



How much could you earn

by installing an Ecodan ASHP under the Domestic Renewable Heat Incentive?



What is the Domestic Renewable Heat Incentive?

The Domestic Renewable Heat Incentive (Domestic RHI) is a UK Government financial incentive to promote the use of renewable heat.

Switching to heating systems that use naturally replenished energy can help the UK reduce its carbon emissions.

If you join and comply with the scheme rules, you'll receive quarterly payments for seven years for the amount of clean, green renewable heat the system produces.



- ▶ The amount you can earn from the RHI depends on how much energy your home uses for hot water and space heating. This is calculated from your properties' **Energy Performance Certificate (EPC)** which must be less than two years old at time of application.
- ▶ Your RHI payments will be dependant on the efficiency of the heat pump. The higher the seasonal performance factor the greater the amount of renewable heat generated.
- ▶ An optional Metering and Monitoring Service Package (MMSP) will **increase RHI by £1610 over the term of the RHI.**

RHI Payment Examples:



Property type	Space heating load kWh	DHW load kWh	Total kWh	Annual RHI payment 10.49p assuming SPF of 3.55 (EPC total x(1-1/SPF)) *0.1049	Total payment over 7 years	Optional MMSP payment	Total over 7 years including MMSP payments
2 Bed Flat (1960)	4631	1659	6290	£473.96	£3,317.69	£1,610.00	£4,927.69
3 Bedroom Terrace (1970)	7923	2593	10516	£792.39	£5,546.72	£1,610.00	£7,156.72
4 Bed Semi (1950)	11983	2876	14859	£1,119.64	£7,837.45	£1,610.00	£9,447.45
5 Bedroom Detached (1980)	16055	2847	18902	£1,321.88	£9,253.16	£1,610.00	£10,863.16

All information correct at time of publication.

2 Bedroom Flat (1960)

Energy Performance Certificate



Dwelling type: Ground-floor flat
Date of assessment: 08 June 2015
Date of certificate: 09 June 2015

Reference number: 0188-5027-6286-5835-6920
Type of assessment: RdSAP, existing dwelling
Total floor area: 47 m²

Use this document to:

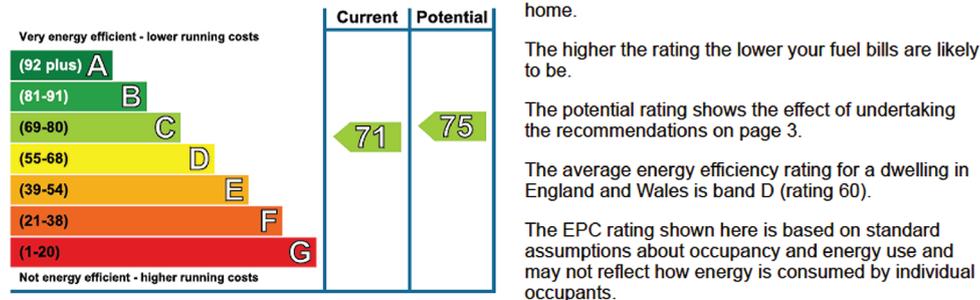
- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

Estimated energy costs of dwelling for 3 years:	£ 1,539
Over 3 years you could save	£ 249

Estimated energy costs of this home			
	Current costs	Potential costs	Potential future savings
Lighting	£ 186 over 3 years	£ 99 over 3 years	
Heating	£ 1,092 over 3 years	£ 930 over 3 years	
Hot Water	£ 261 over 3 years	£ 261 over 3 years	
Totals	£ 1,539	£ 1,290	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by microgeneration.

Energy Efficiency Rating



Top actions you can take to save money and make your home more efficient

Recommended measures	Indicative cost	Typical savings over 3 years
1 Floor insulation (solid floor)	£4,000 - £6,000	£ 174
2 Low energy lighting for all fixed outlets	£40	£ 75

To find out more about the recommended measures and other actions you could take today to save money, visit www.gov.uk/energy-grants-calculator or call 0300 123 1234 (standard national rate). The Green Deal may enable you to make your home warmer and cheaper to run.

