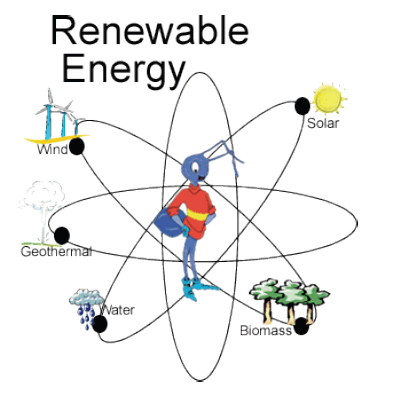
Climate Change Activity

Renewable energy sources can be replenished in a short period of time. The five renewable sources used most often include hydropower (water), solar, wind, geothermal, and biomass.



Renewable energy's impact on the world's energy picture is significant. Many important events have occurred during the history of using renewable sources to generate electricity – but the overall consumption from renewable energy sources has declined by about 15 %. Temperatures play a big role in the need for energy.

The use of renewable energy is not new. Five generations (125 years) ago, wood supplied up to 90 percent of our energy needs. Due to the convenience and low prices of fossil fuels, wood use has fallen. Now, the biomass which would normally present a disposal problem is converted into electricity (e.g., manufacturing wastes, rice hulls, and black liquor from paper production).

The deregulation and restructuring of the electric power industry could have a major impact on renewable energy consumption. Demands for cheaper power in the short term would decrease demand for renewable energy, however electricity consumption increases yearly therefore the emissions increase yearly. The equation used to calculate that is shown below:



**A summary of energy sources**

Temperatures for the 20th century

|  |  |  |
| --- | --- | --- |
| **Years** | **Average\* temperature (°C)** | Insert graph |
| 1901 - 1910 | 12.6 |
| 1911 - 1920 | 12.4 |
| 1921 - 1930 | 12.8 |
| 1931 - 1940 | 12.85 |
| 1941 - 1950 | 12.87 |
| 1951 - 1960 | 12.88 |
| 1961 - 1970 | 12.91 |
| 1971 - 1980 | 12.93 |
| 1981 - 1990 | 13.2 |
| 1991 - 2000 | 13.7 |
| 2001 - 2010 | 13.9 |
|  | Insert calculation |

Completed by:       Created by: Insert author field