

"How the benefits of Solar PV could be captured to the benefit of Highcross - Lakeside & Climate Change in the Solent area (this in terms of business, energy & financial benefits)"

with

No Cost Outlay

PSECC - Carbon Dioxide Emission Reduction (CDER)



PSECC – Portsmouth Sustainable Energy & Climate Change Centre

Facilitators for change



CO₂ savings - 6.81 million tonnes over 25 years possible

Future Solent



Resource Ownership concept could be a mechanism to be taken forward by Highcross Lakeside CO₂ savings - 6.81 million tonnes over 25 years – no cost outlay

Priority 1: New Low Carbon & Green Technology

Priority 3: Generation of Secure, Renewable & Low Carbon Energy in the Solent

Lakeside - could lead the way in Low Carbon

Gateway to Portsmouth



What are the possibilities of Renewable Energy Solar PV for Lakeside





No Cost Outlay



Lakeside - already an extremely well managed site can be enhanced by Solar PV

Energy Saving & Resource Ownership Loan (ESRO) – pays for itself from FIT & enables revenues to be gained by Lakeside.

CO2 savings - 6.81 million tonnes over 25 years

PSECC – Stages so far in Solar PV at Highcross Lakeside proposal

- PSECC Initial enquiry letter sent approached Ian Cox & Nick Turner 2nd December 2012
- Pre-feasibility study sent for consideration to lan Cox & Nick Turner
 3rd January
 2013
- Feasibility study sent to lan Cox
 7 th February 2013
- Tender proposal sent to lan Cox listing four individual
 Solar company quotes 11th February 2013
- 1st site Survey of Lakeside roof for Solar PV Solar Advanced Systems 12th February 2013
- 2nd site Survey of Lakeside roof for Solar PV
 20th February 2013
- Final submission of two quotes for Solar PV to Lakeside
 21st & 27th Feb' 2013
- Presentation Nick Turner Director & Ian Cox Lakeside Facilities manager 13th March 2013
- Try and install before the end of April to minimise any changes for higher FIT, revenue & profits

Preferred bid - Solar Advanced Systems Ltd

Solar Advanced Systems











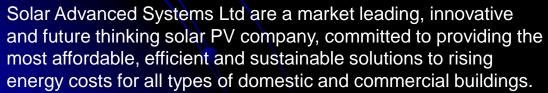






















Ian Cox Facilities Manager led Survey team



Atrium Flat roof

Corrugated raised fixing points for PV panels







Switch gear and controls in roof top Air Conditioning buildings



Plenty of room for Solar PV Inverters to be mounted

Cabling can use existing routes







The proposals we are putting forward means leaving lower sub-mains as they are but changing the 4 sub-mains in the plant rooms on the roof and have been costed in.

Tender selected Solar Advanced Systems Ltd proposal

250 KW Solar PV Atrium and Air Conditioning roof areas

Lakeside Solar PV installation

PSECC have already arranged a Solar PV tender Best competitive Solar PV pricing and loan







