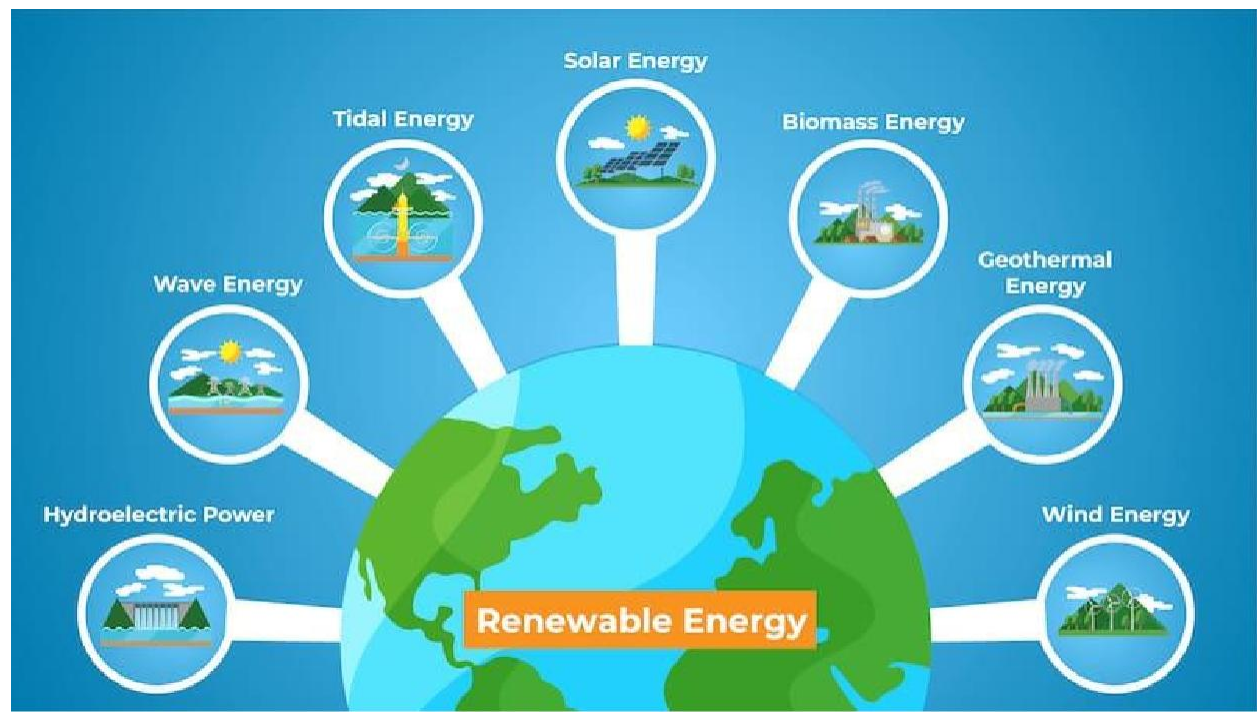




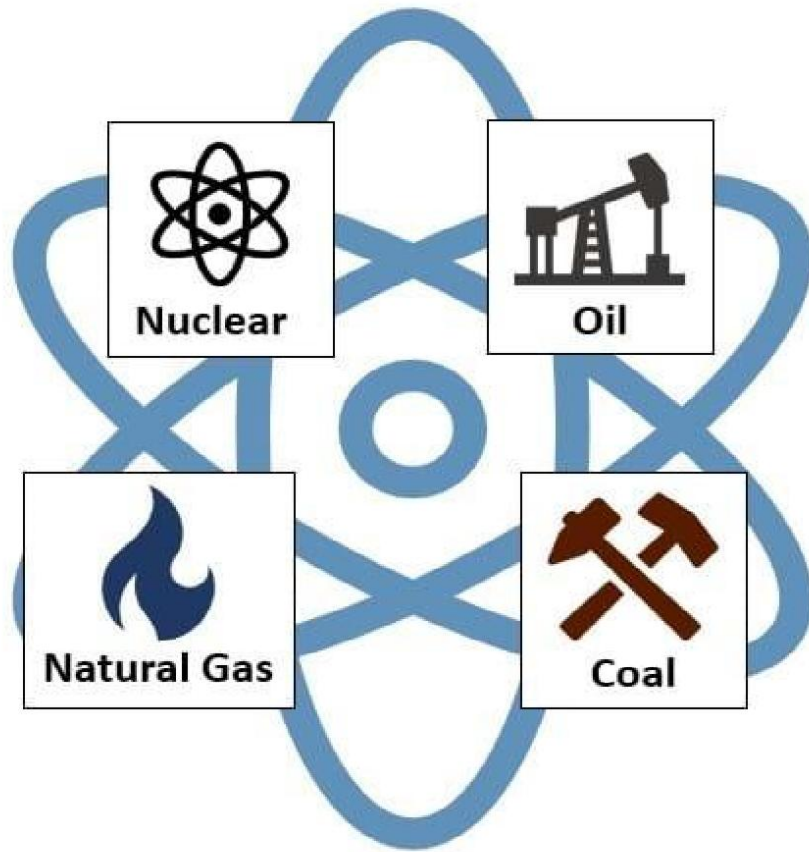
GANDHI SCHOOL OF ENGINEERING, BHABANDHA, BERHAMPUR

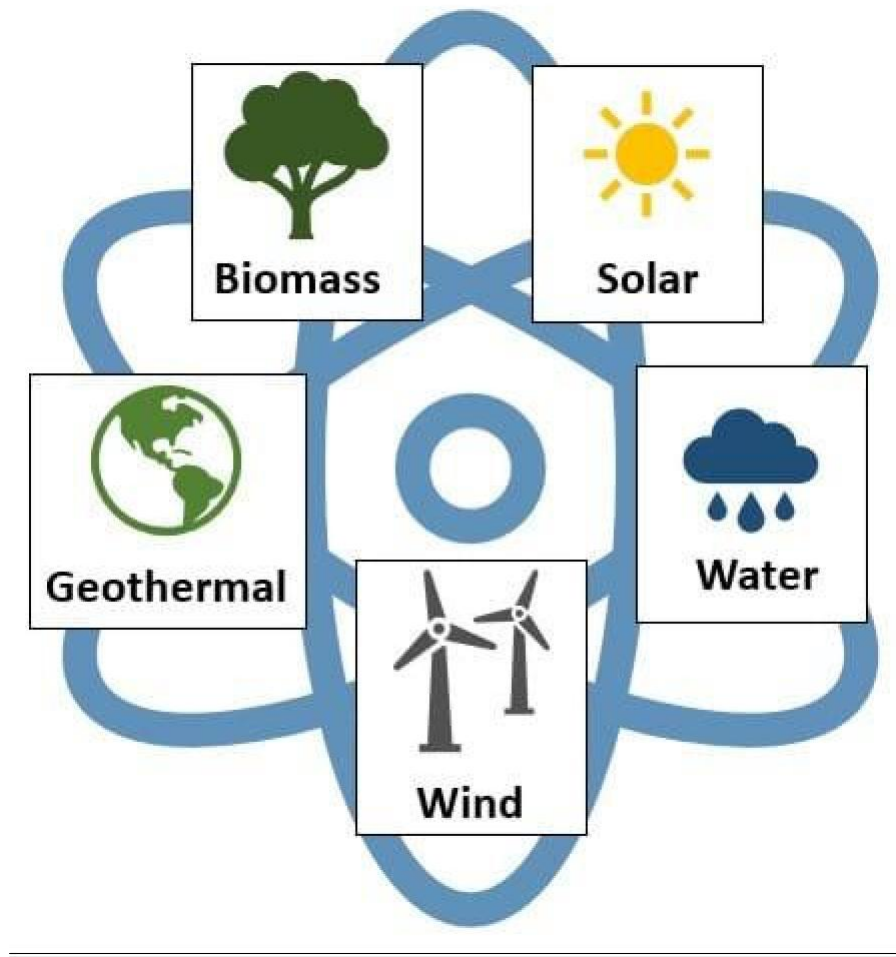
# TEACHING LEARNING MATERIAL OF RENEWABLE ENERGY SOURCES

PREPARED BY: PRAGATI SAHU



## RENEWABLE ENERGY





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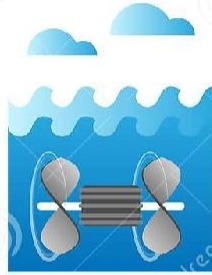
**NON RENEWABLE ENERGY**

