HA4 1AS



Best Electrical Ltd 24 High St Bedford

Environmental Assumptions Environmental Constants

Region: Thames
Property: House Semi Detached
Degree Days: 2033 (Days)
External Temp: -1.8 (Degrees)
Occupants: 4 (Full and Part time)

Heat Load %: 100

Electricity Tariff: 10 Hour Tariff 8.18 p/Kwh

Existing Fuel Tariff: 0 p/Kwh

Heat Loss Calculation Software: Complete Picture - SAP MCS Calculator 4.2 Report Date 16:56:29 24/04/2014

Rooms Heat Loss Table. Individual heat loss per room and available energy from heat emitter.

Room Description	Туре	Stars Rating	Temp. °C		Heat Emmiter Type & Dimensions
Living Room	Living Room	<mark>소소소소</mark> 쇼쇼		298	Fan Coil Unit H 0mm W 0mm
Bedroom	Bedroom	<b>全全全全</b>		297	Standard Radiator H 450mm W 750mm

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**Environmental Assumptions Environmental Constants** Thames

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Rooms Heat Loss Table. Individual heat loss per room and available energy from heat emitter.

System Details System Results Reference: Heat Pump Example Description: Fan Coil Dimplex Manufacturer: Dimplex Model: LA6MI Efficiency %: 270 Nominal Output Kw: 5.79 Central Heating Pump w: 105

Hot Water Input Details Hot Water Input Results

Occupants: Showers: Water Usage L/day: 136 Water Energy Kwh: 0 Immersion Energy Kwh: 0 Hot Water Cyl Volume L: 120

Cylinder Loss Kwh: 0 Distribution Loss Kwh: 0 Minimum Heat Up Power kw: 1.2

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**Environmental Assumptions** 

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**Environmental Constants** 

Thames

House Semi Detached 2033 (Days) -1.8 (Degrees) 4 (Full and Part time)

100

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0 p/Kwh

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## Renewable Heat Incentive Calculation

MIS 3005 Space Heating Details
Annual Heat Demand Kwh:
Heat Pump Heat Share %:
System Efficiency %:

MIS 3005 Space Heating Results
1401
100
270

Existing Heat Demand Kwh: Existing System Fuel Type: Existing System Efficiency %: Existing System Fuel Consumption:

0

MIS 3005 Water Heating Details MIS 3005 Water Heating Results

Annual Water Heat Demand Kwh
Water Heat Flow Temp
Heat Pump Water Energy Kwh:
Under Pump Annual Fuel Cost £:
Under Existing System (Immersion) Kwh:
Under Existing System Annual Fuel Cost £:

RHI Annual Energy Details
Annual Space Demand Kwh (EPC)

RHI Annual Energy Results
15000

Annual Water Demand Kwh (EPC)
Heat Pump Water Heating
Maximum Qualifying Heat From HP Kwh
RHI Seasonal Performance Factor

15000
Yes
17500
3

Maximum Qualifying Renewable Heat Kwh

11666.666666666

The performance of microgeneration heat pump systems is impossible to predict with certainty due to the variability 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 guidance only and should not be considered as a guarantee.

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Environmental Assumptions Region:

Region:
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Electricity Tariff:
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Environmental Constants Thames House Semi Detached 2033 (Days) -1.8 (Degrees) 4 (Full and Part time)

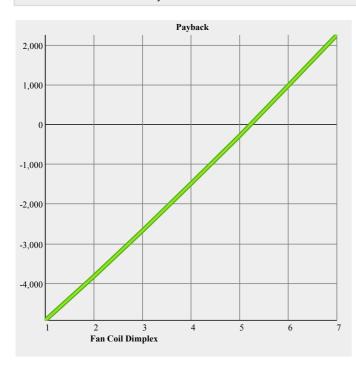
100

10 Hour Tariff 8.18 p/Kwh

0 p/Kwh

Heat Loss Calculation Software: Complete Picture - SAP MCS Calculator 4.2 Report Date 16:56:29 24/04/2014

## Renewable Heat Incentive Payback Calculation



Year	Space Output Kwh	Water Output Kwh	Feed In Tariff Payment p	Annual Fit Payment £	Maintenance Cost £	Annual Total £	Cumulative Total £				
1	15000	2500	7.30	1,278	206	1,078	-4,923				
2	15000	2500	7.52	1,316	212	1,110	-3,813				
3	15000	2500	7.74	1,355	219	1,143	-2,670				
4	15000	2500	7.98	1,396	225	1,177	-1,492				
5	15000	2500	8.22	1,438	232	1,213	-279				
6	15000	2500	8.46	1,481	239	1,249	970				
7	15000	2500	8.72	1,525	246	1,287	2,256				

RHI Payback Calculation Feed In Tariff Type Feed In Tariff Generation Tariff (p) Eligible Until Assessment Period System Cost Inflation RPI % Annual Maintenance £ Total Return £ Annual ROI %

EPC Band C or Higher April 2014 - June 2014 7.3 30/06/2014 7 6000 3 200 2256