250 KW system

Seven year Energy Savings & Resource Ownership Loan

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Quote Number:	SOLD	OOM07241c	Payl	back time		١.	1		Jar	advanced	
Estimated yield (SAP)		205400 Kwh**	5.3	yrs		1	Fred	30		advanced systems	
Actual Estimated A	Annual Yield:	275268 Kwh***	Profit	£2,525,8	81.30						
Co	ost of Install:	£376,992.00	20.9%	ROI		Inclusive of Finance interest					
Year		Feed in @ £0.1100	Cost of E	lectricity Saved	£0.120	•	Export	Rate *	Annual	Annual Total	Total
									% return		
1		£30,279.48	£3	33,032.16	£0.1200	П	0.0000	£0.0450	16.8%	£63,311.64	£63,311.64
2		£31,187.86	£3	35,344.41	£0.1284		0.0000	£0.0466	17.6%	£66,532.28	£129,843.92
3		£32,123.50	£3	37,818.52	£0.1374		0.0000	£0.0482	18.6%	£69,942.02	£199,785.94
4		£33,087.21		10,465.82	£0.1470		0.0000	£0.0499	19.5%	£73,553.02	£273,338.96
5		£34,079.82		13,298.42	£0.1573		0.0000	£0.0516	20.5%	£77,378.25	£350,717.20
6		£35,102.22		16,329.31	£0.1683		0.0000	£0.0534	21.6%	£81,431.53	£432,148.73
7		£36,155.28		19,572.37	£0.1801		0.0000	£0.0553	22.7%	£85,727.65	£517,876.38
8		£37,239.94		3,042.43	£0.1927		0.0000	£0.0573	23.9%	£90,282.37	£608,158.75
9		£38,357.14		6,755.40	£0.2062		0.0000	£0.0593	25.2%	£95,112.54	£703,271.29
10		£39,507.85		0,728.28	£0.2206		0.0000	£0.0613	26.6%	£100,236.13	£803,507.42
11		£40,693.09		4,979.26	£0.2361		0.0000	£0.0635	28.0%	£105,672.35	£909,179.77
12		£41,913.88		9,527.81	£0.2526		0.0000	£0.0657	29.6%	£111,441.69	£1,020,621.46
13		£43,171.30	£7	4,394.75	£0.2703		0.0000	£0.0680	31.2%	£117,566.05	£1,138,187.51
14		£44,466.44		79,602.39	£0.2892		0.0000	£0.0704	32.9%	£124,068.82	£1,262,256.33
15		£45,800.43		35,174.55	£0.3094		0.0000	£0.0728	34.7%	£130,974.98	£1,393,231.32
16		£47,174.44	£9	1,136.77	£0.3311		0.0000	£0.0754	36.7%	£138,311.21	£1,531,542.53
17		£48,589.68	£9	7,516.35	£0.3543		0.0000	£0.0780	38.8%	£146,106.02	£1,677,648.55
18		£50,047.37	£10	04,342.49	£0.3791		0.0000	£0.0808	41.0%	£154,389.86	£1,832,038.41
19		£51,548.79	£1:	11,646.46	£0.4056		0.0000	£0.0836	43.3%	£163,195.25	£1,995,233.66
20		£53,095.25		19,461.72	£0.4340		0.0000	£0.0865	45.8%	£172,556.97	£2,167,790.63
21		£0.00	£1:	27,824.04	£0.4644		0.0000	£0.0895	33.9%	£127,824.04	£2,295,614.66
22		£0.00	£1:	36,771.72	£0.4969		0.0000	£0.0927	36.3%	£136,771.72	£2,432,386.38
23		£0.00	£14	46,345.74	£0.5316		0.0000	£0.0959	38.8%	£146,345.74	£2,578,732.12
24		£0.00		56,589.94	£0.5689		0.0000	£0.0993	41.5%	£156,589.94	£2,735,322.06
25		£0.00	£1	67,551.24	£0.6087		0.0000	£0.1027	44.4%	£167,551.24	£2,902,873.30

