

## Residential Energy Statement Calculation:

To enable us to complete your Residential Energy Statement Calculation please email us:

- 1) A completed Checklist
- 2) Building floor plans to scale, with the usage of each room clearly labelled
- 3) Elevations and sections to show doors, windows and storey heights
- 4) Site plan, or information regarding the orientation of the building

For us to be able to produce the most accurate calculations for your project, please fill in all areas of this checklist. If further information can be located from the plans, make a note of the file name, or page number for easy reference. We will assume your building needs to fully comply with Part L1 of the current Building Regulations. If you do not need to meet emission targets, please let us know (if you are unsure, consult your Building Control Department.)

## Project Details:

Site Address for which the Energy Statement is required:

Post code:

Planned date of build completion:

No of dwellings requiring an Energy Statement:

Who should we contact if there are any queries about the Energy Statement Calculation?

Name:

Telephone:

Email:

Whom should we send the reports to? (We only send reports via email unless specified otherwise)

Name:

Email:

Address:

Post code:

Please note: for the purposes of speed and energy efficiency, we send your reports to you by email. If you would like a hard copy too, we're happy to do this for you and only charge a small admin and postage fee of £6 + VAT per report

Predicted Energy Assessment required?   
(Required when selling "off plan")

Energy Performance Certificate required?   
(Required on all new builds from April 2008)

Please indicate the Local Planning Authority and Planning Policy for which this Energy statement is required.  If you have any additional literature e.g. copy of your planning approval, letter from the Council please include this with your completed checklist.

## Payment Details:

Do you hold an account with us?

Do you require our:

Standard Service

(10-14 days)

Fast Track Service

(48 hours)

Cheque enclosed:

Name on cheque:

BACS transaction:

BACS reference:

BACS date and amount:

£

(HSBC sort code: 40-44-66. Energist UK account: 80008338)

Debit Card:

Please contact Customer Support on 08458 386 387 for payment

Credit Card:

Please contact Customer Support (credit card payments are subject to a 2.5% surcharge)

## U-value Calculations:

Each area of your construction requires a U-value. If your Architect has already calculated these, please write them in the boxes below. If you need us to calculate them for you, we will be happy to do this for you for just £18 + VAT per U-value calculation.

### 1. Floor Constructions: (please provide U-values for floors)

	U-value	Location
Ground floor	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Floors above a garage	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Floors above a commercial unit (such as an office or takeaway)	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Floors above an unheated basement	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>

### 2. Wall Constructions: (please provide U-values for walls)

	U-value	Location
External walls	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Adjoining a garage	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Adjoining a commercial unit (such as an office or takeaway)	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Adjoining unheated corridors or stairways (in a block of flats)	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Adjoining underground (a basement or supporting wall)	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>

### 3. Roof Constructions: (please provide U-values for roofs)

	U-value	Location
Main roof	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
A balcony on top of a lower floor	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>
Ceiling of basement (if not under the main house)	<input type="text"/> W/m <sup>2</sup> K	<input type="text"/>

### 4. Glazing and Rooflights: (please tick one box from each row)

Enter the U-value of the units, including frames. If glazing specification is mixed, please specify.	Glazing		Rooflights	
	<input type="text"/>	W/m <sup>2</sup> K	<input type="text"/>	W/m <sup>2</sup> K
Glass:	SINGLE <input type="checkbox"/>	DOUBLE <input type="checkbox"/>	TRIPLE <input type="checkbox"/>	
Frame:	PVCu <input type="checkbox"/>	TIMBER <input type="checkbox"/>	METAL <input type="checkbox"/>	
Low-E Coating:	YES <input type="checkbox"/>	NO <input type="checkbox"/>	THERMAL BREAK <input type="text"/>	mm
Double glazed air gap:	6mm <input type="checkbox"/>	12mm <input type="checkbox"/>	16mm and greater <input type="checkbox"/>	
Double glazed gas type:	AIR <input type="checkbox"/>	ARGON <input type="checkbox"/>	KRYPTON <input type="checkbox"/>	

## 5. External Doors: (please tick all that are applicable)

Enter the U-value of the units, including frames. Doors  W/m<sup>2</sup>K

You do not need to include patio doors here, as these should be included in the glazing section.

Are external doors: SOLID  PARTIALLY GLAZED; how much is glazed (%)  %  
Material: TIMBER  UPVC  METAL  THERMAL BREAK  mm

## 6. Air Leakage Test:

You may be required to have an air leakage test carried out at time of completion. In order to produce the initial SAP calculations, we are required to enter a predicted figure. If you leave the box empty, we shall assume a default figure of 10, which is the maximum allowed. Enter your predicted air leakage test result  mm<sup>3</sup>/hm<sup>2</sup> @50Pa  
Please contact the Customer Support team if you require further explanation, or visit our website or request a quotation from our Air Leakage Team.

