

(RHI) Cashflow Calculator Warm Air Blower Pod 40KWH

Boiler Size kWh	40	kW
Metered usage of Property -Tariff 1	52,560	kWh
Additional usage of Property -Tariff 2	-	kWh
Total kWh	52,560	

(1314 hrs p/a)

Cost of Project (£)	11,416
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Enter in value in green cell



WrightsBiomass services

RHI Rate (p/kWh) -Tier 1	4.18	kWh
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Additional RHI Rate (p/kWh) Tier 2	1.1	kWh
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Select Biomass Fuel	Fuel	Pence/kWh
	Wood Pellet	3.0

(click on green cell to select from list)

Select Existing Fuel	Code	p/kWh	CO ₂ saving per kWh (Kg)
	LPG	7.2	0.310

(click on green cell to select from list)

Biomass Fuel Inflation	Wood Pellet	3%
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(click on green cell to select from list)

Fossil Fuel Inflation	LPG	7%
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(click on green cell to select from list)

Cost of borrowing/capital	1%	(discounted cash flow)
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(click on green cell to select from list)

RHI Inflation (index linked)	3%
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(click on green cell to select from list)

Summary of Results	Payback Period (yrs)	3	Net Project Cashflow	159,599
			Discounted Cash Flow	139,730
			Estimated CO₂ saving per annum in Tonnes	16.3

Cashflow calculations

Year	RHI £	Fossil Fuel Cost £	Biomass Cost £	Net Fuel Saving £	Annual Gain £	Net Cashflow Non disc'd £	Discounted Cashflow 1% £	Net Disc Cashflow	Payback Index
0	-	-	-	-	-	- 11,416	-	- 11,416	0
1	2,197	3,765	1,577	2,188	4,385	- 7,031	4,342	- 7,074	0
2	2,263	4,029	1,624	2,404	4,667	- 2,363	4,575	- 2,499	0
3	2,331	4,311	1,673	2,638	4,969	2,605	4,822	2,324	1
4	2,401	4,612	1,723	2,889	5,290	7,895	5,084	7,407	1
5	2,473	4,935	1,775	3,161	5,633	13,529	5,360	12,767	1
6	2,547	5,281	1,828	3,453	6,000	19,528	5,652	18,419	1
7	2,623	5,650	1,883	3,768	6,391	25,919	5,961	24,380	1
8	2,702	6,046	1,939	4,107	6,809	32,728	6,288	30,668	1
9	2,783	6,469	1,997	4,472	7,255	39,982	6,633	37,301	1
10	2,867	6,922	2,057	4,865	7,731	47,714	6,999	44,300	1
11	2,953	7,406	2,119	5,287	8,240	55,953	7,386	51,685	1
12	3,041	7,925	2,183	5,742	8,783	64,737	7,795	59,480	1
13	3,132	8,480	2,248	6,231	9,364	74,101	8,228	67,708	1
14	3,226	9,073	2,316	6,758	9,984	84,085	8,686	76,394	1
15	3,323	9,708	2,385	7,323	10,646	94,731	9,170	85,564	1
16	3,423	10,388	2,457	7,931	11,354	106,085	9,683	95,247	1
17	3,526	11,115	2,530	8,585	12,110	118,195	10,226	105,473	1
18	3,631	11,893	2,606	9,287	12,918	131,114	10,800	116,272	1
19	3,740	12,726	2,684	10,041	13,781	144,895	11,407	127,680	1
20	3,852	13,616	2,765	10,851	14,704	159,599	12,051	139,730	1
Total	59,034	154,350	42,369	111,981	171,015				0

Loan Finance		
Years	8	
Annual Int %	6.0%	
12.00% is the APR		
Annual Loan Cost £	Cum Net Cashflow Non disc'd £	
1	1,800	2,585
2	1,800	5,452
3	1,800	8,620
4	1,800	12,110
5	1,800	15,943
6	1,800	20,143
7	1,800	24,733
8	1,800	29,742
9	-	36,996
10	-	44,727
		52,967
		61,751
		71,114
		81,098
		91,745
		103,099
		115,209
		128,127
		141,909
		156,613
14,402	156,613	

The performance of Microgeneration Solid Biofuel Heating Systems is impossible to predict with certainty due to the variation of the climate and its subsequent effect on both heat supply and demand. This estimate is based upon the best available information but is given as a guidance only and should not be considered as a guarantee. The RHI calculator is intended to give a 'broad brush' estimation of the