* Based on predic	ted energy prices	rises of 7% and	RPI inflation of 3.0%

ı	% of consumed Electricity:	100%
ı	DNO assumed export:	0%

^{**} Predicted yield outputs based on SAP 2009. Yields may be higher

^{***} Predicted yield outputs on PV sol data. Yields may be higher

Seven year Energy Savings & Resource Ownership Loan

250kwp Solar PV system Lease Purchase Model

	Energy Price Rise 7%	RPI increase 3%		System Size 250kwp				
Yr	Electricity Saving	FITS Income	Yr	Benefit Per Annum	(£) Annual Repayments (£)	SAS ongoing Rental	Gross Profit per Annum (£)	Cumulative Profit (£)
1	£33,032.16	£30,279.48	1	63,311.64	53,856.00	0.00	9,455.64	9,455.64
2	£35,344.41	£31,187.86	2	66,532.28	53,856.00	0.00	12,676.28	22,131.92
3	£37,818.52	£32,123.50	3	69,942.02	53,856.00	0.00	16,086.02	38,217.94
4	£40,465.82	£33,087.21	4	73,553.02	53,856.00	0.00	19,697.02	57,914.96
5	£43,298.42	£34,079.82	5	77,378.25	53,856.00	0.00	23,522.25	81,437.20
6	£46,329.31	£35,102.22	6	81,431.53	53,856.00	0.00	27,575.53	109,012.73
7	£49,572.37	£36,155.28	7	85,727.65	53,856.00	0.00	31,871.65	140,884.38
8	£53,042.43	£37,239.94	8	90,282.37	0.00	0.00	90,282.37	231,166.75
9	£56,755.40	£38,357.14	9	95,112.54	0.00	0.00	95,112.54	326,279.29
10	£60,728.28	£39,507.85	10	100,236.13	0.00	0.00	100,236.13	426,515.42
11	£64,979.26	£40,693.09	11	105,672.35	0.00	0.00	105,672.35	532,187.77
12	£69,527.81	£41,913.88	12	111,441.69	0.00	0.00	111,441.69	643,629.46
13	£74,394.75	£43,171.30	13	117,566.05	0.00	0.00	117,566.05	761,195.51
14	£79,602.39	£44,466.44	14	124,068.82	0.00	0.00	124,068.82	885,264.33
15	£85,174.55	£45,800.43	15	130,974.98	0.00	0.00	130,974.98	1,016,239.32
16	£91,136.77	£47,174.44	16	138,311.21	0.00	0.00	138,311.21	1,154,550.53
17	£97,516.35	£48,589.68	17	146,106.02	0.00	0.00	146,106.02	1,300,656.55
18	£104,342.49	£50,047.37	18	154,389.86	0.00	0.00	154,389.86	1,455,046.41
19	£111,646.46	£51,548.79	19	163,195.25	0.00	0.00	163,195.25	1,618,241.66
20	£119,461.72	£53,095.25	20	172,556.97	0.00	0.00	172,556.97	1,790,798.63
21	£127,824.04	£0.00	21	127,824.04	0.00	0.00	127,824.04	1,918,622.66
22	£136,771.72	£0.00	22	136,771.72	0.00	0.00	136,771.72	2,055,394.38
23	£146,345.74	£0.00	23	146,345.74	0.00	0.00	146,345.74	2,201,740.12
24	£156,589.94	£0.00	24	156,589.94	0.00	0.00	156,589.94	2,358,330.06
25	£167,551.24	£0.00	25	167,551.24	0.00	0.00	167,551.24	2,525,881.30

250 KW system

% of consumed Electricity:

DNO assumed export:

