

Energy Plan: Timeline and Diagram

Phase one: Biomass fuels (two months)

The community will largely rely on available natural sources to burn. Sources such as wood, plant sources, and biodegradable waste are all sources of chemical energy which can be converted to heat energy.

Math for calorimetry:

During this time, the community will build irrigation canals.

Phase two: Kinetic energy from water sources

By this time, the community will have built canals to use for irrigation. In order to provide water to the different parts of the settlement, the potential and kinetic energy of the water will need to be considered in order to provide water to areas at different elevation.

Math and calculations based on topography:

Additional sources of energy:

- The irrigation system will provide water to houses as well as plots of land dedicated to farming.
- This will allow the communities to grow sources of food, energy crops such as switchgrass, as well as electrolytic crops to use during phase 3.
- During this phase, the community will also find metals to use to construct a simple resistive circuit in phase 3.
- Using heat energy generated from burning sources of chemical energy, the community can generate steam which can generate mechanical energy via steam turbine.

Phase three:

At this point, the community will have constructed simple resistive circuits using electrolytic crops and sources of metal.