

ENERGY REPORT

Dwelling Address	16, St. Johns Business Park, LUTTERWORTH, LE17 4HB
Report Date	24/04/2019

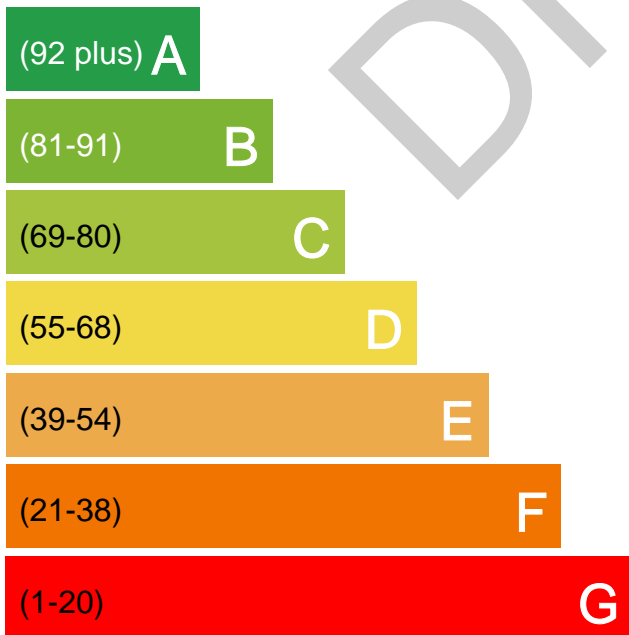
This Energy Report has been generated using the UK's National Calculation Methodology for existing dwellings, Reduced data Standard Assessment Procedure (RdSAP). This methodology is used to assess the energy efficiency of existing dwellings which is calculated based on a dwelling's heating, hot water and lighting usage.

This document is not an Energy Performance Certificate (EPC) as required by the Energy Performance of Buildings Regulations.

Energy Rating

The current energy rating represents the overall energy efficiency of the dwelling. The potential energy rating is the overall energy rating of the dwelling after all of the recommended measures have been installed. A higher score represents a more energy efficient dwelling with lower fuel bills.

Most energy efficient - lower running costs



Least energy efficient - higher running costs

CURRENT

POTENTIAL

E 51

C 80





Recommendations

The recommended measures provided below will help to improve the energy efficiency of the dwelling. To reach the dwelling's potential energy rating all of the recommended measures shown below would need to be installed. Having these measures installed individually, or in a different order, may change the result when compared with the cumulative potential rating.

Recommended measures	Cumulative savings (per year)	Cumulative rating	Individual savings (per year)	Individual rating change
Cavity wall insulation	£110	D 56	£110	+ 5
Floor insulation (solid floor)	£145	D 57	£35	+ 1
Add additional 80 mm jacket to hot water cylinder	£158	D 58	£13	+ 1
Low energy lighting for all fixed outlets	£203	D 60	£45	+ 2
Hot water cylinder thermostat	£265	D 62	£62	+ 2
Replace boiler with new condensing boiler	£370	D 67	£105	+ 5
Solar water heating	£408	C 69	£38	+ 2
Solar photovoltaic panels, 2.5 kWp	£711	C 80	£303	+ 11

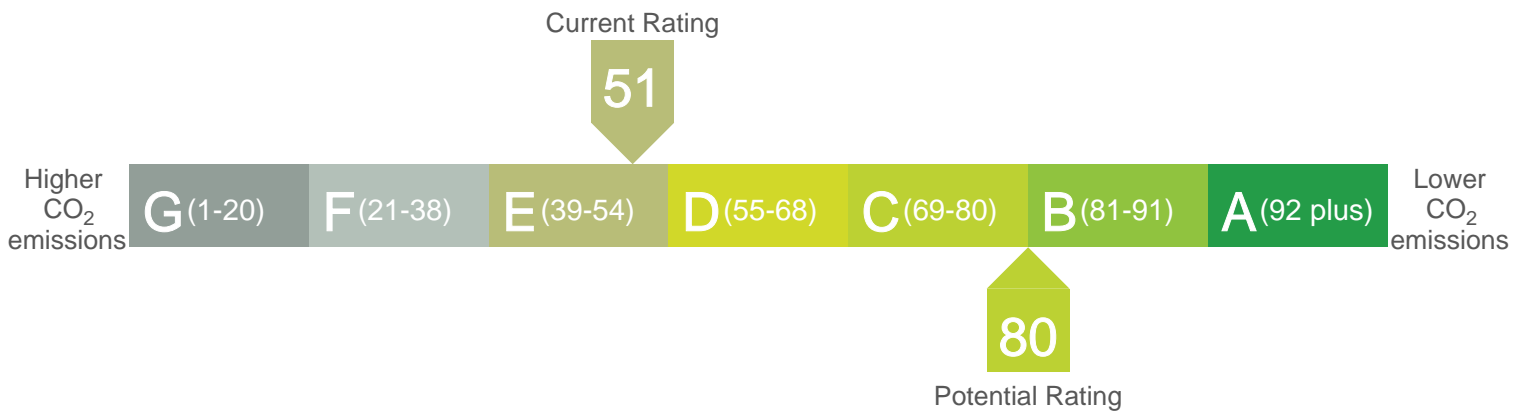
Estimated energy costs of the dwelling

The table below shows the estimated running costs of the space and water heating and lighting within the dwelling. It does not include the energy used from household appliances. The estimated annual costs after potential improvements indicates the total energy cost if all recommended measures named above were installed.

