**Solar**

**Advantages**

* **No CO2 or other air pollutants**
* **No fuel cost**
* **Easy to install**
* **Little environmental impact when located on buildings**

**Disadvantages**

* **Unreliable as sunlight varies depending on weather, time of day and time of year**
* **Expensive**

**Hydroelectric**

**Advantages**

* **No CO2 or other air pollutants**
* **No fuel cost**
* **Reliable**
* **Immediate response to change in electricity demand**
* **Cheap**

**Disadvantages**

* **Can affect wildlife and natural water flow**
* **Can only be located in suitable places**

**Tidal and wave**

**Advantages**

* **No CO2 or other air pollutants**
* **No fuel cost**
* **Reliable**

**Disadvantages**

* **Can affect marine life**
* **Expensive**

**Wind**

**Advantages**

* **No CO2 or other air pollutants**
* **No fuel cost**

**Disadvantages**

* **Can be a threat to birds and bats**
* **Large and noisy**
* **Unreliable**
* **Can only be located in suitable places**

**Biofuels**

**Advantages**

* **Reliable**

**Disadvantages**

* **Release CO2**
* **Loss of habitat and space to grow food crops due to large amount of land needed**

**Geothermal**

**Advantages**

* **No CO2**
* **No fuel cost**
* **Reliable**

**Disadvantages**

* **Can sometimes release harmful gases**
* **Can only be located in suitable places**

**Nuclear**

**Advantages**

* **No CO2**
* **Can produce large amounts of electricity from a small amount of fuel**
* **A good way to use up uranium and plutonium, rather than in bombs!**

**Disadvantages**

* **Waste remains radioactive for thousands of years**
* **Can be very dangerous if things go wrong**

**Fossil fuels**

**Advantages**

* **Cheap (for now)**
* **Easy to use**

**Disadvantages**

* **Will run out someday**
* **Releases CO2 and other air pollutants**
* **Prices are rapidly increasing**