Ted Smith
76 The Crescent
Royston Vazey

AB1 1EE

Environmental Assumptions	Environmental Constants
Region:	Thames
Orientation:	0 (Degrees from South)
Panel Pitch:	35 (Degrees)
Shading Factor:	None or very little (1= No Shade)
Collector Zero Loss:	0.7
Linear Loss (a1):	1.8
Second Order Loss (a2):	0.005

Best Electrical Ltd
24 High St
Bedford

Heat Loss Calculation Software: Complete Picture - SAP MCS Calculator 4.2 Report Date 18:23:48 23/04/2014

System Details	System Results
Reference:	Navitron
Description:	20 Tube 47mm Solar Panel SFB20-47
Module Area sqm:	4
Number of Panels:	1
Solar Radiation:	1096.25
Collector Performance:	2.58
Annual Output (Kwh):	3069.5

Hot Water Input Details	Hot Water Input Results
Occupants :	2
Water Usage L/day:	86
Water Energy:	1351.78
Hot Water Cyl Volume:	200
Cylinder Loss:	505
Solar Input (RHI) Kwh:	1216
Existing Heating System:	Gas, post 1998, condensing with automatic ignition
Fuel Saving Kwh:	367

Wind Load Details	Wind Load Results
Terrain:	Rural
Topography:	Topography is not significant
Dwelling Ridge Height (m):	5
Module Mounting:	Above pitched roof < 300 mm from the roof surface
Module Mounting Area:	1.25
Counter Batten Depth mm:	0
Module Fixing Strength (N):	450
Module Mounting Qty:	4
Wind Load Up (N):	-1447.875
Wind Load Down (N):	1113.75

The performance of solar heating systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year.This estimate is based upon the Government's Standard Assessment Procedure for energy rating of buildings SAP) and is given as guidance only. It should not be considered as a guarantee of performance.

The performance of solar heating systems can be influenced by the actions of the user, especially by timing back-up heating to finish before hot water use.The customer could achieve an energy benefit higher than the estimate by following operating instructions.

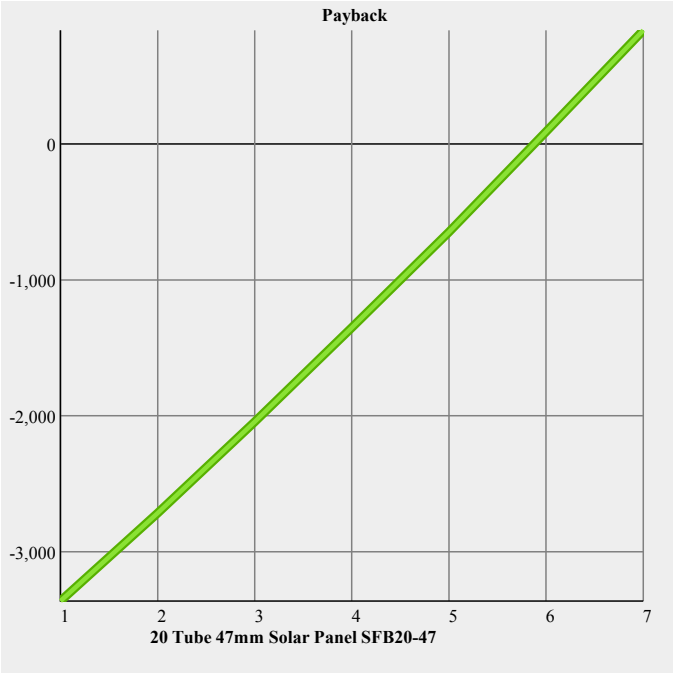
Ted Smith
76 The Crescent
Royston Vazey

AB1 1EE

Environmental Assumptions	
Region:	Thames
Orientation:	0 (Degrees from South)
Panel Pitch:	35 (Degrees)
Shading Factor:	None or very little (1= No Shade)
Collector Zero Loss:	0.7
Linear Loss (a1):	1.8
Second Order Loss (a2):	0.005

Best Electrical Ltd
24 High St
Bedford

Heat Loss Calculation Software: Complete Picture - SAP MCS Calculator 4.2 Report Date 18:23:48 23/04/2014



20 Tube 47mm Solar Panel SFB20-47

Year	Solar RHI Input Kwh	Fuel Saving Kwh	Feed In Tariff Payment p	Annual Fit Payment £	Maintenance Cost £	Annual Total £	Cumulative Total £
1	1216	367	19.20	589	93	631	-3,369
2	1216	367	19.78	607	95	650	-2,718
3	1216	367	20.37	625	98	670	-2,049
4	1216	367	20.98	644	101	690	-1,359
5	1216	367	21.61	663	104	711	-648
6	1216	367	22.26	683	107	732	84
7	1216	367	22.93	704	111	754	837

RHI Payback Calculation	
Feed In Tariff Type	EPC Band C or Higher
Feed In Tariff	April 2014 - June 2014
Generation Tariff (p)	19.2
Eligible Until	30/06/2014
Assessment Period	7
System Cost	4000
Inflation RPI %	3
Annual Maintenance £	90
Total Return £	837
Annual ROI %	5.5