

## Sustainable Renewable Energy BIO 1308 Project

What is renewable/sustainable energy?

Technologies that promote sustainable energy include renewable energy sources, such as hydroelectricity, solar energy, wind energy, wave power, geothermal energy, bioenergy, tidal power and also technologies designed to improve energy efficiency.

What type of technologies improve energy efficiency?

- Ex. Appliances(TV, stove's, microwave)
- Light Bulbs( LED)

**Assignment:** How will you implement energy savings into your home?

- Create a small summary of how you are going to conserve energy at home.
  - One page
  - Double Spaced
  - MLA format

Imagine you are going to convert over to LED light bulbs instead of regular light bulbs, take a tour of your house calculate how many bulbs you have.

- Create a table of how much it will cost to replace regular light bulbs with LED bulbs
- Include the efficiency per bulb
- How much energy will be conserved?
- Where there be a pay off? & how long will the payoff take?

This will be due no later than **November 28<sup>th</sup>**, hard copy of the summary & table must be turned in.

\*\*\*\*Worth total of **50 points\*\***

**2<sup>nd</sup> part assignment:** Within your pre-chosen groups pick a specific type of sustainable energy

- Create a poster, including pictures and graphs as to why your type of sustainable energy is the best
- Include the benefits of the sustainable energy, and as well include if the energy has any types of downfalls.
- This will be presented the week before finals in lab{ **Dec. 2<sup>nd</sup>**}
- Each group member must contribute their own information during the presentation to receive full credit

\*\*\*\*\*Worth total of **50 points\*\*\***