

# Transformation of energy

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1. Match each form of energy with its description.

Energy form useful for humans	Description
a) Mechanical energy	1. Energy from the agitation of particles of matter
b) Thermal energy	2. Energy from the motion or state of a body
c) Radiant energy	3. Energy generated by electric current
d) Electrical energy	4. Energy carried by light

2. For each example, name its natural form of energy and an example of the form of energy it uses. Choose from among the terms in the box.

Electrical energy Fossil energy Mechanical energy	Wind energy Thermal energy Hydraulic energy	Radiant energy Nuclear energy
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Example	Natural form of energy	Form of energy in use (example)
Solar battery for a calculator		
Wind turbine		
Oil heating system		
Nuclear power plant		
Watermill		

3. Electricity is a form of energy that is widely in use these days. Here is a list of appliances that operate on electricity. Use the words in the box to answer the questions below.

Hair dryer Stove	Coffee grinder Lamp	TV set Food processor
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- a) Which of these appliances transform electrical energy into thermal energy?

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- b) Which of these appliances transform electrical energy into mechanical energy?

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- c) Which of these appliances transform electrical energy into radiant energy?

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