

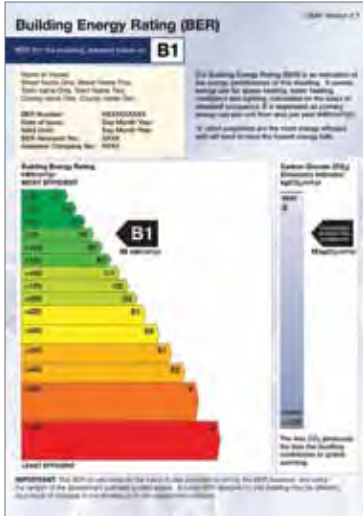
A Guide to Building Energy Rating for Homeowners





What is a BER?

A Building Energy Rating or BER is an energy label with accompanying advisory report for homes. The rating is a simple A to G scale. A-rated homes are the most energy efficient and will tend to have the lowest energy bills.



BER Cert



Advisory Report

A BER makes the energy performance of a home visible to prospective buyers and tenants allowing them to take energy performance into consideration in their purchase or rental decision. The Advisory Report identifies potential energy performance improvements that could lead to better comfort levels, reduced energy use and costs.

A BER is valid for up to 10 years provided that there is no material change to the home that could affect the energy performance. A Provisional BER, derived from the plans for an as yet unbuilt home, has a maximum validity of 2 years.



Who needs a BER?

An owner must provide a BER to prospective buyers or tenants when a home is offered for sale or rent. There are exemptions for certain building categories e.g. protected structures and temporary buildings. A homeowner must obtain a BER before a new home is occupied for the first time regardless of whether it is offered for sale or rent.

BER details must be included on advertisements when a home is offered for sale or rent.



How is a BER calculated?

A BER is based on the calculated energy performance and associated carbon dioxide emissions for the provision of space heating, ventilation, water heating and lighting under standardised operating conditions. The characteristics of the major components of the home including dimensions, orientation, insulation, and space and hot water system efficiencies are used in the calculation. The BER is not dependent on current occupant behaviour.

The energy performance is expressed as:

- (a) Primary energy use per unit floor area per year ($\text{kWh}/\text{m}^2/\text{yr}$) represented on an A to G scale; and
- (b) Associated Carbon Dioxide (CO_2) emissions in $\text{kgCO}_2/\text{m}^2/\text{yr}$

A BER is only an indication of the energy performance of a home, similar to the concept of a fuel economy (miles per gallon or litres per 100km) rating for a car.

A BER does not include electricity used for purposes other than heating, lighting, pumps and fans. Therefore the energy used for electrical appliances such as cookers, fridges, washing machines and TVs is excluded.



Who carries out BERs?

BERs are published by independent assessors registered with SEAI. To become registered BER assessors must complete an accredited training course, pass a national examination and act in accordance with a Code of Practice published by SEAI. A list of registered BER assessors is available online at www.seai.ie/ber.



How much does a BER cost?

A person offering a home for sale or rent, or their agent, is required to employ a registered BER assessor to carry out an assessment. There is no set fee and the advice is to shop around for the best value. Make sure to confirm all fees in writing prior to commissioning a BER assessment. BER assessors are charged a levy to publish a BER assessment for a home on the National BER Register.



What is a Provisional BER?

New homes offered for sale off plans also require a BER. A provisional BER is issued based upon the design drawings and building specifications. The provisional BER is valid for a maximum of 2 years. When the home is completed, the provisional BER must be replaced by a final BER based on a survey of the completed home supported by the final drawings and building specifications which represent the home as constructed.



Who is responsible for the BER scheme?

Under the European Union (Energy Performance of Buildings) Regulations 2012 (S.I. 243 of 2012) the Sustainable Energy Authority of Ireland (SEAI) is designated as the Issuing Authority with responsibility for the registration of BER assessors, maintaining the registers of BER assessments, quality assurance, awareness raising and ongoing management of the BER scheme. Under the same legislation, enforcement of compliance with BER obligations is a matter for local Building Control Authorities.

**For more information see the SEAI website
or call 1890 734 237 www.seai.ie/ber**



Your BER certificate explained

Version of software used to rate this home

DEAP Version X.Y

Actual Building Energy Rating for this home

Building Energy Rating (BER)

BER for the building detailed below is: **B1**

Home Address

Name of House:
Street Name One, Street Name Two,
Town Name One, Town Name Two,
County name One, County name Two.