100%

0%

Highcross direct purchase scenario

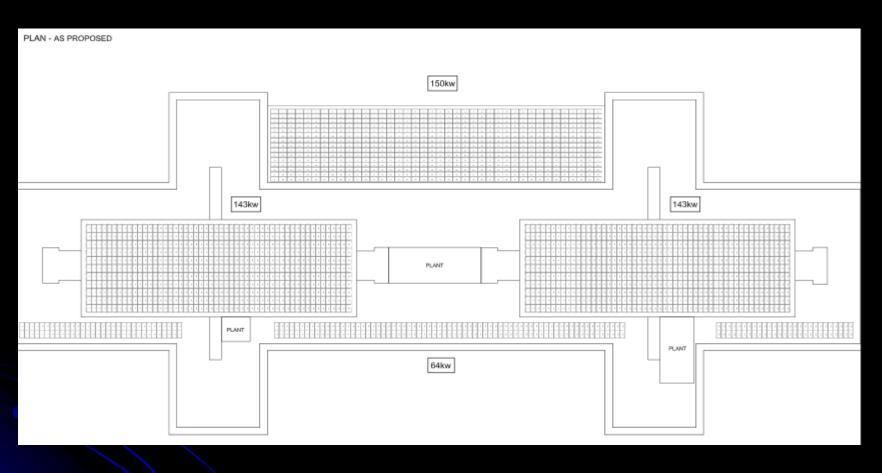
Quote Number:	SOLD	OM07241c	Payl	oack time			Jana Barre		Jor	advanced		
Estimated yield (SAP))	205400 Kwh**	4.4	yrs		1	Pygan	50	JEI	advanced systems		
Actual Estimated	Annual Yield:	275268 Kwh***	Profit	£2,594,8	74.30							
C	ost of Install:	£307,999.00	24.4%	ROI		100% consumed electricity from Solar PV system						
Year		Feed in @ £0.1100 *		lectricity Saved	£0.120	*	Export	Rate *	Annual	Annual Total	Total	
				, , , , , , , , , , , , , , , , , , , ,					% return			
1	l	£30,279,48	f3	3,032.16	£0.1200	1 [0.0000	£0.0450	20.6%	£63,311.64	£63,311.64	
2		£31,187.86		35,344.41	£0.1284	╁┝	0.0000	£0.0466	21.6%	£66,532.28	£129,843.92	
3		£32,123.50		37,818.52	£0.1374	┧┝	0.0000	£0.0482	22.7%	£69,942.02	£199,785.94	
4		£33,087.21		0,465.82	£0.1470	┧┝	0.0000	£0.0499	23.9%	£73,553.02	£273,338.96	
5		£34,079.82		13,298.42	£0.1573	1	0.0000	£0.0516	25.1%	£77,378.25	£350,717.20	
6		£35,102.22	£4	6,329.31	£0.1683	1	0.0000	£0.0534	26.4%	£81,431.53	£432,148.73	
7		£36,155.28	£4	9,572.37	£0.1801	1	0.0000	£0.0553	27.8%	£85,727.65	£517,876.38	
8		£37,239.94	£5	3,042.43	£0.1927	1	0.0000	£0.0573	29.3%	£90,282.37	£608,158.75	
9		£38,357.14	£5	6,755.40	£0.2062	1	0.0000	£0.0593	30.9%	£95,112.54	£703,271.29	
10		£39,507.85	£6	0,728.28	£0.2206	1	0.0000	£0.0613	32.5%	£100,236.13	£803,507.42	
11		£40,693.09	£€	4,979.26	£0.2361	1	0.0000	£0.0635	34.3%	£105,672.35	£909,179.77	
12		£41,913.88	£6	9,527.81	£0.2526	1	0.0000	£0.0657	36.2%	£111,441.69	£1,020,621.46	
13		£43,171.30	£7	4,394.75	£0.2703	1 [0.0000	£0.0680	38.2%	£117,566.05	£1,138,187.51	
14		£44,466.44	£7	9,602.39	£0.2892	1 Г	0.0000	£0.0704	40.3%	£124,068.82	£1,262,256.33	
15		£45,800.43	£8	5,174.55	£0.3094	1 Г	0.0000	£0.0728	42.5%	£130,974.98	£1,393,231.32	
16		£47,174.44	£9	1,136.77	£0.3311	1 Г	0.0000	£0.0754	44.9%	£138,311.21	£1,531,542.53	
17		£48,589.68	£9	7,516.35	£0.3543	1 Г	0.0000	£0.0780	47.4%	£146,106.02	£1,677,648.55	
18		£50,047.37	£1	04,342.49	£0.3791	1 Г	0.0000	£0.0808	50.1%	£154,389.86	£1,832,038.41	
19		£51,548.79	£1	11,646.46	£0.4056	1 [0.0000	£0.0836	53.0%	£163,195.25	£1,995,233.66	
20		£53,095.25	£1	19,461.72	£0.4340	lГ	0.0000	£0.0865	56.0%	£172,556.97	£2,167,790.63	
21		£0.00	£1:	27,824.04	£0.4644		0.0000	£0.0895	41.5%	£127,824.04	£2,295,614.66	
22		£0.00	£1:	36,771.72	£0.4969		0.0000	£0.0927	44.4%	£136,771.72	£2,432,386.38	
23		£0.00	£1-	46,345.74	£0.5316	lΓ	0.0000	£0.0959	47.5%	£146,345.74	£2,578,732.12	
24		£0.00	£1	56,589.94	£0.5689	Г	0.0000	£0.0993	50.8%	£156,589.94	£2,735,322.06	
25		£0.00	£1	67,551.24	£0.6087	ΙГ	0.0000	£0.1027	54.4%	£167,551.24	£2,902,873,30	

