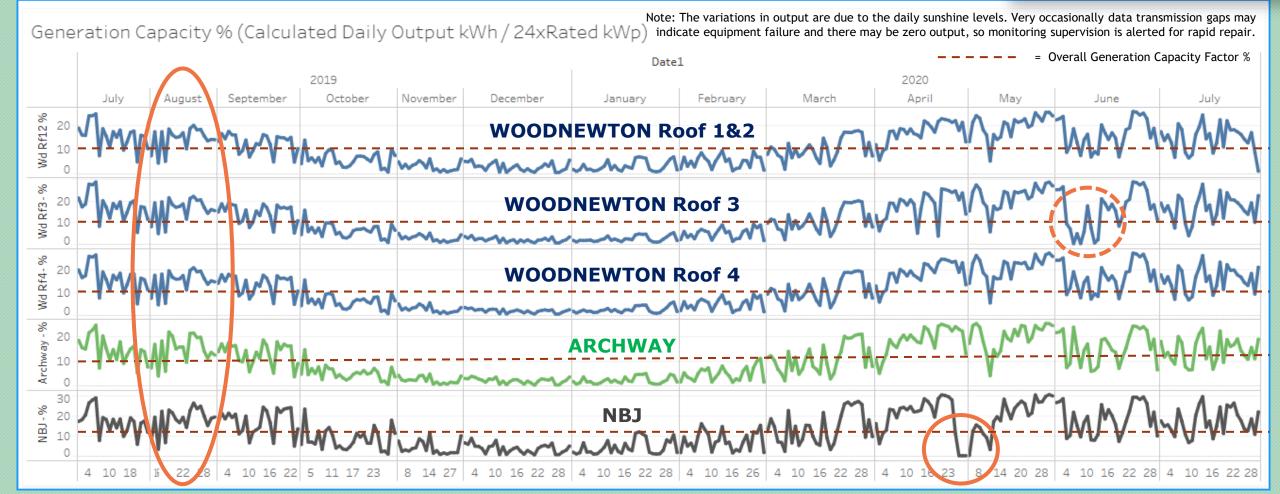
---- = Overall Generation Capacity Factor (~12%)

COMPARISON ACROSS OUR SITES Half Hourly Capacity Factor % (01JAN19 to 31JUL20)

Note: The variations in output are due to the daily sunshine levels. Very occasionally data transmission gaps may Solar Efficiency % (Instantaneous Output kW / Rated kWp) indicate equipment failure and there may be zero output, so monitoring supervision is alerted for rapid repair. = Overall Generation Capacity Factor % WOODNEWTON Roof 1&2 3 Effic., Wd Rf 182 Ef. 100 50 Roof 3 50 4 Effic. Wd Rf Archway Effi. Wd Rf 0 100 ARCHWAY 50 NBJ Efficienc. 100 **NBJ** 50 1 Sep 19 1 Jan 19 1 Mar 19 May 19 1 Jul 19 1 Jan 20 1 Mar 20 1 Jul 20 1 Nov 19 1 May 20 Meter Readings (Half Hourly)

COMPARISON ACROSS OUR SITES Daily Capacity Factor % (01JUL19 to 31JUL20)

ALERTS: We also get daily automated emails from eMIG if any site appears to be under performing. These are reviewed and appropriate action taken if they persist!



COMPARISON WITH OTHER SITES Generation Capacity (kWh/kWp) NBJ - JAN19 to SEP20

Graph is provided via the Sheffield Uni Microgen <u>website</u>.

We enter the NBJ data each month to provide anonymised comparisons with other sites across the country.



WHAT DID WE EXPORT?

NBJ Exported Energy (01AUG19 to 31JUL20)



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 (01AUG19 to 31JUL20) CO2 saved – a different view ...

Annual Energy Exported

NBJ (Metered via Stark) = 35,121 kWh

Woodnewton + Archway (Deemed 50%) = 30,434 kWh

This could power around 18 UK households for a year *

Annual CO2 equivalent saved **

NBJ (Metered via Stark)

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= 8,892 kg CO2
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Woodnewton + Archway (Deemed 50%) = 7,699 kg CO2