	Estimated annual costs	Estimated annual costs after potential improvements	Potential future savings
Lighting 	£105	£53	
Heating 	£750	£535	
Hot Water 	£207	£67	
TOTAL	£1062	£654	

Estimated CO₂ emissions of the dwelling

The estimated CO₂ rating provides an indication of the dwelling's impact on the environment in terms of carbon dioxide emissions; the higher the rating the less impact it has on the environment.



The estimated CO₂ emissions for this dwellings is: **5.0 Tonnes** per year

With the recommended measures the potential CO₂ emissions could be: **2.0 Tonnes** per year

About this document

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Disclaimer

This Energy Report should not under any circumstances be treated as a Condition Survey and cannot be used to indicate that any element of the dwelling (e.g.heating system) is working correctly.

This Energy Report must not be used in situations where an Energy Performance Certificate (EPC) is required.

This Energy Report is generated from a set of data inputs which may not reflect the actual dimensions, services or construction of the dwelling.

The calculation used to generate this report reflects the RdSAP Methodology current at the time of report generation.

Data inputs

Below is a full list of RdSAP data inputs which have been used to generate this Energy Report. These inputs typically include information about the building envelope (dimensions, walls, floors etc) as well as the utilities which service the property (water, heating, lighting etc). The data inputs can either be 'Inputted' or 'Assumed'. Inputted values are those which have been entered specifically for the calculation, and Assumed values are those required to complete the calculation.

	Inputted values	Assumed values
Regs Region:	England	
Region:	Midlands	
Property Type:	H House, S Semi-Detached	
Number of Storeys:	2	
Number of Rooms:	4	
Number of Rooms Heated:	4	
Dimension Type:	Internal	
Construction details:	Building part: Main - built in E 1967-1975	
	Floor Area [m ²]	Room Height [m] Perimeter [m] Party Wall Length [m]
Lowest floor	35.00	2.40 15.00 7.00
First floor	35.00	2.40 15.00 7.00
Floor Location:		G Ground floor
Floor Type:		S Solid
Floor Insulation:		A As built
Floor U-value Known:		No
Wall Type:		CA Cavity
Wall Insulation:		A As Built
Wall Dry-lining:		No
Wall Thickness Unknown:		No
Wall Thickness:		275
Wall U-value Known:		No
Alternative Wall Area:		0.00
Party Wall:		U Unable to determine
Roof Type:		PA Pitched (slates/tiles), access to loft
Roof Insulation:		U Unknown
Roof U-value Known:		No
Conservatory		
Conservatory Present:	No	
Doors		
Total Doors:	2	
Insulated Doors:	0	
Windows		
Glazed Area		T Typical
Proportion Double\Triple-glazed		100
Glazing		Double pre 2002
Frame Type		PVC frame
Glazing Gap		6 mm
Draught Proofing		100 %
Ventilation & Cooling		
No. of open Fireplaces	0	
Mechanical Ventilation	No	
Fixed Space Cooling	No	
Lighting		
Total number of light fittings	10	
Total number of L.E.L. fittings	0	
Main Heating 1		
PCDF boiler Reference	0	
Main Heating Code	BGA Post 98 Regular non-condens. with auto ign.	
Heat Emitter	Radiators	
Heat pump age	Unknown	

Data inputs

Flue Type	Balanced
Fan Assisted Flue	Yes
PCDF Heating Controls	0
Main Heating Controls	CBE Programmer, room thermostat and TRVs
PCDF Compensator	0
Percentage of Heat	100
Main Heating 2	
PCDF boiler Reference	0
Main Heating Code	
Percentage of Heat	0
Water Heating	
Water Heating Code	HWP From the primary heating system
Hot Water Cylinder	
Hot Water Cylinder Present	Yes
Cylinder Size	Normal
Insulated	Foam
Insulation Thickness	25 mm
Cylinder Thermostat	No
Solar Water Heating	
Solar Water Heating	No
Waste Water Heat Recovery System	
Total Number of rooms with bath and/or shower	1
Number of rooms with mixer shower and no bath	0
Number of rooms with bath and mixer shower	1
Is WWHRS present in the property?	No / Unknown
Flue Gas Heat Recovery System	
Present	No
Photovoltaic Panel	
Photovoltaic Panel	None
Wind Turbine	
Terrain Type	Suburban
Wind turbine present?	No
Other Details	
Electricity meter type	Single
Main gas	Yes