

SBEM Calculation:

To enable us to complete your SBEM Calculation please email us:

- 1) A completed SBEM 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
- 5) Details of heating systems, lighting and air conditioning units where applicable

Ideally, plans should be sent in a CAD or DXF format. If these are not available we can use PDF or DWG files. Paper plans will incur an additional charge.

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 L2 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 SBEM is required:

Post code:

Planned date of build completion: No of properties/buildings requiring an SBEM:

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

Name: Telephone:

Email:

Who 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

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

Payment Details:

Do you hold an account with us?

Do you require our: Standard Service (14-21 days) Fast Track Service (72 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 ² K	<input type="text"/>
Floors above unheated space	<input type="text"/>	W/m ² K	<input type="text"/>
Floors above an unheated basement	<input type="text"/>	W/m ² K	<input type="text"/>

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

	U-value		Location
External walls	<input type="text"/>	W/m ² K	<input type="text"/>
Adjoining unheated corridors or stairways (in a block of flats)	<input type="text"/>	W/m ² K	<input type="text"/>
Adjoining underground (a basement or supporting wall)	<input type="text"/>	W/m ² K	<input type="text"/>

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

	U-value		Location
Main roof	<input type="text"/>	W/m ² K	<input type="text"/>
A balcony on top of a lower floor	<input type="text"/>	W/m ² K	<input type="text"/>
Ceiling of basement (if not under the main building)	<input type="text"/>	W/m ² 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		Glazing		Rooflights	
	<input type="text"/>	W/m ² K	<input type="text"/>	W/m ² K	<input type="text"/>	W/m ² 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. W/m²K

Are external personal doors: SOLID PARTIALLY GLAZED; how much is glazed (%) U-value

Material: TIMBER UPVC METAL

External vehicle doors: U-value

6. Heating

Please note, an SBEM cannot be produced on a building which does not have heating, lighting or hot water. If details are not provided, we will assume a default setting for your initial calculations.

Emitters: RADIATORS UNDERFLOOR AIR CON CONVECTORS

What type of heating controls does the main building have?

BUILDING PROGRAMMER ZONE CONTROL ROOM THERMOSTATS

BUILDING MANAGEMENT SYSTEM COMPENSATOR

Below is a list of common heating types for commercial premises; please fill in all that apply:

Boiler Areas of the building where this system is used:

Make: Model: Efficiency: %

Fuel: MAINS GAS OIL LPG ELECTRIC BIOMASS

Air Con or Heat Pump Areas of the building where this system is used:

Make: Model:

Air con system: AIR SOURCE GROUND SOURCE WATER SOURCE

Cooling system: AIR REMOTE CONDENSER WATER

Efficiencies: HEATING (COP) COOLING (EER)

Electric Panel or Storage Heaters Areas of the building where this system is used:

Air Blowers Areas of the building where this system is used:

Make: Model: Efficiency: %

Fuel: MAINS GAS OIL LPG ELECTRIC

All Other Heating Types Areas of the building where this system is used:

Make: Model:

Fuel: MAINS GAS LPG OIL BIOGAS ELECTRIC
SOLID FUEL WOOD LOGS DUAL FUEL BIOMASS

If you are planning to use a community heating system, or a Combined Heat and Power unit, please provide separate details.

7. Hot Water Systems:

Below is a list of common hot water types for commercial premises; please complete all sections that apply:

From Heating System

Which heating system will supply the water?

Areas of the building where this system is used:

Instantaneous Hot Water

Areas of the building where this system is used:

Separate Boiler

Areas of the building where this system is used:

Make: Model: Efficiency: %

Fuel: MAINS GAS LPG OIL BIOGAS ELECTRIC BIOMASS

8. Ventilation:

Which rooms will be equipped with extraction fans?

TOILETS SHOWERS KITCHEN LAUNDRY OTHER

If you are installing a mechanical ventilation system:

Is there Heat Recovery YES NO

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

9. Lighting:

In which areas of the building will the following lighting systems be used:

Standard tungsten / halogen

T5 fluorescents (16mm)

T8 fluorescents (25mm)

T12 fluorescents (38mm)

Compacts / Energy Savers

Sodium or Mercury Lighting

Halide Floodlights

Are any areas of the building equipped with the following lighting controls

Automatic ON and OFF

Automatic ON; Dimmed

Automatic OFF only

Is there 'Display lighting' - such as spotlights in a shop window, reception or foyer? YES NO

If so, how many hours a day are they used?

10. Renewables:

- Solar Panels:** Area of panels: m² Degree Pitch ° Orientation
 Is the hot water cylinder connected to the heating Separate storage cylinder litres
 If known, please provide the collector efficiency % and the heat loss efficiency %
- Photovoltaic:** Area of panels: m² Degree Pitch ° Orientation
- Micro Turbines:** Total Number: Diameter cm Distance from hub to ground m
- Offsite:** Please provide separate details of the total kW/h/yr produced, and how many properties share the system

11. 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 SBEM calculations, we are required to enter a predicted figure.

If the floor area of your building is less than 500m², we will assume a figure of 15 m³/hm² @50Pa, this figure is used on buildings which qualify for an exemption from the air test. Please note it is more difficult to obtain a "pass" on emissions using this figure.

If the floor area of your building is greater than 500m², we will assume a figure of 10 m³/hm² @50Pa.

If you are having an air test, and you believe a better figure will be reached, enter the figure below. Please note, at the point of completion, you will be required to meet this figure: mm³/hm² @50Pa

Please contact the Customer Support team if you require further explanation, or visit our website.

Would you like Energist UK to provide a quote for air testing this building: YES NO

12. BREEAM

Energist UK has a fully qualified team of BREEAM assessors for all BREEAM schemes.

Do you require this building to meet a BREEAM standard?

Yes No If yes, please state which category:

If yes, please indicate level required: • Pass • Good • Very good • Excellent • Outstanding

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
- 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