# ENERGY SOURCES

## RENEWABLE ENERGY



Wind



Hydropower



Solar



Geothermal



Biomass

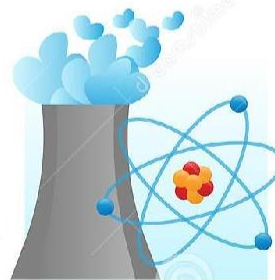
## NON-RENEWABLE ENERGY



Oil



Coal

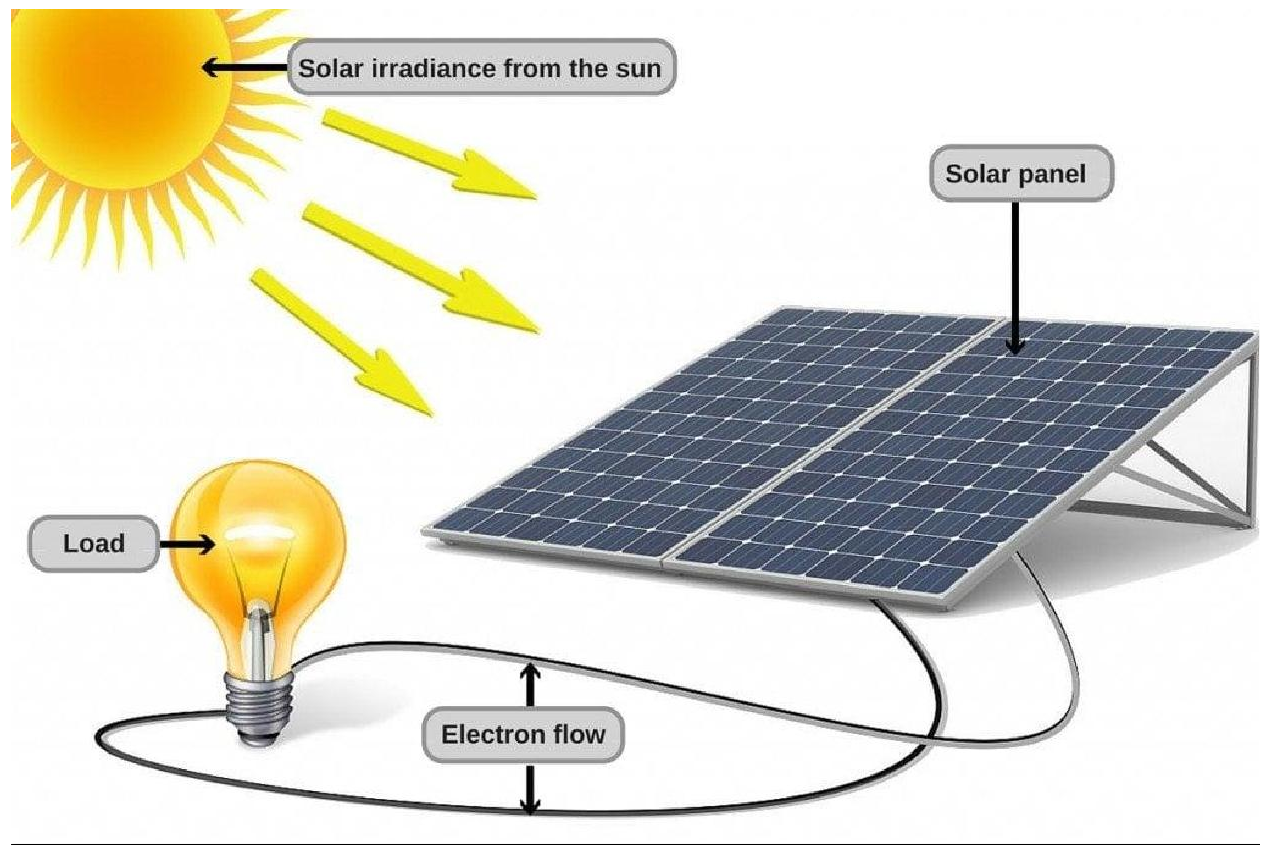


Nuclear



Natural Gas