2 Bedroom Flat (1960)

09 June 2015 RRN: 0188-5027-6286-5835-6920

Energy Performance Certificate

Summary of this home's energy performance related features

Element	Description	Energy Efficiency
Walls	Cavity wall, filled cavity	★★★★☆
Roof	(another dwelling above)	—
Floor	Solid, no insulation (assumed)	—
Windows	Fully double glazed	★★★☆☆
Main heating	Boiler and radiators, mains gas	★★★★☆
Main heating controls	Programmer, room thermostat and TRVs	★★★★☆
Secondary heating	None	—
Hot water	From main system	★★★★☆
Lighting	Low energy lighting in 11% of fixed outlets	★★☆☆☆

Current primary energy use per square metre of floor area: 233 kWh/m² per year

The assessment does not take into consideration the physical condition of any element. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology based on age and type of construction.

Low and zero carbon energy sources

Low and zero carbon energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon. There are none provided for this home.

Your home's heat demand

For most homes, the vast majority of energy costs derive from heating the home. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use (shown within brackets as it is a reduction in energy use).

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	4,631	N/A	N/A	N/A
Water heating (kWh per year)	1,659			

You could receive Renewable Heat Incentive (RHI) payments and help reduce carbon emissions by replacing your existing heating system with one that generates renewable heat, subject to meeting minimum energy efficiency requirements. The estimated energy required for space and water heating will form the basis of the payments. For more information, search for the domestic RHI on the www.gov.uk website.

RHI Payment Examples:

Total payment over 7 years	£3,317.69
Optional MMSP payment	£1,610.00
Total over 7 years including MMSP payments	£4,927.69

3 Bedroom Terrace (1970)

Energy Performance Certificate



Dwelling type: end-terrace house
Date of assessment: 21 October 2014
Date of certificate: 21 October 2014

Reference number: 8164-6020-4469-0519-0926
Type of assessment: RdSAP, existing dwelling
Total floor area: 112 m²

Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

Estimated energy costs of dwelling for 3 years: £ 1,917

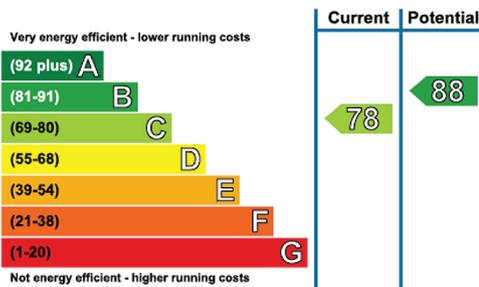
Over 3 years you could save £ 162

Estimated energy costs of this home

	Current costs	Potential costs	Potential future savings
Lighting	£ 189 over 3 years	£ 189 over 3 years	
Heating	£ 1,491 over 3 years	£ 1,329 over 3 years	
Hot Water	£ 237 over 3 years	£ 237 over 3 years	
Totals	£ 1,917	£ 1,755	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by microgeneration.

Energy Efficiency Rating



The graph shows the current energy efficiency of your home.

The higher the rating the lower your fuel bills are likely to be.

The potential rating shows the effect of undertaking the recommendations on page 3.

The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60).

The EPC rating shown here is based on standard assumptions about occupancy and energy use and may not reflect how energy is consumed by individual occupants.

Top actions you can take to save money and make your home more efficient

Recommended measures	Indicative cost	Typical savings over 3 years
1 Floor Insulation	£800 - £1,200	£ 161
2 Solar photovoltaic panels, 2.5 kWp	£9,000 - £14,000	£ 775

To find out more about the recommended measures and other actions you could take today to save money, visit www.gov.uk/energy-grants-calculator or call 0300 123 1234 (standard national rate). The Green Deal may enable you to make your home warmer and cheaper to run.

3 Bedroom Terrace (1970)

21 October 2014 RRN: 8164-6020-4469-0519-0926

Energy Performance Certificate

Summary of this home's energy performance related features

Element	Description	Energy Efficiency
Walls	Cavity wall, filled cavity	★★★★☆
Roof	Pitched, 300+ mm loft insulation	★★★★★
Floor	Solid, no insulation (assumed)	—
Windows	Fully double glazed	★★★★☆
Main heating	Boiler and radiators, mains gas	★★★★☆
Main heating controls	Programmer, room thermostat and TRVs	★★★★☆
Secondary heating	None	—
Hot water	From main system, plus solar	★★★★★
Lighting	Low energy lighting in all fixed outlets	★★★★★

Current primary energy use per square metre of floor area: 114 kWh/m² per year

The assessment does not take into consideration the physical condition of any element. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology based on age and type of construction.