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

Month	kWh Year Ending Jul 2020	kg CO2 Year Ending Jul 2020							
Aug	5,230	1,324							
Sep	3,594	910							
Oct	1,382	350							
Nov	752	190							
Dec	1,105	280							
Jan	758	192							
Feb	991	251							
Mar	2,668	676							
Apr	4,811	1,218							
May	5,295	1,341							
Jun	4,204	1,064							
Jul	4,329	1,096							
Total	35,121	8,892							
	kg CO2 Year Ending Jul 2020								
	g CO2 Year Ending Ju	2020							
	g CO2 Year Ending Ju	2020							
kg CO2	g CO2 Year Ending Ju	2020							
kg CD2 1,200- 1,000-	g CO2 Year Ending Ju	2020							
kg CO2 1,200- 1,000- 800-	g CO2 Year Ending Ju								
kg CO2 1,200- 1,000- 800- 600-	g CO2 Year Ending Ju	2020							
kg CO2 1,200- 1,000- 800-	g CO2 Year Ending Ju								
kg CO2 1,200- 1,000- 800- 600-	g CO2 Year Ending Ju	2020							
kg CO2 1,200- 1,000- 800- 600- 400- 200- 0									
kg CD2 1,200 1,000 800 400 200- 0	g CO2 Year Ending Ju								
kg CO2 1,200 1,000 600 600 200 0 Åug 20									

> * 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

2019/20 = 108k / 35k (kWh)

Since Install = 167k / 47k (kWh)

Report Time Zone: (UTC+00:00) Dublin, Edinburgh, Lisbon, London (With Daylight Saving)

Harborough Solar - Summary Solar PV Output

Our 170 kW of community owned installations at Woodnewton, Archway and NBJ have generated 393,000 kWh* of clean electricity since our first installations in AUG 2016 saving 176 Tonnes of CO2* Harborough Solar One

* As at 31JUL20 - based on data from The Energy Meter Information Gateway (eMIG)

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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.

Annual General Meeting Formalities

- Directors Resignations
 - Peter Jones & Gavin Fletcher

- Nominations and appointment to the Board of Directors
 - Peter Jones & Gavin Fletcher offer themselves for re-election
 - Members Vote (via video conference)

Annual General Meeting Formalities (contd.)

Annual Accounts (2019/20)

Board of Management's Report (PJ)

Introduction / Overview (GF / MB)

Note: The full 2019/20 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 - <u>https://mutuals.fca.org.uk/Search/Society/1576</u>

Annual Accounts (extract) – Cover / Company Info

Financial Conduct Authority Registration No. 7169

HARBOROUGH SOLAR ONE LIMITED

BOARD OF MANAGEMENT REPORT AND FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31 JULY 2020

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

	Harborough Solar One	
Board of Management	Peter Jones (Chair) Darren Woodiwiss David Robbins John Twidell Gavin Fletcher (Treasurer) Neil Burke Sharon Burke	
Secretary	Neil Burke	
Company number	7169	
Registered office	The Stables 32 Main Street, Ashley Market Harborough LE16 8HF	
Accountants	Master Accounting Limited The Stables 32 Main Street, Ashley Market Harborough LE 16 8HF	
Business address	The Stables 32 Main Street, Ashley Market Harborough LE16 8HF	

BOARD OF MANAGEMENT'S REPORT

FOR THE YEAR ENDED 31 JULY 2020

The board of management present their report and financial statements for the year ended 31 July 2020.

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 2019 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. All sites are performing as expected and this year we were happy to pay interest to members at 5% for those who invested in Project 1 (Woodnewton and Archway) and our first 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 Act with respect to accounting records and the preparation of accounts.

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Harborough Solar One

On behalf of the board

Annual Accounts (extract) – Page 3

HARBOROUGH SOLAR ONE LIMITED

STATEMENT OF COMPREHENSIVE INCOME

FOR THE YEAR ENDED 31 JULY 2020

	Notes	2020 £	2019 £
Turnover		20,270	10,302
Operating Costs		14,597	19,761
Operating surplus/(deficit)	2	5,672	(9,460)
Other interest receivable and similar income			-
Interest payable and similar charges	3	(7,998)	(3,905)
Surplus/(Deficit) on ordinary activitie taxation	es before	(2,326)	(13,365)
tax on surplus on ordinary activities	4		
Surplus/(Deficit) for the year		(2,326)	(13,365)

Annual Accounts (extract) – Page 4

	Notes	£	2020	£		£	2019	£	
Fixed assets Tangible assets	6				154,322	_			163,257
					154,322	-			163,257
Current assets Stocks Debtors Cash at bank and in hand	7		- 1,328 14,487	_			- 749 13,683	_	
			15,815	-			14,432	-	
Creditors: amounts falling due within one year	8		(1,412)	_			(1,638)		
Net current assets					14,403				12,794
Total assets less current liabilities					168,725				176,051
Creditors: amounts falling due after one year					-	_			
Capital and reserves Investment capital project 1 Investment capital project 2 Grants Reserves					83,490 99,000 10,000 (23,765) 168,725	-			88,490 99,000 10,000 (21,440) 176,051
					168,725	-			176,051

