

BRIGHTON ENERGY
COOPERATIVE 

New Projects 2018



This year will see BEC implement lots of new community-funded renewable projects. Our team has been beavering away to get these exciting new partnerships off the ground - this document contains an overview and the numbers behind them.

Individual action can do little about climate change - by joining BEC you can demonstrate that collective action makes a difference.

Will Cottrell, *Chairman, Brighton Energy Coop*

BCMY

System Size: 60kWp

Expected Generation:

57,000kWh/ pa

CO2 saved: 2675kg/ pa



Littlehampton-based BCMY recycle phones, ink and toner cartridges. BCMY are a great fit for BEC's community ethos - they donate much of the money raised from recycling goods to charity. The company operates from a 33,000 sq ft warehouse, which provides two optimum roofs: south-facing, tilted at an good angle and for great PV generation.



Medisort

System Size: 60kWp

Expected Generation:

54,000kWh/ pa

CO2 saved: 2430kg/ pa

Also based in Littlehampton, Medisort specialise in the recycling of medical waste. Medisort's 600m² roof is an ideal home for a 60kWp BEC system, saving the company thousands off their electricity bill each year.

RT Page

System: 100kWp

Expected Generation:

90,000kWh/ pa

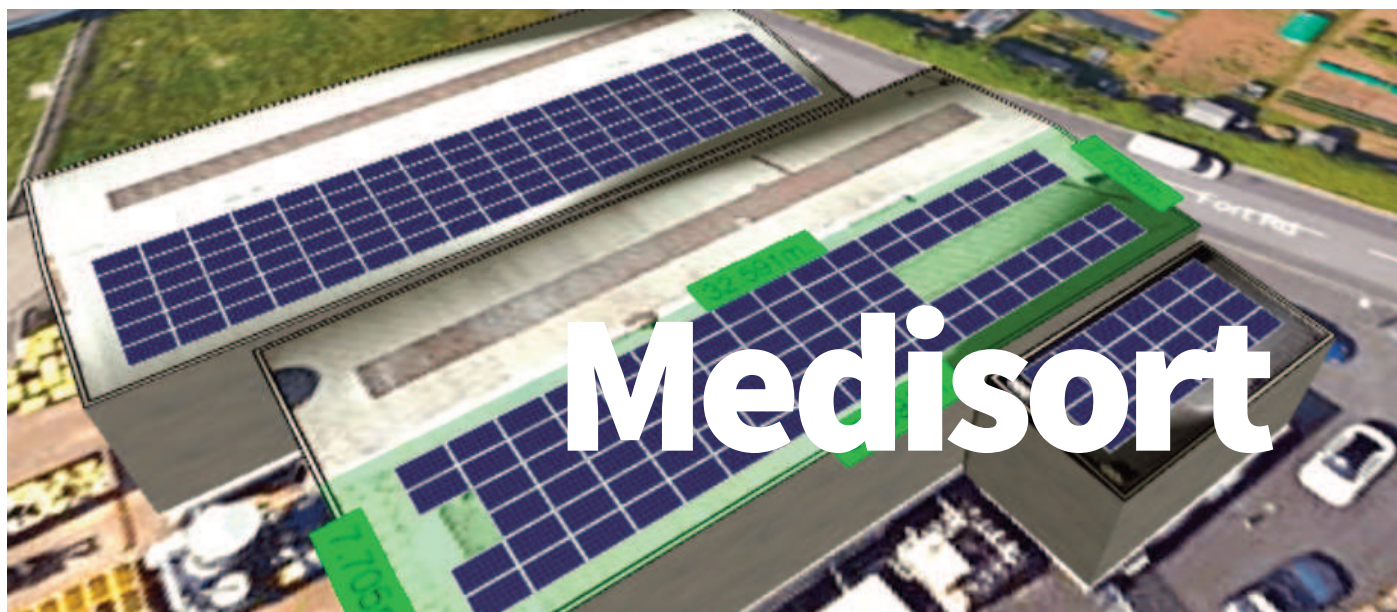
CO2 saved: 4050kg/ pa



RT Page is a distribution firm in Barnham, offering transport services across the UK & abroad. Our new PV system will stretch over RT Page's central and left-hand buildings (above), providing lots of power for RT Page's logistics systems.