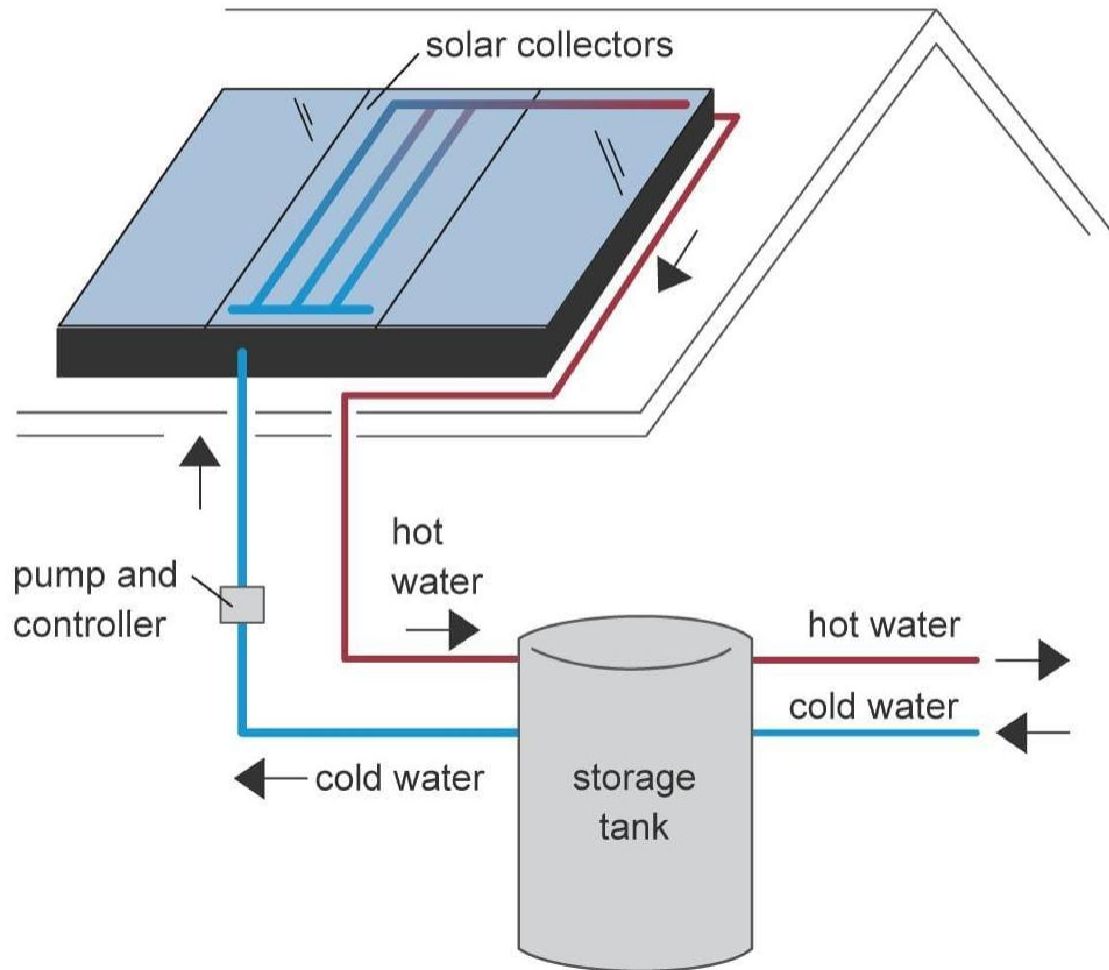
## DIFFERENCE BETWEEN RENEWABLE AND NON RENEWABLE ENERGY



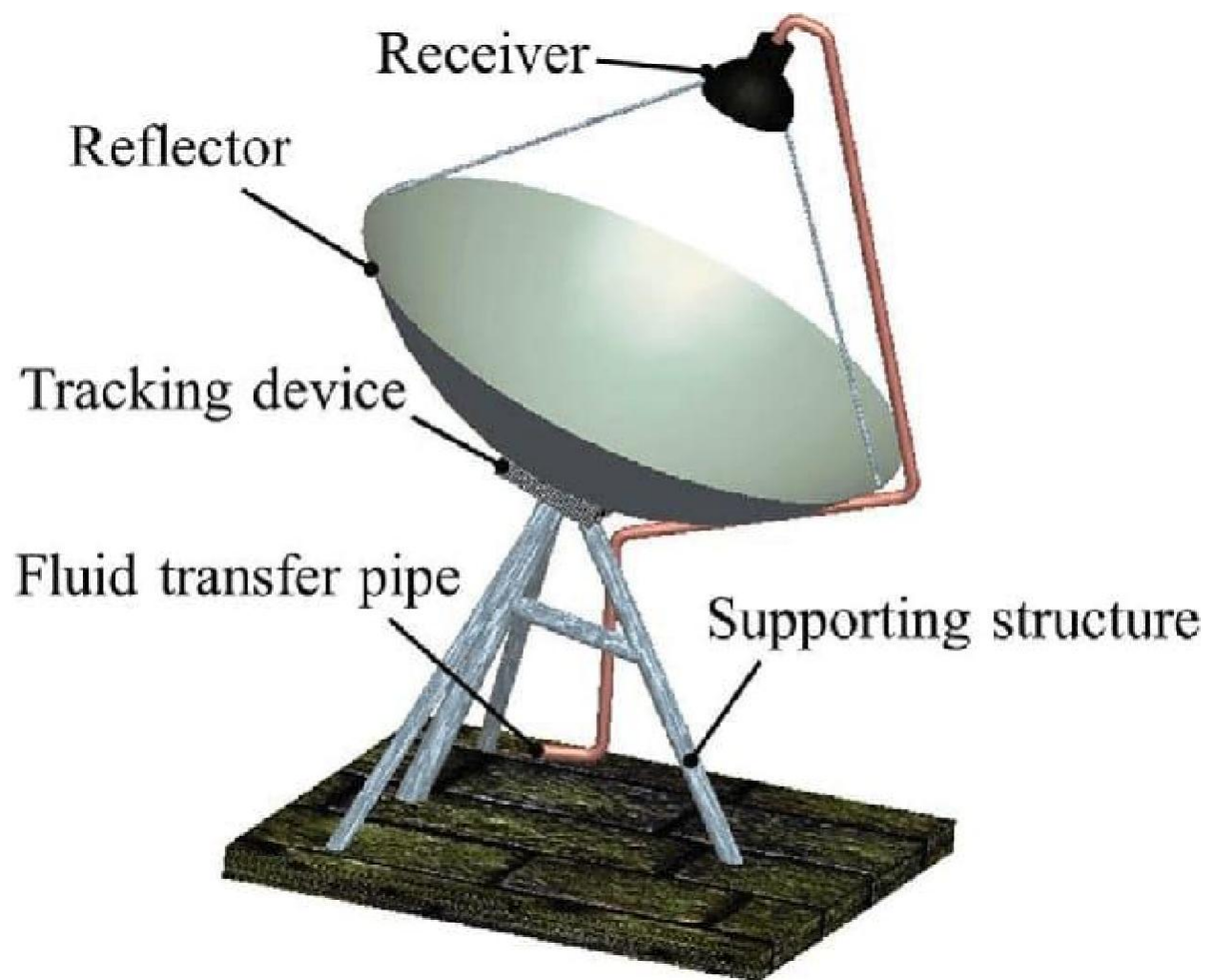
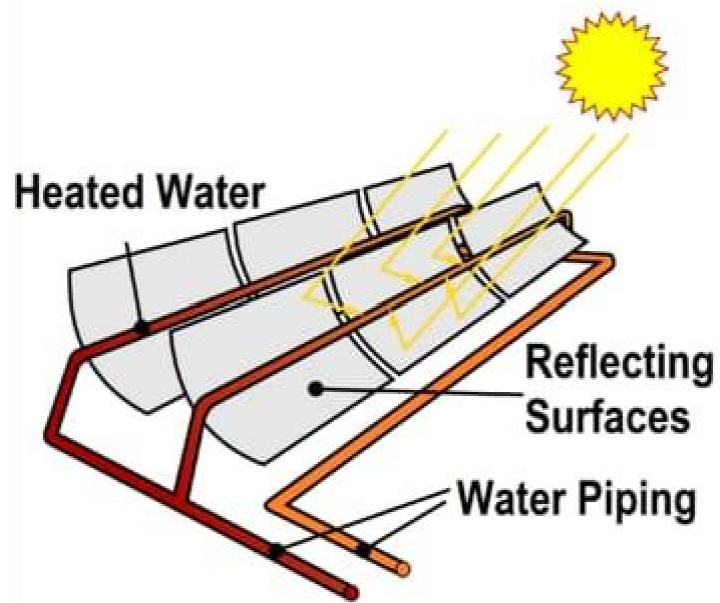
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**SOLAR COLLECTOR**