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		2020 £	2019 £
	Operating profit is stated after char Depreciation of tangible assets	rging:	8,935	7,676
3	Interest payable and similar cha	rges	2020 £	2019 £
	Bank interest Members' interest	Project 1 Project 2	4,396 3,602 7,998	3,905
4	Taxation Domestic current year tax U.K. corporation tax		2020 £	2019 £
	Current tax charge		-	-

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Annual Accounts (extract) – Page 6

5 Intangible fixed assets

 Cost

 At 1 August 2019

 Additions

At 31 July 2020

Depreciation

At 1 August 2019 Charge for the year

At 31 July 2020

Net book value

At 31 July 2020

At 1 August 2019

6 Tangible fixed assets

		Plant & Machinery	Furniture & Fittings		Total E
	Cost				-
	At 1 August 2019	178,693	-		178,693
	Additions	-	-		-
	Disposals		-	-	-
	At 31 July 2020	178,693	-	-	178,693
	Depreciation				
	At 1 August 2019	15,436	-		15,436
	Charge for the year Disposals	8,935		1	8,935
	At 31 July 2020	24,371			24,371
	Net book value				
	At 31 July 2020	154,322	-		154,322
	At 1 August 2019	163,257	-	-	163,257
7	Debtors				
				2020	2019
				£	£
	Trade Debtors			1,175	592
	Prepayments			153	157
				1,328	749
8	Creditors: amounts falling due wi	thin one year		2020 £	2019 £
	Accruais			700	700
	Trade Creditors Tax (VAT)			360 352	240 698
	(av (av))			302	080
				1.110	4 000
				1,412	1,638
_					

– Page 7

Annual Accounts (extract) – Page 8

	2020 £	2019 £
Operating Costs	-	-
Wages		-
Consultancy Fees	-	-
Management services	2,500	-
Rent & Rates	64	-
Utilities	-	-
Insurance	1,138	900
Repairs and maintenance	-	-
Printing, postage and stationery	-	
Advertising	-	1,066
Telephone & Internet	-	-
Motor running expenses	-	-
Travelling expenses	-	-
Entertaining	-	40
IT Costs	-	170
Professional Fees	660	8,480
Bank Charges	-	-
Bookkeeping & Accountancy Fees	1,300	1,300
Sundry expenses	-	-
Subscriptions/Membership Fees	-	129
Depreciation on intangible assets	-	-
Depreciation	8,935	7,676
	14,597	19,761

Harborough Solar One

COVID-19 Discount

The COVID-19 pandemic and subsequent national lockdown started in March of this accounting period and included the final quarter of Power Purchase Agreement invoices covering April - June 2020. The Directors took the decision to reduce the invoices covering April - June by 50% for both Woodnewton Academy and Archway Health and Wellbeing as a gesture of good will and reflecting lower energy usage over the period.

Annual General Meeting Formalities (contd.)

Harborough Solar One

• Receipt of Accounts – Proposal for Acceptance

Annual General Meeting Formalities Application of Profit

Harborough Solar One

Following the application of the financial principles mentioned previously, the Directors are pleased to suggest applying an amount of retained profit to Community Benefit.

- It is proposed that going forward:
- Approximately £4,000 per annum is allocated (to be finalised by the Directors)
- Members are involved in the application of Community Benefit Funding
- Suggestions for uses of the fund are encouraged from members by 10th Jan 2021 (ahead of Board meeting on 21st Jan)

• The board seek 3 volunteer members to help decide on final application of Community Benefit Funding – anyone interested to email: harboroughenergy@gmail.com

Annual General Meeting Formalities (contd.)

Harborough Solar One

Application of profits – Proposed Resolution:

"The members agree to the ongoing application of an amount of profit to Community Benefit, as finalised by the Directors. This will be used to fund local energy related projects, as nominated each year by the Directors in conjunction with members."

Close of formal business

Annual General Meeting (contd.) Community Benefit Examples

Harborough Solar One

Some suggested projects we could fund (and deliver via a partner):

- Fuel vouchers for those in fuel poverty
- Advice or energy efficiency measures for those in fuel poverty
- Training or a bursary for energy related work for someone locally (e.g. Whole house retrofit)
- Energy saving measures for a community or school partner
- An open grant for organisations to apply to for energy related work

Annual General Meeting (contd.)

Harborough Solar One

- Other Items
 - Investor returns (potential for 20/21)
 - Any other agreed business

• 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.