

SIS-3 «GREENENERGY»

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ENERGY FOR LIFE



Energy Sources

Renewable

Non-renewable

natural energy sources which do not get used up. energy sources that cannot be replaced and will eventually run out.



Non-renewable Energy



Non-renewable energy is the more traditional source of energy and is most commonly known as fossil fuels. Examples of non-renewable energy are:

- Coal
- •Oil
- Natural Gas
- •Nuclear

Non-renewable sources of energy are much cheaper than renewable sources but are harmful to the environment.



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Renewable Energy (Green Energy)

There are many different forms of renewable energy:

- Wind energy
- Solar energy
- Bioenergy
- Ocean energy
- Hydroelectricity





Renewable Energy

Solar



Wind



Biomass



Hydrogen



Geothermal



Ocean



Hydropower



Uses:

Solar Power
Plant

Uses:

Wind Power Plant Uses:

- Biofuels
- Biopower
- Bioproducts

Uses:

• Fuel Cells

Uses:

- Geothermal
- Power Plant
- Heat Pumps

Uses:

- Tidal Power
- Wave Power
- ■Thermal

Uses:

■Hydropower Plant





The wind is a clean, free, and readily available renewable energy source. Wind energy is produced by the movement of air (wind) and converted into power for human use. Each day, around the world, wind turbines are capturing the wind's power and converting it to electricity. This source of power generation plays an important role in the world.

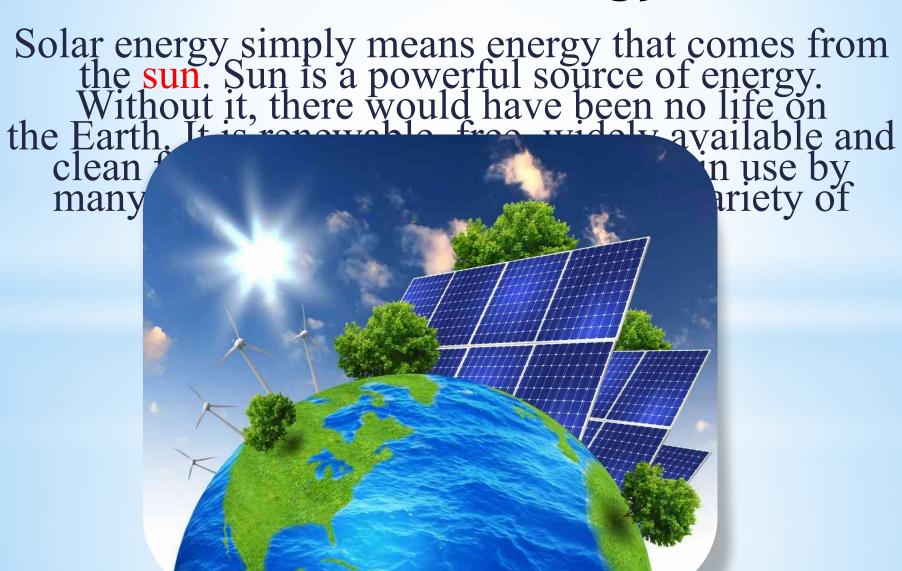
Advantages and disadvantages of wind energy

- unlimited stocks
- a free source of energy
- use does not pose a threat to nature, does not reduce resources, does not have negative consequences for human health

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- instability, instability of the source
- with huge capacities of wind flows, reception and processing are technically complex and ineffective
- noise, vibration during operation
- high cost of equipment and energy

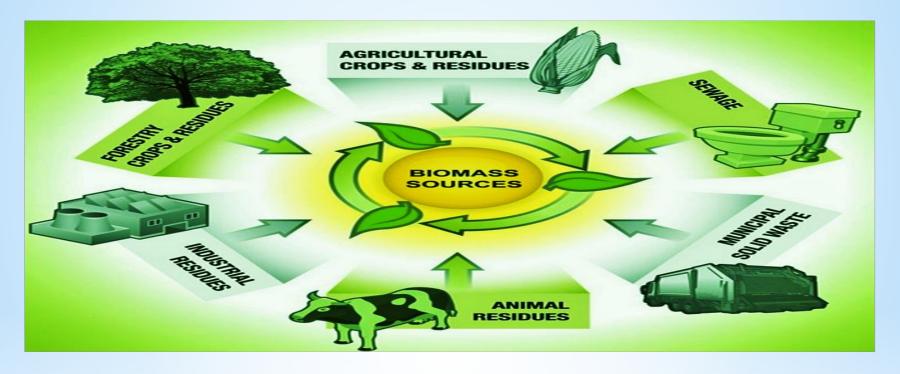
Solar Energy



Advantages and disadvantages of solar energy

- Renewability
- Profusion
- Noiselessness
- Innovative technology
- << = >>
- High cost
- Inconstancy
- Minor environmental pollution 11
- I ow power density

Bioenergy



Bioenergy is energy derived using organic material, especially plant matter, as fuel. The material burned or processed to produce bioenergy is named biomass. Biomass has been an energy source for as long as humans have used wood fires to warm themselves and cook food.

Ocean Energy

Ocean energy uses the power from the sea to create electricity. It uses energy from waves or from tidal currents.





Ocean energy is able to work continuously in almost any weather.

Hydroelectricity

Hydroelectric power was the first and simplest electricity generation technology. A dam is built to trap water, usually in a valley where there is an existing lake. Water is allowed to flow through tunnels in the dam, to turn turbines and thus drive generators. Hydro-electric power stations can produce a great deal of power very cheaply.



Green energy in Kazakhstan

About 72 % of electricity in Kazakhstan is produced from coal, 12.3 % - from hydro resources, 10.6 % - from gas and 4.9 % — from oil. Thus, the four main types of power plants generate 99.8% of electricity, and alternative sources account for less than 0.2%



Renewable Energy

"The future of our planet is in our hands."



In conclusion, traditional energy resources are not infinite. According to some forecasts, their reserves can be critically reduced even during my life. Therefore, the transition to renewable energy is inevitable.

Thanks for attention