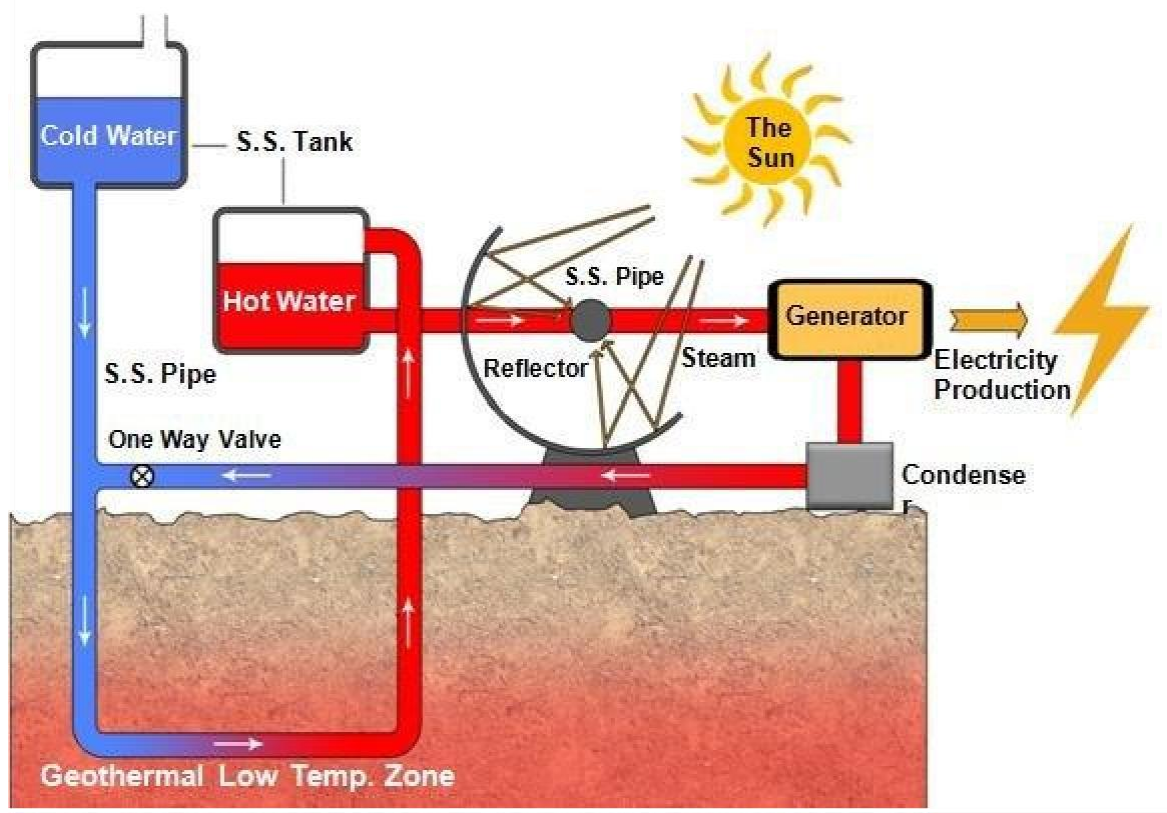
## Basic components of a solar water heating system