* Based on pres	dicted energy prices	rises of 7% and	RPI inflation of 3.0%
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^{**} Predicted yield outputs based on SAP 2009. Yields may be higher

^{***} Predicted yield outputs on PV sol data. Yields may be higher

500 KW Solar PV proposal





500 KW system

% of consumed Electricity:

DNO assumed export:

100%

0%

Seven year Energy Savings & Resource Ownership Loan

Quote Number:	SOLD	OM07241d	Payk	oack time			James and the same		Jar	advanced	
Estimated yield (SAP))	390000 Kwh**	6.1	yrs		1	Fryak	50		advancec systems	
Actual Estimated	Annual Yield:	514396 Kwh***	Profit	£4,192,8	49.17						
С	ost of Install:	£692,720.00	18.8%	ROI				Inclusiv	e of Fin	ance interes	st
Year		Feed in @ £0.0710	Cost of E	lectricity Saved	£0.120	*	Export	Rate *	Annual	Annual Total	Total
						_			% return		
1	1	£36,522.12	£6	1,727.52	£0.1200	Г	0.0000	£0.0450	14.2%	£98,249.64	£98,249.64
2	1	£37,617.78	£6	6,048.45	£0.1284		0.0000	£0.0466	15.0%	£103,666.23	£201,915.86
3	1	£38,746.31	£7	0,671.84	£0.1374		0.0000	£0.0482	15.8%	£109,418.15	£311,334.01
4		£39,908.70	£7	5,618.87	£0.1470		0.0000	£0.0499	16.7%	£115,527.57	£426,861.58
5		£41,105.96	£8	0,912.19	£0.1573		0.0000	£0.0516	17.6%	£122,018.15	£548,879.73
6		£42,339.14	£8	6,576.04	£0.1683		0.0000	£0.0534	18.6%	£128,915.18	£677,794.91
7		£43,609.32	£9	2,636.36	£0.1801		0.0000	£0.0553	19.7%	£136,245.68	£814,040.59
8		£44,917.60	£9	9,120.91	£0.1927		0.0000	£0.0573	20.8%	£144,038.50	£958,079.10
9		£46,265.12	£10	06,059.37	£0.2062		0.0000	£0.0593	22.0%	£152,324.50	£1,110,403.59
10		£47,653.08	£1:	13,483.53	£0.2206		0.0000	£0.0613	23.3%	£161,136.61	£1,271,540.20
11		£49,082.67	£12	21,427.37	£0.2361		0.0000	£0.0635	24.6%	£170,510.04	£1,442,050.24
12		£50,555.15	£12	29,927.29	£0.2526		0.0000	£0.0657	26.1%	£180,482.44	£1,622,532.68
13		£52,071.80	£13	39,022.20	£0.2703		0.0000	£0.0680	27.6%	£191,094.01	£1,813,626.69
14		£53,633.96	£14	48,753.76	£0.2892		0.0000	£0.0704	29.2%	£202,387.71	£2,016,014.40
15		£55,242.98	£15	59,166.52	£0.3094		0.0000	£0.0728	31.0%	£214,409.50	£2,230,423.90
16		£56,900.27	£17	70,308.17	£0.3311		0.0000	£0.0754	32.8%	£227,208.44	£2,457,632.34
17		£58,607.27	£18	82,229.75	£0.3543		0.0000	£0.0780	34.8%	£240,837.02	£2,698,469.36
18		£60,365.49	£19	94,985.83	£0.3791		0.0000	£0.0808	36.9%	£255,351.32	£2,953,820.68
19		£62,176.46	£20	08,634.84	£0.4056		0.0000	£0.0836	39.1%	£270,811.29	£3,224,631.98
20		£64,041.75	£22	23,239.28	£0.4340		0.0000	£0.0865	41.5%	£287,281.03	£3,511,913.01
21		£0.00	£2:	38,866.03	£0.4644		0.0000	£0.0895	34.5%	£238,866.03	£3,750,779.03
22		£0.00	£25	55,586.65	£0.4969		0.0000	£0.0927	36.9%	£255,586.65	£4,006,365.68
23		£0.00	£2	73,477.71	£0.5316		0.0000	£0.0959	39.5%	£273,477.71	£4,279,843.39
24		£0.00	£29	92,621.15	£0.5689		0.0000	£0.0993	42.2%	£292,621.15	£4,572,464.54
25		£0.00	£3:	13,104.63	£0.6087		0.0000	£0.1027	45.2%	£313,104.63	£4,885,569.17

