

# Energy Efficiency Statement

## What information should an Energy Statement contain?

the energy efficiency of the building  
baseline of annual predicted energy demand  
baseline of annual predicted carbon emissions  
a schedule of the renewable energy technologies being considered, with calculations

### To include:

#### Energy efficiency of the building -

- thermal insulation of the building
- efficiency of heating system and controls
- air permeability of the building
- orientation - solar gains

#### A baseline of annual predicted energy demand -

- 1 Space heating to a standard pattern (SAP 2005)
- 2 Heating hot water
- 3 Lighting
- 3 Cooking

This represents approximately 80% of energy consumption of the dwelling

The remaining 20% can be divided into four to cover:

- wet appliances (washing machines)
- hot appliances (cookers/microwaves/toasters)
- cold appliances ( fridges/freezers)
- other household appliances (tv, audio, lawn mowers)

#### A baseline of annual predicted carbon emissions –

Taken from the SAP calculation

Plus circa 15 - 20% to cover:-

- wet appliances (washing machines)
- hot appliances (cookers/microwaves etc)
- cold appliances (fridges/freezers)
- other household appliances (tv, audio, lawn mowers)

**A schedule of the renewable energy technologies may be considered (with supporting calculations) -**

- solar heat (evacuated tubes)
- solar electric (PV)
- wind turbines (include wind shadow survey)
- ground source heat pumps
- air to air heat pumps
- boreholes for heat extraction

**Carbon neutral appliances –**

- log burners
- wood chip boilers
- wood pellets
- bio fuel boilers and heating appliances

For clarification on any of the points please contact  
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