Year	1	2	3	4	5	Years 6-20	Total
Energy produced (kWh)	57000	56430	55866	55307	54754	758,574	1,037,930
<u>Income</u>							
FITs	£2,366	£2,460	£2,497	£2,534	£2,571	£43,443	£55,870
Deemed Export	£1,434	£1,491	£1,513	£1,535	£1,558	£26,327	£33,858
Sales to Site	£2,736	£2,846	£2,888	£2,930	£2,974	£50,247	£64,620
<u>Total income</u>	<u>£6,535</u>	<u>£6,797</u>	<u>£6,897</u>	<u>£6,999</u>	<u>£7,102</u>	<u>£120,017</u>	<u>£154,348</u>
<u>Operating Expenses</u>							
Metering and monitoring	£50	£51	£53	£54	£55	£1,014	£1,277
Insurance	£240	£246	£252	£258	£265	£4,869	£6,131
Maintenance	£501	£514	£526	£540	£553	£10,164	£12,798
<u>Administration expenses</u>							
Coop administration/accounts cost	£600	£615	£630	£646	£662	£12,173	£15,327
Inverter sinking fund	£301	£308	£316	£324	£332	£6,099	£7,679
Depreciation	£2,505	£2,505	£2,505	£2,505	£2,505	£37,575	£50,100
<u>Total operating and admin costs</u>	<u>£4,197</u>	<u>£4,239</u>	<u>£4,282</u>	<u>£4,327</u>	<u>£4,372</u>	<u>£71,894</u>	<u>£93,311</u>
<u>Profit before tax and interest</u>	<u>£2,338</u>	<u>£2,558</u>	<u>£2,615</u>	<u>£2,673</u>	<u>£2,730</u>	<u>£48,122</u>	<u>£61,037</u>
<u>Cashflow projections</u>							
<u>Cash In</u>							
Ordinary share issue	£50,100						
Income from power generated	£6,535	£6,797	£6,897	£6,999	£7,102	£120,017	£154,348
<u>Total cash income</u>	<u>£56,635</u>	<u>£6,797</u>	<u>£6,897</u>	<u>£6,999</u>	<u>£7,102</u>	<u>£120,017</u>	<u>£204,448</u>
<u>Cash Out</u>							
Capital equipment (ex VAT)	£50,100						
Operational and admin expenses	£1,692	£1,734	£1,777	£1,822	£1,867	£34,320	£43,211
Annual interest assumption	£0	£0	£0	£0	£0		
Interest on shares	£0	£2,505	£2,380	£2,254	£2,129	£16,909	£26,177
Repayment of shares	£0	£2,505	£2,505	£2,505	£2,505	£40,080	£50,100
<u>Total cash out</u>	<u>£51,791</u>	<u>£6,744</u>	<u>£6,662</u>	<u>£6,581</u>	<u>£6,501</u>	<u>£88,803</u>	<u>£167,083</u>
<u>Net cash flow (surplus)</u>	<u>£4,843</u>	<u>£53</u>	<u>£236</u>	<u>£418</u>	<u>£601</u>	<u>£31,213</u>	<u>£37,365</u>