^{*} Based on predicted energy prices rises of 7% and RPI inflation of 3.0%

^{**} Predicted yield outputs based on SAP 2009. Yields may be higher

^{***} Predicted yield outputs on PV sol data. Yields may be higher

Seven year Energy Savings & Resource Ownership Loan

500kwp Solar PV system Lease Purchase Model

	Energy Price Rise 7%	RPI increase 3%		System Size 500kwp				
Yr	Electricity Saving	FITS Income	Yr	Benefit Per Annum (£) Annual Repayments (£)	SAS ongoing Rental	Gross Profit per Annum (£)	Cumulative Profit (£)
1	£61,727.52	£36,522.12	1	98,249.64	98,960.00	0.00	-710.36	-710.36
2	£66,048.45	£37,617.78	2	103,666.23	98,960.00	0.00	4,706.23	3,995.87
3	£70,671.84	£38,746.32	3	109,418.15	98,960.00	0.00	10,458.15	14,454.02
4	£75,618.87	£39,908.71	4	115,527.57	98,960.00	0.00	16,567.57	31,021.60
5	£80,912.19	£41,105.97	5	122,018.15	98,960.00	0.00	23,058.15	54,079.75
6	£86,576.04	£42,339.15	6	128,915.19	98,960.00	0.00	29,955.19	84,034.94
7	£92,636.36	£43,609.32	7	136,245.68	98,960.00	0.00	37,285.68	121,320.62
8	£99,120.91	£44,917.60	8	144,038.51	0.00	0.00	144,038.51	265,359.13
9	£106,059.37	£46,265.13	9	152,324.50	0.00	0.00	152,324.50	417,683.63
10	£113,483.53	£47,653.08	10	161,136.61	0.00	0.00	161,136.61	578,820.24
11	£121,427.37	£49,082.68	11	170,510.05	0.00	0.00	170,510.05	749,330.29
12	£129,927.29	£50,555.16	12	180,482.45	0.00	0.00	180,482.45	929,812.74
13	£139,022.20	£52,071.81	13	191,094.01	0.00	0.00	191,094.01	1,120,906.75
14	£148,753.76	£53,633.96	14	202,387.72	0.00	0.00	202,387.72	1,323,294.47
15	£159,166.52	£55,242.98	15	214,409.50	0.00	0.00	214,409.50	1,537,703.97
16	£170,308.17	£56,900.27	16	227,208.45	0.00	0.00	227,208.45	1,764,912.42
17	£182,229.75	£58,607.28	17	240,837.03	0.00	0.00	240,837.03	2,005,749.45
18	£194,985.83	£60,365.50	18	255,351.33	0.00	0.00	255,351.33	2,261,100.78
19	£208,634.84	£62,176.46	19	270,811.30	0.00	0.00	270,811.30	2,531,912.08
20	£223,239.28	£64,041.76	20	287,281.03	0.00	0.00	287,281.03	2,819,193.11
21	£238,866.03	£0.00	21	238,866.03	0.00	0.00	238,866.03	3,058,059.14
22	£255,586.65	£0.00	22	255,586.65	0.00	0.00	255,586.65	3,313,645.79
23	£273,477.71	£0.00	23	273,477.71	0.00	0.00	273,477.71	3,587,123.50
24	£292,621.15	£0.00	24	292,621.15	0.00	0.00	292,621.15	3,879,744.65
25	£313,104.63	£0.00	25	313,104.63	0.00	0.00	313,104.63	4,192,849.28