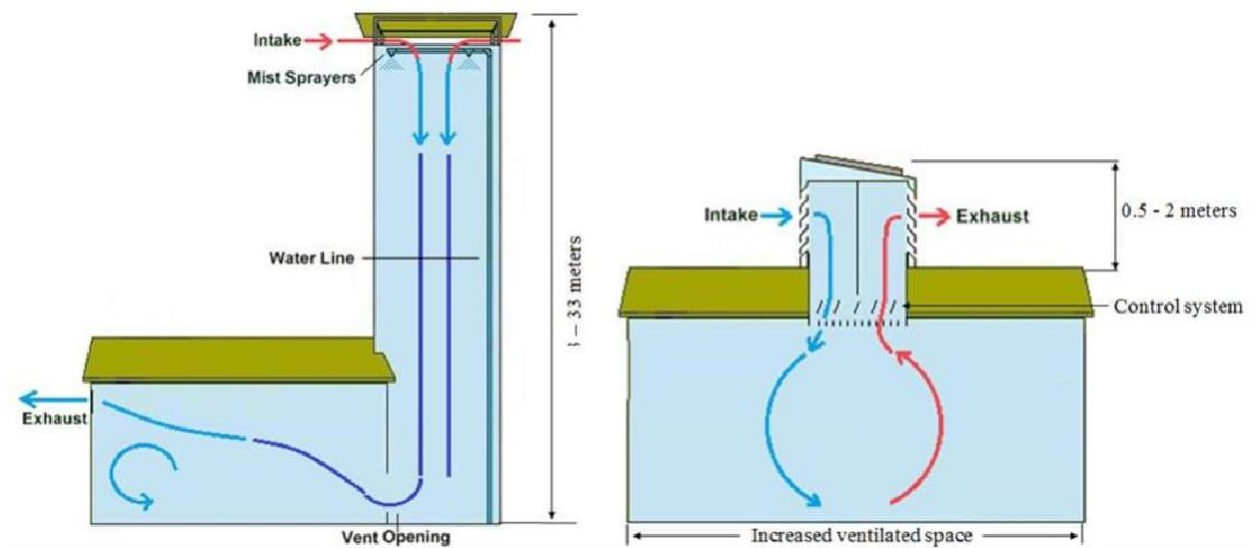






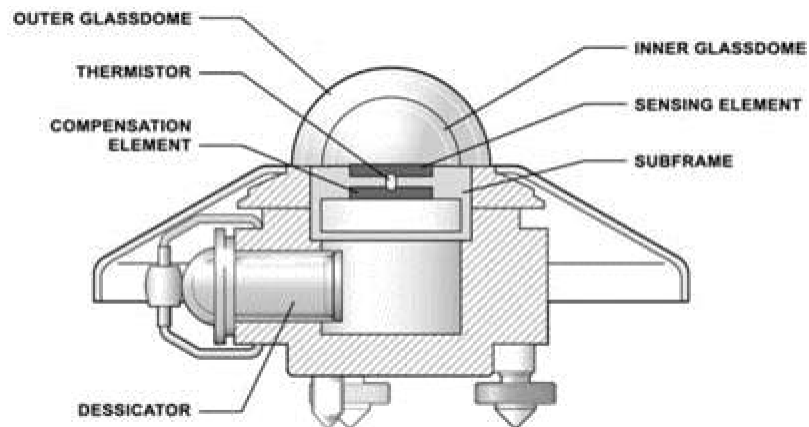
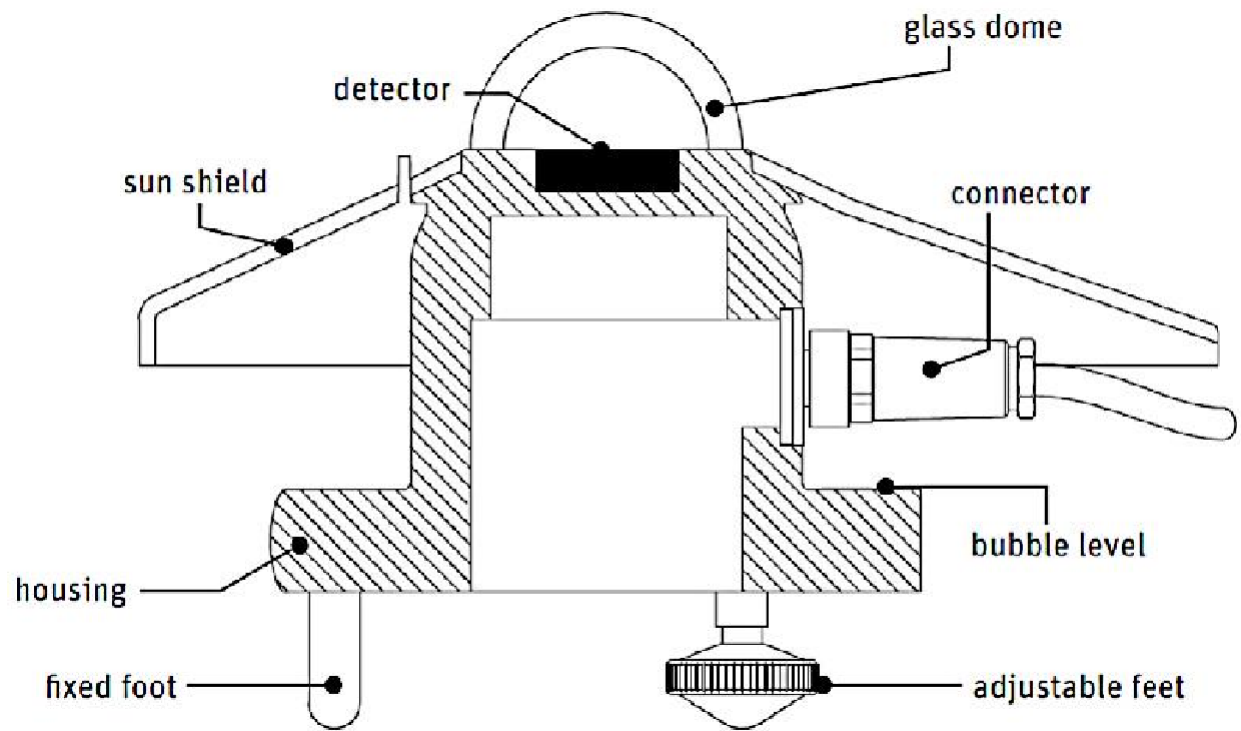


