



Алматинский университет энергетики и связи имени Гумарбека Даукеева

ИНОСТРАННЫЙ ЯЗЫК

Electricity or Renewable Sources of Energy

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Key Renewable Energy Sources



Solar Power

- Photovoltaic
- Solar-thermal



- Wind Power
- Onshore
- Offshore



Biofuels

- Agricultural crops (1st Gen)
- Cellulosic feedstock (2nd Gen)
- New feedstock such as Algae (3rd Gen)



Hydro Power



Solar Power

- Generally captured in two forms.
- Remains an expensive method of generating electricity.
- Advances in technology and support from certain governments.





Wind Power

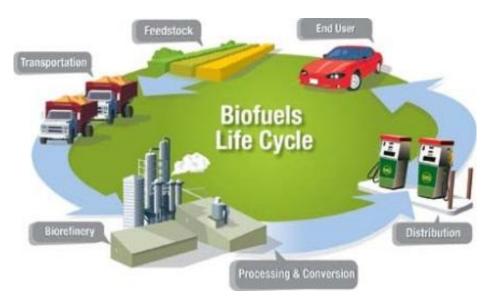
- Converts kinetic energy of wind to electrical energy.
- Renewable of choice in Europe and the United States.
- Competitive alternative to more traditional methods of power generation.





Biofuels

- Produced through contemporary biological processes, such as agriculture.
- Ethanol is an alcohol distilled from plant material (corn in the U.S., sugar cane in Brazil, wheat in Europe) and used as gasoline substitute or blend stock.
- Biodiesel is produced by the transformation of animal fat or vegetable oil into a conventional diesel substitute.





Hydropower

- Power derived from the energy of falling water or fast running water
- Largest global contributor amongst all renewable energies.
- Most mature of renewable energies





Sources

- <u>https://en.wikipedia.org/wiki/Renewable_energy</u>
- <u>http://www.theguardian.com/business/2016/feb/14/the-innovators-how-your-coffee-can-light-up-your-barbecue-and-boiler</u>
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