500 KW system Highcross direct purchase scenario

Quote Number:	SOLDO	OM07241d	Payl	back time			The same	500	lar	advanced systems	
Estimated yield (SAP)		390000 Kwh**	5.1	yrs		1	Frank	50		systems	
Actual Estimated Annua	ual Yield:	514396 Kwh***	Profit	£4,319,6	19.17		***				
Cost o	of Install:	£565,950.00	21.8% ROI				100	0% consume	d electricity	y from Solar PV s	ystem
Year	F	Feed in @ £0.0710	Cost of E	lectricity Saved	£0.120	*	Export	Rate *	Annual	Annual Total	Total
	_								% return		
1	Γ	£36,522.12	£€	51,727.52	£0.1200	Γ	0.0000	£0.0450	17.4%	£98,249.64	£98,249.64
2		£37,617.78	£€	66,048.45	£0.1284		0.0000	£0.0466	18.3%	£103,666.23	£201,915.86
3	Г	£38,746.31	£7	70,671.84	£0.1374		0.0000	£0.0482	19.3%	£109,418.15	£311,334.01
4	Г	£39,908.70	£7	75,618.87	£0.1470		0.0000	£0.0499	20.4%	£115,527.57	£426,861.58
5	Г	£41,105.96	£8	30,912.19	£0.1573		0.0000	£0.0516	21.6%	£122,018.15	£548,879.73
6	Г	£42,339.14	£8	36,576.04	£0.1683		0.0000	£0.0534	22.8%	£128,915.18	£677,794.91
7		£43,609.32	£9	92,636.36	£0.1801		0.0000	£0.0553	24.1%	£136,245.68	£814,040.59
8	Γ	£44,917.60	£9	99,120.91	£0.1927		0.0000	£0.0573	25.5%	£144,038.50	£958,079.10
9	Γ	£46,265.12	£10	06,059.37	£0.2062		0.0000	£0.0593	26.9%	£152,324.50	£1,110,403.59
10	Г	£47,653.08	£1	13,483.53	£0.2206		0.0000	£0.0613	28.5%	£161,136.61	£1,271,540.20
11	Г	£49,082.67	£1:	21,427.37	£0.2361		0.0000	£0.0635	30.1%	£170,510.04	£1,442,050.24
12	Г	£50,555.15	£1:	29,927.29	£0.2526	Г	0.0000	£0.0657	31.9%	£180,482.44	£1,622,532.68
13	Г	£52,071.80	£1:	39,022.20	£0.2703		0.0000	£0.0680	33.8%	£191,094.01	£1,813,626.69
14	Г	£53,633.96	£1/	48,753.76	£0.2892	Г	0.0000	£0.0704	35.8%	£202,387.71	£2,016,014.40
15	Г	£55,242.98	£15	59,166.52	£0.3094	Г	0.0000	£0.0728	37.9%	£214,409.50	£2,230,423.90
16	Г	£56,900.27		70,308.17	£0.3311		0.0000	£0.0754	40.1%	£227,208.44	£2,457,632.34
17	Γ	£58,607.27	£18	82,229.75	£0.3543		0.0000	£0.0780	42.6%	£240,837.02	£2,698,469.36
18	Г	£60,365.49	£19	94,985.83	£0.3791		0.0000	£0.0808	45.1%	£255,351.32	£2,953,820.68
19	Г	£62,176.46	£20	08,634.84	£0.4056		0.0000	£0.0836	47.9%	£270,811.29	£3,224,631.98
20	Г	£64,041.75	£2:	23,239.28	£0.4340		0.0000	£0.0865	50.8%	£287,281.03	£3,511,913.01
21	Γ	£0.00	£2	38,866.03	£0.4644		0.0000	£0.0895	42.2%	£238,866.03	£3,750,779.03
22	Г	£0.00	£25	55,586.65	£0.4969	Г	0.0000	£0.0927	45.2%	£255,586.65	£4,006,365.68
23	Г	£0.00	£2	73,477.71	£0.5316	Г	0.0000	£0.0959	48.3%	£273,477.71	£4,279,843.39
24	Г	£0.00	£29	92,621.15	£0.5689	Г	0.0000	£0.0993	51.7%	£292,621.15	£4,572,464.54
25		£0.00	£3:	13,104.63	£0.6087		0.0000	£0.1027	55.3%	£313,104.63	£4,885,569.17