### LOW TEMPRATURE APPLICATION OF SOLAR ENERGY

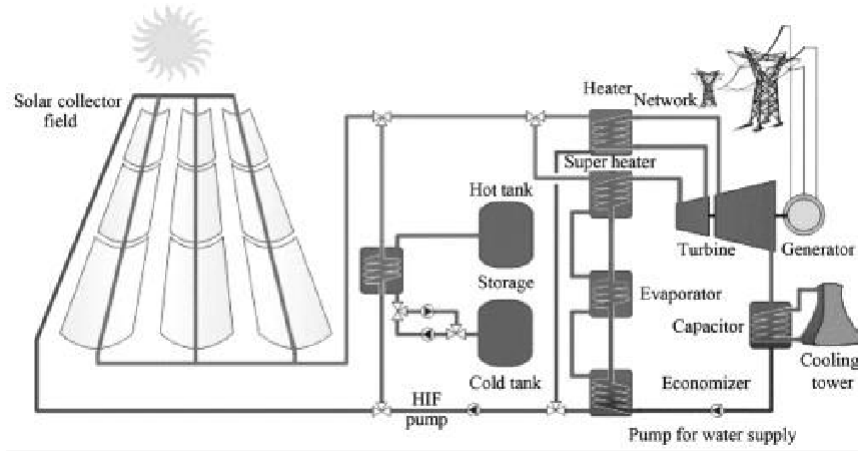
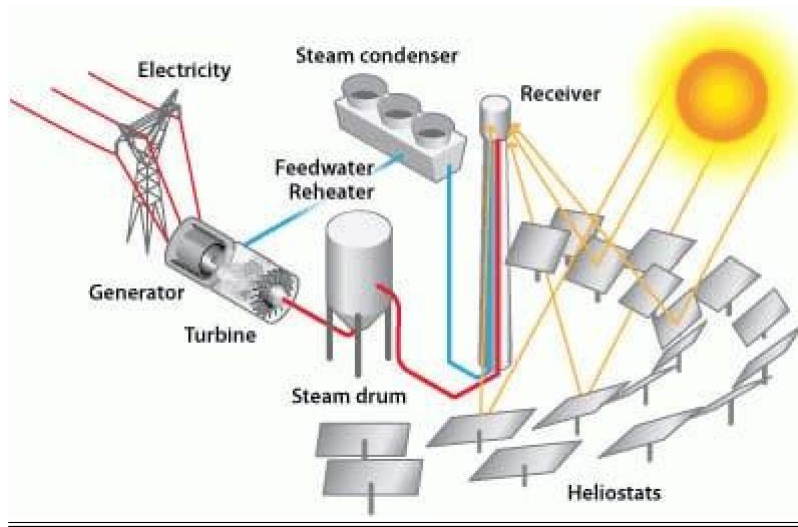