## 7. Ventilation:

Total number of extraction fans  (proceed to Q8)

OR

If you are installing a whole house mechanical ventilation system, we shall require the following information:

Manufacturer:  Product Name:

Is there Heat Recovery YES  NO

Will the ducting be: RIGID  (recommended) FLEXI

What is the Specific Fan Power  W/l/s What is the Heat Exchange Efficiency  %

## 8. Main Heating System: (please tick all that are applicable)

Emitters: RADIATORS  UNDERFLOOR (Screed)  UNDERFLOOR (Timber)

Controls: COMPENSATOR or OPTIMIZER  PROGRAMMER  THERMOSTATIC RADIATOR VALVES

ROOM STAT

ZONE CONTROL SYSTEM  (required on properties with a floor area greater than 150m<sup>2</sup>)

Please select ONE of the following three options as the main heat source:

Boiler  Make:  Model:  SEDBUK efficiency  %

Fuel: MAINS GAS  BOTTLED GAS  OIL  LPG  ELECTRIC  BIOMASS

Heat Pump  Make:  Model:

Source: Ground to water  Air to water  Water to water  Air to air

Fuel: Electric  Mains Gas

Electric  PANEL HEATERS  STORAGE HEATERS (Economy 7)  Note: It is much more difficult to meet current emission targets with panel or storage heaters than other heating systems. This is due to the high penalties placed on the production and transportation of electricity under SAP methodology.

Provide separate details for community/district heating, or if a Combined Heat and Power unit is being installed.

## 9. Secondary heating:

Please be aware that if no secondary heating is present, SAP will assume portable electric heaters are to be used.

Wood Logs:  Type: HETAS Approved Open fire in grate  HETAS Approved Closed log burner   
 OR  Type: Open front fire  Close front fire   
 Gas:  Flue: Connected to flue  Connected to chimney  Flueless   
 Efficiency of gas system  %

## 10. Hot water:

Provided by main heating system? Yes  No  Provided by secondary heating system? Yes  No   
 Provided by a community system? Yes  No   
 If a storage tank is present: Capacity  litres Insulation thickness  mm  
 Fuel: MAINS GAS  BOTTLED GAS  OIL  LPG  ELECTRIC  BIOMASS

## 11. Lighting:

### Internal Lighting

Part L1A states that a quarter of all internal light fittings must be low-energy exclusive, OR there must be one low energy light fitting per every 25m<sup>2</sup> of useful floorspace, whichever is the greater. Do not include lighting details for unheated areas, such as garages, conservatories and attics in your answers.

What is the total number of low energy light fittings in the property?

What is the total number of standard light fittings in the property?

### External Lighting

All external lighting to the dwelling will be energy saving Yes  No

Security lights will use a PIR sensor and run at 150 watts maximum Yes  No

(Answering 'No' to BOTH of these questions will show a Fail in section 2.8 of your end report.)

## 12. Accredited Construction:

If your build is accredited, the SAP software will assume best practice for thermal bridging and consequently record better emission rates. Having an independent inspector regularly visit your construction site can meet these criteria. Alternatively, you can provide us with 'γ-values' for your building. Your Building Control Officer may be able to help you find independent inspectors in your area.

Are accredited construction details being submitted to your building control body? If so, please select:

NHBC  BESCA  ZURICH  RICS  Other:

## 13. Energy Statement Information:

Please confirm the name of the council which has requested an Energy Statement to be completed on this development?

Please indicate what percentage reduction has been asked for (usually either 10 or 20% but can vary)  %

Is the reduction to be based on emissions (kgCO<sub>2</sub>) or energy use (kWh) – (usually emissions)

emissions (kgCO<sub>2</sub>)  emissions (kWh)

As part of the energy statement process, we will measure the effect of six types of technology, defined as ‘renewable’ for the purposes of the assessment. The report will usually conclude by recommending that one or two of the renewable technologies listed below is incorporated into your development in order to show compliance with the council.

If you have any preferences for a particular renewable technology, please indicate this below:

- |  |                          |
|--|--------------------------|
| Solar Panels for hot water                                   | <input type="checkbox"/> |
| Photovoltaics to reduce reliance on National Grid            | <input type="checkbox"/> |
| Ground Source Heat Pump as main heating system               | <input type="checkbox"/> |
| Wind turbines (only recommended in rural, high locations)    | <input type="checkbox"/> |
| Biomass heating (usually recommended for large developments) | <input type="checkbox"/> |
| CHP (usually recommended on large commercial units)          | <input type="checkbox"/> |

## 14. ‘Code for Sustainable Homes’/ ‘EcoHomes’

Note: Energist UK has a fully qualified CSH and EcoHomes team. Please contact our Projects and Pricing Team for more information about how to prepare your future building sites.

a) Do you require this dwelling to meet a “Code for Sustainable Homes” level (level 1 - 6)?

Yes  No  Level required? (select using dropdown menu)

OR

b) Do you require this dwelling to meet an “EcoHomes” level?

Yes  No  Level required? (select using dropdown menu)

Completed by:  Date:

- Please ensure this form is completed as accurately as possible as any changes may incur additional costs.
  - Please email your completed checklist and any accompanying drawings (floor plans, elevations etc) to [checklist@energistuk.co.uk](mailto:checklist@energistuk.co.uk)
- Energist UK, Energist House, Kemble Enterprise Park, Kemble, Gloucestershire GL7 6BQ.
- *You can be confident that your Project is in safe hands with Energist.*

Submit