% of consumed Electricity:	100%
DNO assumed export:	0%

^{*} Based on predicted energy prices rises of 7% and RPI inflation of 3.0%

CO₂ savings - 6.81 million tonnes

Lakeside Solar PV installation

PSECC have already arranged a Solar PV tender Best competitive Solar PV pricing and loan DNO could take upto 65 days as such the current FIT rate for 250 KW of 11p will change to 10.62p and for 500 KW will change from 7.1p to 6.85p

^{**} Predicted yield outputs based on SAP 2009. Yields may be higher

^{***} Predicted yield outputs on PV sol data. Yields may be higher

Other Solar PV System performance monitoring Data logging

el.	Curtury Clay	Installation Commission Bata	Bastoned convoluteld	Astroducted day date	For each of World has done	System performance % over months		
Site	System Size	Installation Commission Date	Designed annual yield	Actual yield to date	Expected Yield to date	supplied		
Ernest Doe Ringmer	46 kw	22nd June 2012	44973	26439	25280	104.58%		
Steyning Grammer School	21.5 kw	9th November 2012	20156	3423	3245	105.49%		
Ernest Doe Albourne	19 kw	6th July 2012	17881	10636	9855	107.92%		
Hollam Nurseries	26kw	2nd December 2011	22146	29192	24894	117.27%		
Ernest Doe North Walsham	50 kw	2nd July 2012	45973	24836	24796	100.16%		
Ernest Doe Bennington	30 kw	12th October 2012	25497	3506.1	4090	85.72%	Tree causing shading	remov
Speakman	80 kw	5th December 2011	75401	88562	84081	105.33%		
East Sussex Dairy Farm (harding)	250 kw	2nd November 2011	262893	315266	303623	103.83%		
Smiths	50 kw	11th November 2011	44682	57865	50708	114.11%		
Great Bainden Farm	35 kw	14th September 2011	32749	44562	40099	111.13%		
West Hall Farm	30 kw	15th November 2011	29279	36653	32670	112.19%		
Hoe Vally Community centre	30 kw	8th May 2011	28743	55772	48375	115.29%		
Coolham	500 kw	12th February 2011	521369	557745	527532	105.73%		
3 x 150kw Kent Egg farm (client N/A)	450 kw	12th May 2011	436589	794557	767489	103.53%		
						4.403.000/		
						1492.29%		
					Average yield achieved	106.59%		

Tender process & proposals have taken 14 weeks – any delay on installing will result in revenue losses

Highcross goes Low Carbon & leads the way

Other Highcross properties in the UK - S/E - potential for Solar PV











Kembrey Park – could be next for a Solar PV install before the end of April?



Each Highcross building could have Solar PV installed demonstrating Climate Change mitigation to others as well as revenue generation across portfolio of sixteen sites in Southern England & beyond – with PSECC.