### PASSIVE SPACE CONDITIONING & COLLECTORS

## SOLAR RADIATION INSTRUMENTS

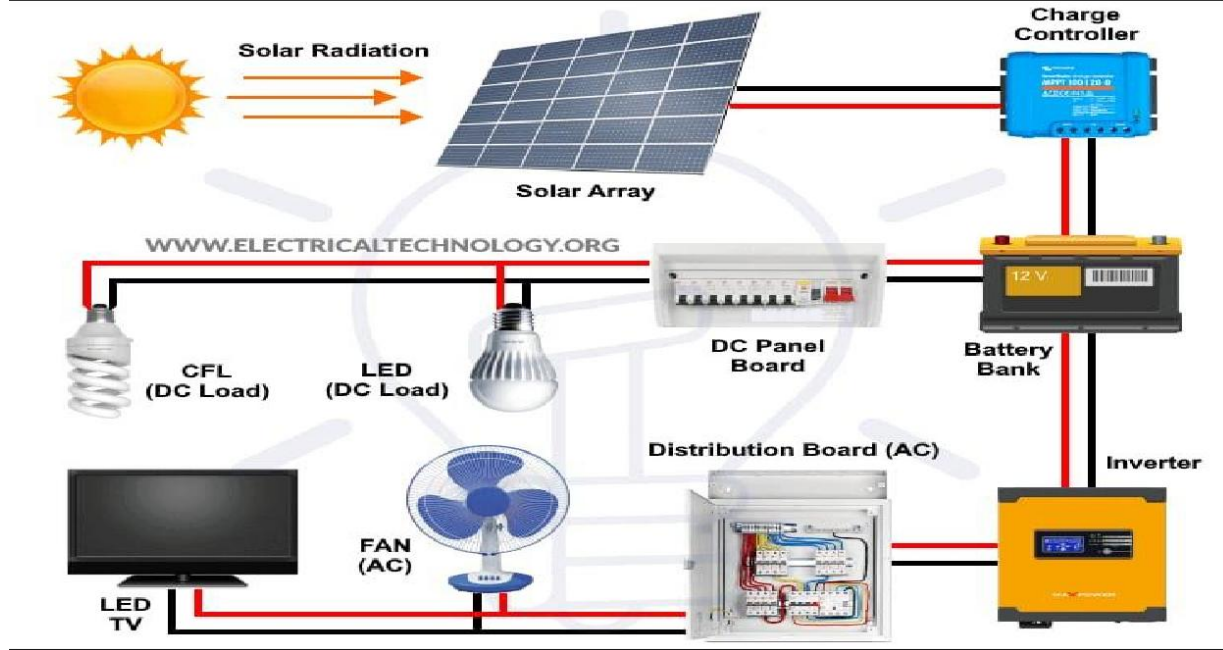


## SOLAR THERMAL PLANT

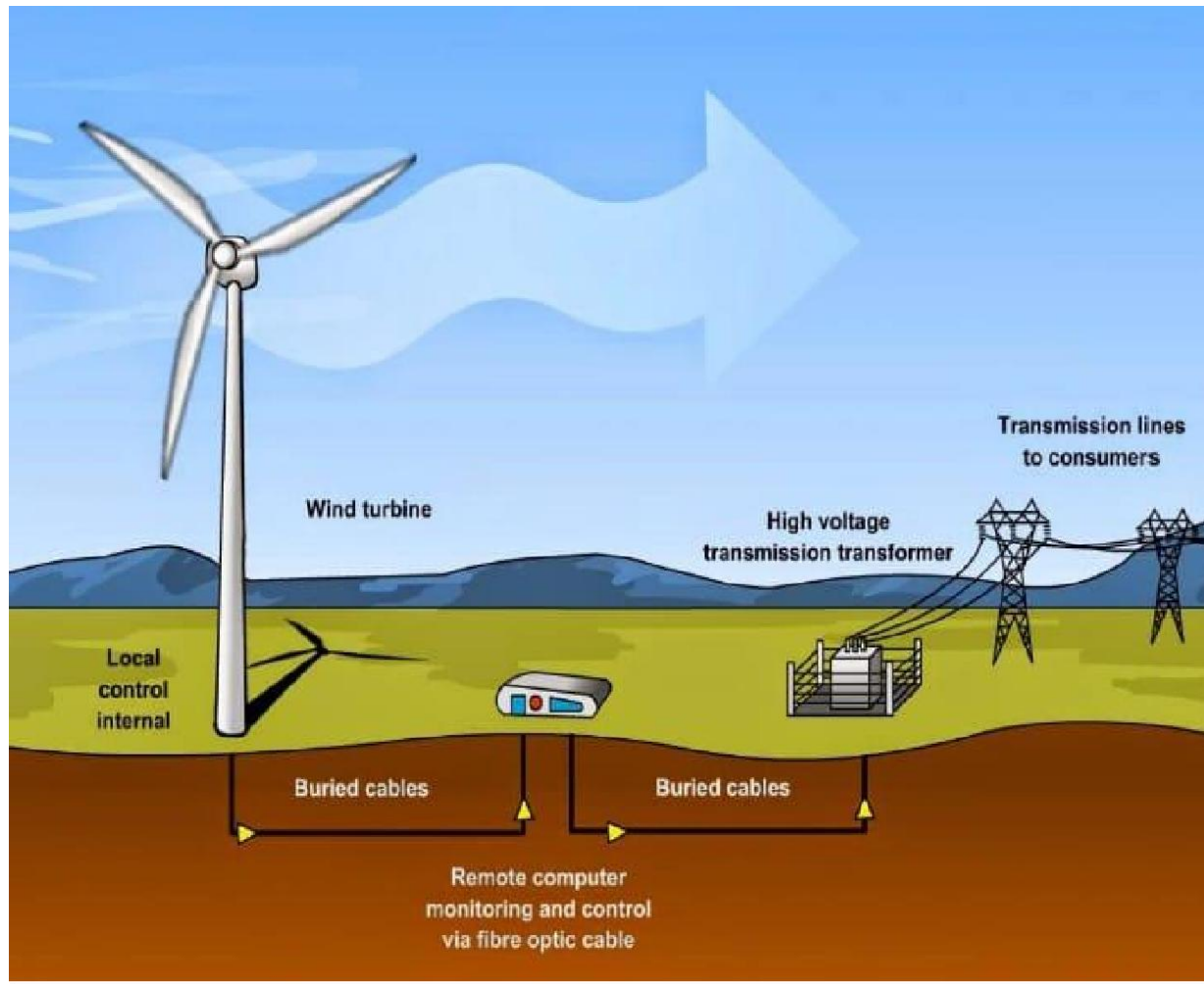


## SOLAR PHOTOVOLTAICS

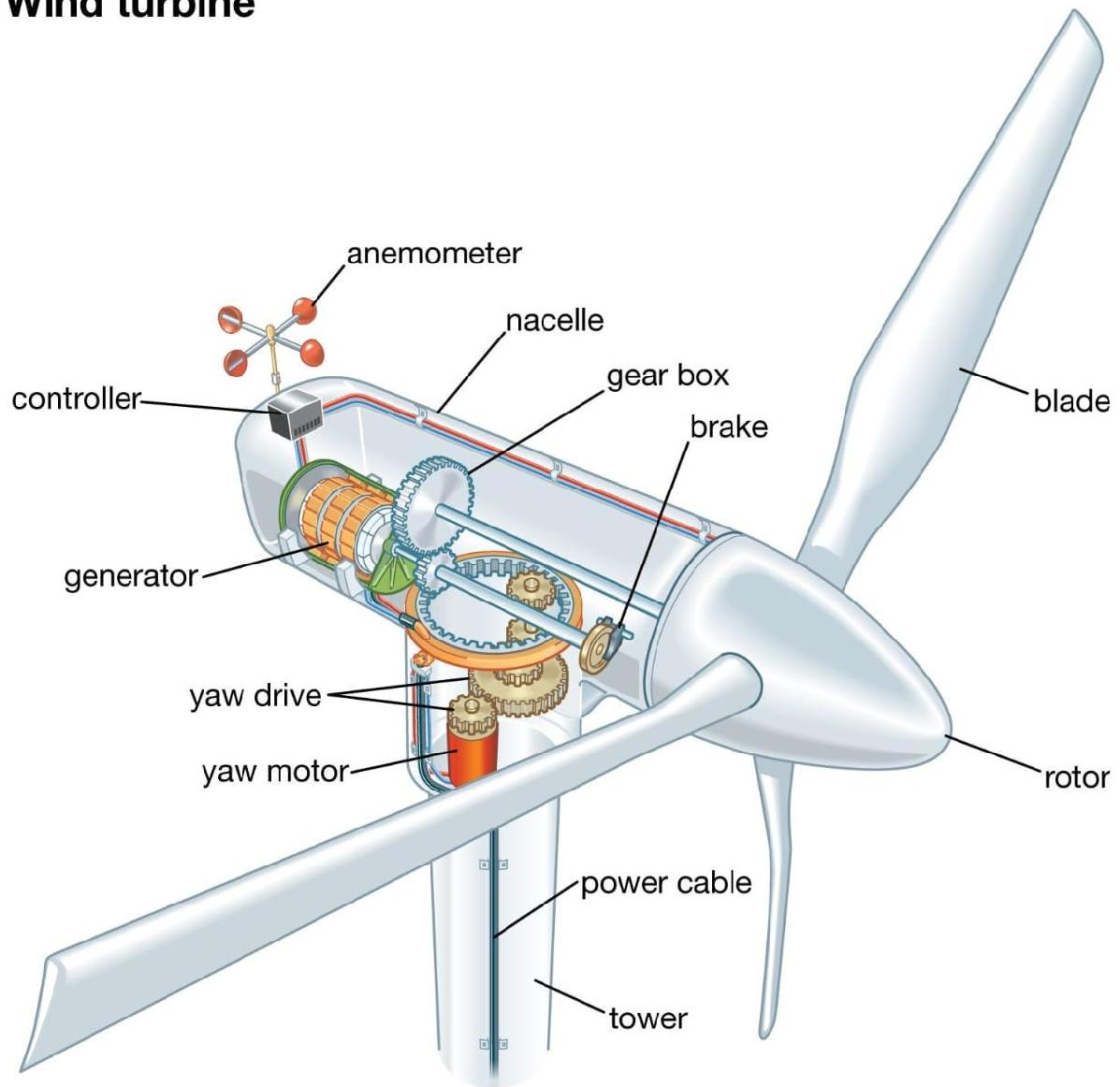
### How to Design & Install a Solar PV System



