



## Understand it

DOT in a nutshell

Get help

More detail ...

### Energy quiz

Setting priorities

Making change happen

## Apply it

## See examples

# Energy quiz

If a shopping trip involves driving a car to a shop that is 1 mile away, and then back again, the carbon emitted is equivalent to:

- A 1 kg product travelling:
- 260
  - 2,600 miles in a container ship.
  - 26,000

- A 1 kg product travelling:
- 26
  - 260 miles in a truck.
  - 2,600

- Producing:
- 2.5
  - 25 carrier bags.
  - 250

**Submit** →

[\(See full assumptions\)](#)

Considering the total UK energy produced in 2009:

- Heating private households account for:
- 3%
  - 12% of the total energy.
  - 20%

- Personal transportation accounts for
- 4%
  - 20% of the total energy.
  - 40%

- Covering every south facing roof with solar panels would deliver
- 10%
  - 50% of the total energy.
  - 100%

**Submit** →

[\(See full assumptions\)](#)

On average, how much do the following actions reduce the cost of home heating:

- Improving loft insulation
- 5%
  - 14%
  - 23%

- 1%
- Turning thermostat 1 degree down  5%
- 10%
- 5%
- Installing cavity wall insulation  12%
- 18%

**Submit** →

[\(Data source\)](#)

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### **In summary ...**

- UK energy consumption must drastically reduce in order to survive on renewable energy.
- The energy required to move a car a few miles is more than the energy required to send a 1kg product around the world in ships and lorries, because the energy-efficiency of freight transport is so much higher.
- Products that improve consumer behaviour related to car miles or home-heating can leverage energy reductions that are far greater than their own impacts.