Low and zero carbon energy sources

Low and zero carbon energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon. The following low or zero carbon energy sources are provided for this home:

- Solar water heating

Your home's heat demand

For most homes, the vast majority of energy costs derive from heating the home. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use (shown within brackets as it is a reduction in energy use).

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	7,923	N/A	N/A	N/A
Water heating (kWh per year)	2,593			

You could receive Renewable Heat Incentive (RHI) payments and help reduce carbon emissions by replacing your existing heating system with one that generates renewable heat, subject to meeting minimum energy efficiency requirements. The estimated energy required for space and water heating will form the basis of the payments. For more information, search for the domestic RHI on the www.gov.uk website.

RHI Payment Examples:

Total payment over 7 years	£5,546.72
Optional MMSP payment	£1,610.00
Total over 7 years including MMSP payments	£7,156.72

4 Bedroom Semi (1950s)

Energy Performance Certificate



Dwelling type: Semi-detached house

Date of assessment: 24 July 2013

Date of certificate: 24 July 2013

Reference number: 8777-7723-1900-5144-3922

Type of assessment: RdSAP, existing dwelling

Total floor area: 114 m²

Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
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Estimated energy costs of dwelling for 3 years: £ 2,505

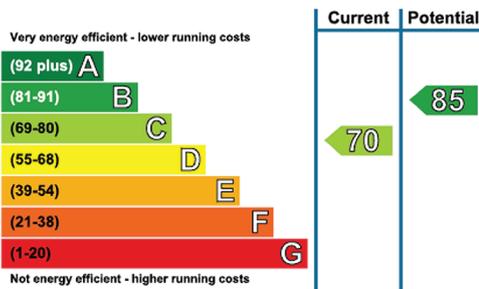
Over 3 years you could save £ 615

Estimated energy costs of this home

	Current costs	Potential costs	Potential future savings
Lighting	£ 273 over 3 years	£ 183 over 3 years	
Heating	£ 1,248 over 3 years	£ 1,128 over 3 years	
Hot Water	£ 984 over 3 years	£ 579 over 3 years	
Totals	£ 2,505	£ 1,890	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by microgeneration.

Energy Efficiency Rating



The graph shows the current energy efficiency of your home.

The higher the rating the lower your fuel bills are likely to be.

The potential rating shows the effect of undertaking the recommendations on page 3.

The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60).

The EPC rating shown here is based on standard assumptions about occupancy and energy use and may not reflect how energy is consumed by individual occupants.

Top actions you can take to save money and make your home more efficient

Recommended measures	Indicative cost	Typical savings over 3 years
1 Floor Insulation	£800 - £1,200	£ 135
2 Low energy lighting for all fixed outlets	£40	£ 78
3 Solar water heating	£4,000 - £6,000	£ 315

See page 3 for a full list of recommendations for this property.

To find out more about the recommended measures and other actions you could take today to save money, visit www.gov.uk/energy-grants-calculator or call 0300 123 1234 (standard national rate). The Green Deal may enable you to make your home warmer and cheaper to run.

4 Bedroom Semi (1950s)

24 July 2013 RRN: 8777-7723-1900-5144-3922

Energy Performance Certificate

Summary of this home's energy performance related features

Element	Description	Energy Efficiency
Walls	Cavity wall, filled cavity	★★★★☆
	Cavity wall, as built, insulated (assumed)	★★★★☆
Roof	Pitched, 300+ mm loft insulation	★★★★★
Floor	Solid, no insulation (assumed)	—
	Solid, limited insulation (assumed)	—
	To unheated space, limited insulation (assumed)	—
Windows	Fully double glazed	★★★☆☆
Main heating	Air source heat pump, fan coil units, electric	★★★★★
Main heating controls	Programmer and room thermostat	★★★☆☆
Secondary heating	Room heaters, wood logs	—
Hot water	From main system	★☆☆☆☆
Lighting	Low energy lighting in 50% of fixed outlets	★★★★☆

Current primary energy use per square metre of floor area: 157 kWh/m² per year

The assessment does not take into consideration the physical condition of any element. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology based on age and type of construction.

Low and zero carbon energy sources

Low and zero carbon energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon. The following low or zero carbon energy sources are provided for this home:

- Biomass secondary heating
- Air source heat pump

Your home's heat demand

For most homes, the vast majority of energy costs derive from heating the home. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use (shown within brackets as it is a reduction in energy use).