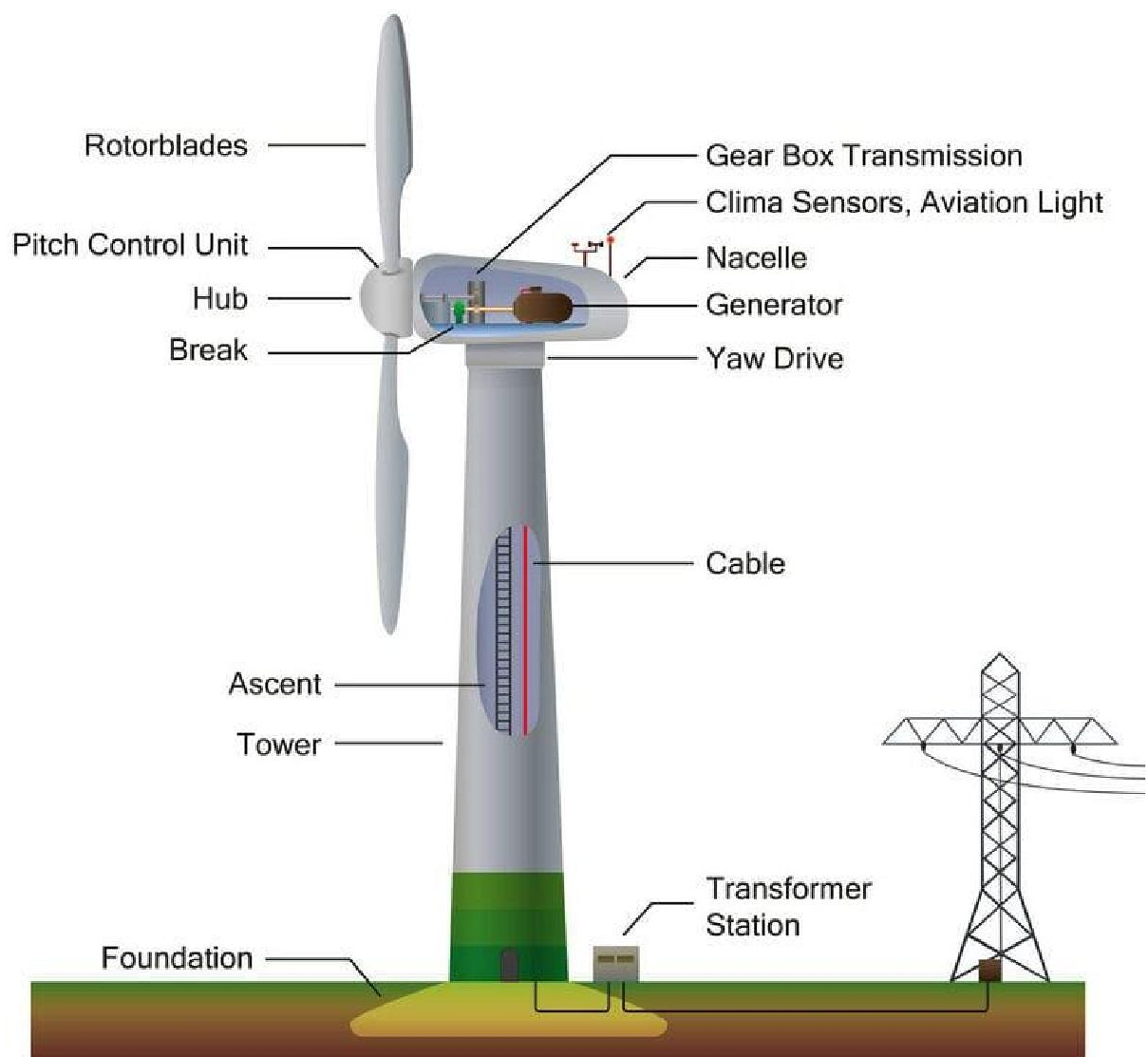
## WIND ENERGY



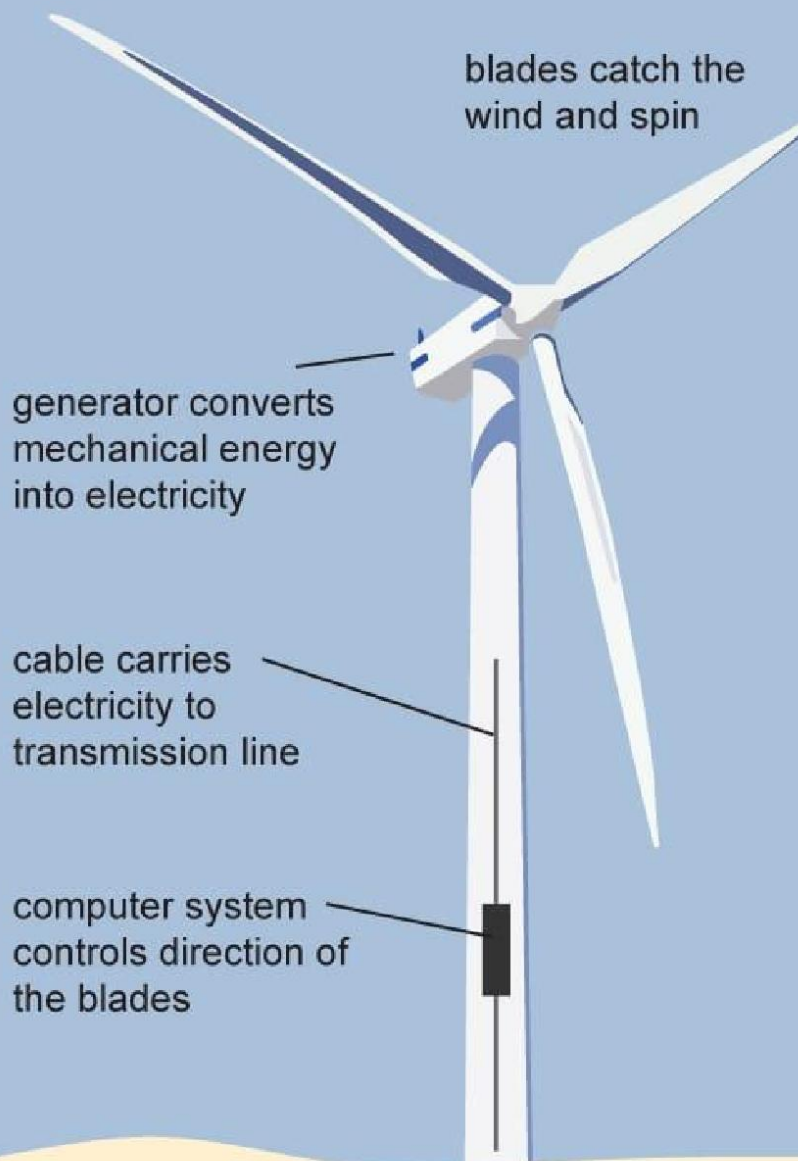
## Wind turbine







# Horizontal-axis wind turbine



Source: Adapted from National Energy Education Development Project (public domain)