The Building Energy Rating (BER) is an indication of the energy performance of this dwelling. It covers energy use for space heating, water heating, ventilation and lighting, calculated on the basis of standard occupancy. It is expressed as primary energy use per unit floor area per year (kWh/m²/yr).

'A' rated properties are the most energy efficient and will tend to have the lowest energy bills.

Each home has a unique BER number

BER Number: XXXXXXXXXX
Date of Issue: Day Month Year
Valid Until: Day Month Year
BER Assessor No.: XXXX
Assessor Company No.: XXXX

BER Assessor Number – This is the registration number for the assessor who carried out this assessment



Assessor Company Number – This is the registration number for the assessor company who carried out this assessment

BER Rating A-G
A1 = Most Efficient
G = Least Efficient
Accompanied by the calculated energy value in kWh/m²/annum

Carbon Dioxide (CO₂) Emissions Indicator kgCO₂/m²/yr

BEST: 0

Calculated annual CO₂ emissions: 18 kgCO₂/m²/yr

WORST: >120

The less CO₂ produced, the less the dwelling contributes to global warming.

CO₂ emissions for your home. Lower is best and it's an indication of how green your home is

IMPORTANT: This BER is calculated on the basis of data provided to and by the BER Assessor, and using the version of the assessment software supplied above. A future BER assigned to this dwelling may be different as a result of changes to the dwelling or to the assessment software.



How might my home rate?

Table 1: Indicative Building Energy Rating grades for typical homes

Oil/gas central heating		Standard electric heating		Solid fuel central heating	
Year of construction	Typical energy rating	Year of construction	Typical energy rating	Year of construction	Typical energy rating
2012+	A3	2012+	A3	2012+	A3
2010-2011	B1	2010-2011	B1	2010-2011	B1
2008-2009	B3	2008-2009	C3	2008-2009	B3
2005-2007	C1	2005-2007	D1	2005-2007	C2
1994-2004	C3	1994-2004	E1	1994-2004	D1
1978-1993	D1	1978-1993	E2	1978-1993	D2
Pre 1978	D2/E1/E2	Pre 1978	G	Pre 1978	F

These tables indicate the typical BER rating for houses by age for various fuel types. The data reflects typical Building Regulations and practices at the time of construction.

Table 2: Indicative annual CO₂ emissions and running costs for different rating bands for space and water heating

Rating	2 Bed Apartment		3 Bed Semi-D		4 Bed Semi-D		Detached House		Large house	
	Area (m ²)	75	Area (m ²)	100	Area (m ²)	150	Area (m ²)	200	Area (m ²)	300
	Tonnes CO ₂	Cost (€)	Tonnes CO ₂	Cost (€)	Tonnes CO ₂	Cost (€)	Tonnes CO ₂	Cost (€)	Tonnes CO ₂	Cost (€)
A1	0.4	€140	0.5	€190	0.8	€280	1.1	€400	1.6	€600
A2	0.8	€280	1.1	€380	1.6	€560	2.2	€800	3.2	€1,100
A3	1	€350	1.4	€470	2	€700	2.7	€900	4.1	€1,400
B1	1.3	€440	1.7	€590	2.5	€900	3.4	€1,200	5	€1,800
B2	1.6	€570	2.2	€800	3.3	€1,100	4.3	€1,500	6.5	€2,300
B3	2	€700	2.7	€900	4	€1,400	5.3	€1,900	8	€2,800
C1	2.4	€800	3.1	€1,100	4.7	€1,600	6.3	€2,200	9.4	€3,300
C2	2.8	€1,000	3.7	€1,300	5.5	€1,900	7.4	€2,600	11	€3,900
C3	3.2	€1,100	4.2	€1,500	6.3	€2,200	8.4	€2,900	12.7	€4,400
D1	3.7	€1,300	5	€1,700	7.5	€2,600	10	€3,500	14.9	€5,200
D2	4.4	€1,500	5.8	€2,000	8.8	€3,100	11.7	€4,100	17.5	€6,100
E1	5	€1,800	6.7	€2,300	10.1	€3,500	13.4	€4,700	20.1	€7,000
E2	5.7	€2,000	7.6	€2,600	11.4	€4,000	15.1	€5,300	22.7	€7,900
F	6.8	€2,400	9.1	€3,200	13.6	€4,700	18.2	€6,300	27.2	€9,500
G	8.5	€3,000	11.3	€4,000	17	€5,900	22.7	€7,900	34	€11,900

This table gives estimated annual fuel cost and CO₂ emissions on the basis of typical occupancy and heating the entire dwelling to a comfortable level.

The Tables above are based on fuel and electricity factors from February 2014.