Year	1	2	3	4	5	Years 6-20	Total
Energy produced (kWh)	54,000	53,460	52,925	52,396	51,872	718,649	983,303
Income							
FITs	£2,241	£2,331	£2,365	£2,400	£2,436	£41,156	£52,929
Sales to Site deemed export	£3,024	£3,145	£3,192	£3,239	£3,287	£55,536	£71,422
	£1,358	£1,345	£1,331	£1,318	£1,305	£18,074	£24,730
Total income	£6,623	£6,821	£6,888	£6,957	£7,027	£114,766	£149,081
Operating Expenses							
Metering and monitoring	£50	£51	£53	£54	£55	£1,014	£1,277
Insurance	£240	£246	£252	£258	£265	£4,869	£6,131
Maintenance	£492	£504	£517	£530	£543	£9,983	£12,570
Administration expenses							
Coop administration/accounts cost	£600	£615	£630	£646	£662	£12,173	£15,327
Inverter sinking fund	£295	£303	£310	£318	£326	£5,990	£7,542
Depreciation	£2,460	£2,460	£2,460	£2,460	£2,460	£36,905	£49,206
Total operating and admin costs	£4,138	£4,180	£4,223	£4,267	£4,312	£70,934	£92,052
Profit before tax and interest	£2,485	£2,641	£2,666	£2,690	£2,715	£43,832	£57,029
Cashflow projections							
Cash In							
Ordinary share issue	£49,206						
Income from power generated	£6,623	£6,821	£6,888	£6,957	£7,027	£114,766	£149,081
Total cash income	£55,829	£6,821	£6,888	£6,957	£7,027	£114,766	£198,288
Cash Out							
Capital equipment	£44,733						
Project Development fee	£4,473						
	£49,206						
Operational and admin expenses	£1,677	£1,719	£1,762	£1,806	£1,851	£34,030	£42,846
Annual interest assumption	0	5%	5%	5%	5%	5%	5%
Interest on shares	£0	£2,460	£2,337	£2,214	£2,091	£16,607	£25,710
Repayment of shares	£0	£2,460	£2,460	£2,460	£2,460	£39,365	£49,206
Total cash out	£50,883	£6,640	£6,560	£6,481	£6,403	£90,001	£117,762
Cash flow surplus after interest and repayment of shares	£473	£181	£328	£476	£624	£24,765	£80,526



	Year						
	1	2	3	4	5	Years 6-20	Total
Energy produced (kWh)	90000	89100	88209	87327	86454	1197748	1638838
Income from power generation	<u>£9,711</u>	<u>£10,101</u>	<u>£10,250</u>	<u>£10,401</u>	<u>£10,554</u>	<u>£178,343</u>	<u>£229,359</u>
Operating Expenses							
Metering and monitoring	£25	£26	£26	£27	£28	£507	£639
Insurance	£1,350	£1,384	£1,418	£1,454	£1,490	£27,389	£34,485
Maintenance	£358	£366	£376	£385	£395	£7,253	£9,132
Administration expenses							
Coop administration/accounts cost	£500	£513	£525	£538	£552	£10,144	£12,772
Inverter sinking fund	£300	£308	£315	£323	£331	£6,086	£7,663
Depreciation	£3,575	£3,575	£3,575	£3,575	£3,575	£53,625	£71,500
Total operating and admin costs	<u>£6,108</u>	<u>£6,171</u>	<u>£6,236</u>	<u>£6,302</u>	<u>£6,370</u>	<u>£105,005</u>	<u>£136,192</u>
Profit before tax and interest	<u>£3,604</u>	<u>£3,930</u>	<u>£4,014</u>	<u>£4,099</u>	<u>£4,184</u>	<u>£73,338</u>	<u>£93,167</u>
Cashflow projections							
Cash In							
Ordinary share issue	£71,500						
Income from power generated	£9,711	£10,101	£10,250	£10,401	£10,554	£178,343	£229,359
Total cash income	<u>£81,211</u>	<u>£10,101</u>	<u>£10,250</u>	<u>£10,401</u>	<u>£10,554</u>	<u>£178,343</u>	<u>£300,859</u>
Cash Out							
Capital equipment (ex VAT)	£71,500						
Operational and admin expenses	£2,533	£2,596	£2,661	£2,727	£2,795	£51,380	£64,692
Annual interest assumption	0	5%	5%	5%	5%	5%	5%
Interest on shares	£0	£3,575	£3,396	£3,218	£3,039	£24,131	£37,359
Repayment of shares	£0	£3,575	£3,575	£3,575	£3,575	£57,200	£71,500
Total cash out	<u>£74,033</u>	<u>£9,746</u>	<u>£9,632</u>	<u>£9,520</u>	<u>£9,409</u>	<u>£129,137</u>	<u>£241,476</u>
Net cash flow (surplus)	£7,179	£355	£618	£881	£1,145	£49,206	£59,383