

REPLACEMENT OF ELECTRIC HOB WITH GAS HOB: FINANCIAL FEASIBILITY

(Gas hob supplied and installed by third party of client's choice)

Project cost estimate	Price (excl. VAT)
Gas hob	R 6,000
Installation	R 4,000
Gas cylinder (48kg)	R 1,120
Gas cylinder deposit	R 500
Cylinder cage	R 2,000
Total:	R 13,620

Feasibility analysis by:



One Green Planet (Pty) Ltd
Reg. no. 2011/121874/07

Office (VOX): (087) 808 6609
Cel 1: (082) 904 1185
Cel 2: (082) 825 4637

Consumption: Gas	
Filling frequency	12 months
	1 years
Gas cylinder (48kg)	R 1,120
Cost:	R 1,120 /year

Consumption: Electricity	
Duration	40 minutes
	2 times per day
Power (electric)	9 kW
Energy (electric)	12 kWh/day
Tariff (electricity) (excl. VAT)	R 1.95 /kWh
Cost:	R 725 /month
	R 8,705 /year

FINANCIAL ANALYSIS

CPIX	7%	
Maintenance	1.0%	
Electricity tariff increase (EPIX)	8%	
Gas price increase (GPIX)	8%	
Finance method	Cash	
Loan rate	N/A	10%
Loan period	N/A	20 years

(annual, fixed)

Year	Payment	Loan	Maintenance	Electricity Savings	Net Cash Flow	Cumulative cash flow	IRR	NPV	ROI	%interest
0	R -13,620.00				R -13,620.00	R -13,620.00				
1		R -	R -136	R 7,585	R 7,448.60	R -6,171.40				
2		R -	R -146	R 8,192	R 8,045.85	R 1,874.45	9%	R 368.87	3%	0.0%
3		R -	R -156	R 8,847	R 8,690.98	R 10,565.43	34%	R 7,463.29	55%	0.0%
4		R -	R -167	R 9,555	R 9,387.81	R 19,953.24	47%	R 14,625.21	107%	1.8%
5		R -	R -179	R 10,319	R 10,140.51	R 30,093.74	53%	R 21,855.25	160%	9.9%
6		R -	R -191	R 11,145	R 10,953.53	R 41,047.28	57%	R 29,154.05	214%	13.5%
7		R -	R -204	R 12,036	R 11,831.72	R 52,879.00	59%	R 36,522.25	268%	15.1%
8		R -	R -219	R 12,999	R 12,780.31	R 65,659.31	60%	R 43,960.51	323%	15.8%
9		R -	R -234	R 14,039	R 13,804.92	R 79,464.23	61%	R 51,469.47	378%	15.9%
10		R -	R -250	R 15,162	R 14,911.65	R 94,375.88	62%	R 59,049.80	434%	15.8%
11		R -	R -268	R 16,375	R 16,107.09	R 110,482.97	62%	R 66,702.16	490%	15.5%
12		R -	R -287	R 17,685	R 17,398.33	R 127,881.30	62%	R 74,427.23	546%	15.2%
13		R -	R -307	R 19,100	R 18,793.07	R 146,674.37	62%	R 82,225.68	604%	14.8%
14		R -	R -328	R 20,628	R 20,299.58	R 166,973.95	63%	R 90,098.21	662%	14.4%
15		R -	R -351	R 22,278	R 21,926.83	R 188,900.78	63%	R 98,045.50	720%	14.1%
16		R -	R -376	R 24,060	R 23,684.49	R 212,585.27	63%	R 106,068.26	779%	13.7%
17		R -	R -402	R 25,985	R 25,583.01	R 238,168.27	63%	R 114,167.18	838%	13.3%
18		R -	R -430	R 28,064	R 27,633.67	R 265,801.94	63%	R 122,342.99	898%	13.0%
19		R -	R -460	R 30,309	R 29,848.66	R 295,650.60	63%	R 130,596.39	959%	12.6%
20		R -	R -493	R 32,734	R 32,241.16	R 327,891.76	63%	R 138,928.12	1020%	12.3%
21		R -	R -527	R 35,352	R 34,825.38	R 362,717.14	63%	R 147,338.90	1082%	12.0%
22		R -	R -564	R 38,181	R 37,616.68	R 400,333.81	63%	R 155,829.48	1144%	11.7%
23		R -	R -603	R 41,235	R 40,631.65	R 440,965.47	63%	R 164,400.60	1207%	11.4%
24		R -	R -646	R 44,534	R 43,888.22	R 484,853.68	63%	R 173,053.02	1271%	11.2%
25		R -	R -691	R 48,097	R 47,405.73	R 532,259.41	63%	R 181,787.48	1335%	10.9%