

## WIND POWER

**Practical  
ACTION**

## SOLAR POWER

**Practical  
ACTION**

## HYDROPOWER

**Practical  
ACTION**

## BIOGAS

**Practical  
ACTION**

Solar panels change light energy into electrical energy.

Solar power is a form of renewable energy as it uses light from the sun which means no greenhouse gasses are made during electric production.

In the UK solar panels are popular and are often placed on house roofs and energy is fed back into the national grid.

In developing countries solar lanterns are very popular as they give off light at night allowing children to study at home they produce up to 4 watts a night.



## Practical ACTION

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Wind Power uses turbines to changes the kinetic energy of the wind into electrical energy.

No emissions are produced from the wind turbine itself only during its manufacture.

In the UK there are now many large scale wind farms, they provide a source of renewable energy for the National Grid.

In developing countries many small scale wind farms are used, they can produce up to 10 kilowatts.



## Practical ACTION

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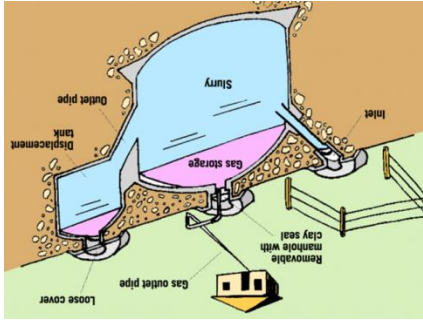
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Bio gas is produced from faeces like cow dung, mixed with water and left to ferment. It is broken down naturally by bacteria to produce methane.

Methane can be used for cooking and lighting.

Methane is used a lot in the UK yet using bio gas is a new and upcoming method for methane production.

In developing countries bio gas is a great source of energy as it is simple to produce.



## Practical ACTION

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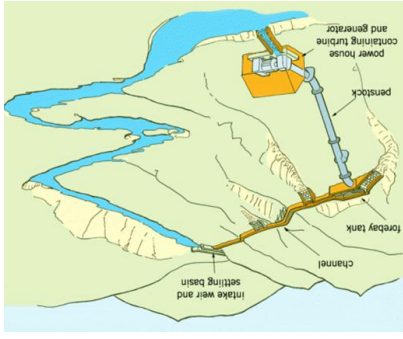
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Hydropower changes kinetic energy of the water flow to electrical energy.

Water is diverted from a river or stream and passes through turbines, which drive a generator and produces energy.

The UK has a few large scale hydro plants each can produce more than 5 megawatts

Micro-Hydros are now used by many developing countries to supply small villages with electric as they can produce up to 500 kilowatts



## Practical ACTION

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BIOMASS ENERGY

**Practical  
ACTION**

LAW OF  
CONSERVATION OF  
ENERGY

**Practical  
ACTION**

CURRENT

**Practical  
ACTION**

VOLTAGE

**Practical  
ACTION**



POWER

Practical  
**ACTION**

ENERGY  
EFFICIENCY

Practical  
**ACTION**



**Practical ACTION**

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**Practical ACTION**

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