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	11,983	N/A	N/A	N/A
Water heating (kWh per year)	2,876			

Homeowners could receive Renewable Heat Incentive (RHI) payments and help reduce carbon emissions by replacing your existing heating system with a renewable heat source, subject to meeting minimum energy efficiency requirements. For more information on the payments, visit [www.rhi.gov.uk](#)

RHI Payment Examples:

Total payment over 7 years	£7,837.45
Optional MMSP payment	£1,610.00
Total over 7 years including MMSP payments	£9,447.45

5 Bedroom Detached (1980s)

Energy Performance Certificate



Dwelling type: Detached house
Date of assessment: 18 April 2015
Date of certificate: 19 April 2015

Reference number: 0931-2858-7948-9395-3421
Type of assessment: RdSAP, existing dwelling
Total floor area: 152 m²

Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

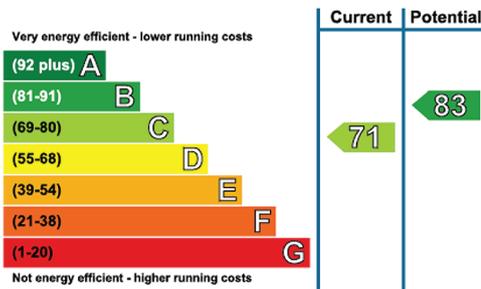
Estimated energy costs of dwelling for 3 years:	£ 3,333
Over 3 years you could save	£ 612

Estimated energy costs of this home

	Current costs	Potential costs	Potential future savings
Lighting	£ 354 over 3 years	£ 228 over 3 years	
Heating	£ 2,577 over 3 years	£ 2,238 over 3 years	
Hot Water	£ 402 over 3 years	£ 255 over 3 years	
Totals	£ 3,333	£ 2,721	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by microgeneration.

Energy Efficiency Rating



The graph shows the current energy efficiency of your home.

The higher the rating the lower your fuel bills are likely to be.

The potential rating shows the effect of undertaking the recommendations on page 3.

The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60).

The EPC rating shown here is based on standard assumptions about occupancy and energy use and may not reflect how energy is consumed by individual occupants.

Top actions you can take to save money and make your home more efficient

Recommended measures	Indicative cost	Typical savings over 3 years
1 Floor insulation (solid floor)	£4,000 - £6,000	£ 234
2 Low energy lighting for all fixed outlets	£45	£ 108
3 Solar water heating	£4,000 - £6,000	£ 141

See page 3 for a full list of recommendations for this property.

To find out more about the recommended measures and other actions you could take today to save money, visit www.gov.uk/energy-grants-calculator or call 0300 123 1234 (standard national rate). The Green Deal may enable you to make your home warmer and cheaper to run.

5 Bedroom Detached (1980s)

19 April 2015 RRN: 0931-2858-7948-9395-3421

Energy Performance Certificate

Summary of this home's energy performance related features

Element	Description	Energy Efficiency
Walls	Cavity wall, filled cavity	★★★★☆
Roof	Pitched, 300 mm loft insulation Flat, insulated (assumed)	★★★★★ ★★★★☆
Floor	Solid, no insulation (assumed)	—
Windows	Partial double glazing	★★☆☆☆
Main heating	Boiler and radiators, mains gas	★★★★☆
Main heating controls	Programmer, room thermostat and TRVs	★★★★☆
Secondary heating	None	—
Hot water	From main system	★★★★☆
Lighting	Low energy lighting in 44% of fixed outlets	★★★★☆

Current primary energy use per square metre of floor area: 190 kWh/m² per year

The assessment does not take into consideration the physical condition of any element. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology based on age and type of construction.

Low and zero carbon energy sources

Low and zero carbon energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon. There are none provided for this home.

Your home's heat demand

For most homes, the vast majority of energy costs derive from heating the home. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use (shown within brackets as it is a reduction in energy use).

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	16,055	N/A	N/A	N/A
Water heating (kWh per year)	2,847			

You could receive Renewable Heat Incentive (RHI) payments and help reduce carbon emissions by replacing your existing heating system with one that generates renewable heat, subject to meeting minimum energy efficiency requirements. The estimated energy required for space and water heating will form the basis of the payments. For more information, search for the domestic RHI on the www.gov.uk website.

RHI Payment Examples:

Total payment over 7 years	£9,253.16
Optional MMSP payment	£1,610.00
Total over 7 years including MMSP payments	£10,863.16



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of July 2018



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