**Renewable Energy**

**I. Energy**

1. Important part: lives

2. Use: eat /travel / work / communicate

3. E. comes from: ff / RE / N / Biomass

**II. Energy sources**

1. Ff: decomposition of living material for millions of yrs.

A. Types: Coal / oil / natural gas

2. Biomass: converts plants into biometric materials: produce E

3. NE: released during N fusion

4. RE: comes from sources not depleted when used (e.g. wind or solar power)

**III. Differences**

|  |  |
| --- | --- |
| **FF** | **RE** |
| * Expensive $ * Pollute * Can´t be reused * Depleted within the next 50-100 years * Produces environmental impact   FF effect:   * Global warming * Acid rain * Oil spills * Air quality deterioration   N/B: Biomass and N have similar issues | * Free * Not pollute * Can be reused * Unlimited * RE sources:   sunlight  wind  rain  tides  waves  geothermal heat |

**IV. Solutions**

1. Harness RE

A) No need to rely on other nations

a) This caused problems: war, famine, political instability

2. Super Grid

a) We have the technology to be 100% renewable reliant

b) bt infrastructure ff dependant = Convert infrastructure