

Project title: GMO, Light and Energy

Project type: Video

About My Project: Sumbawa is a region located in Eastern part of Indonesia. Every year, dry season with temperature up to 38 degrees Celsius, last longer than wet season. This abundant of light resource is a potency to be developed in order to sustain Sumbawa development. Utilization of bacteria and light is an example for creating alternative renewable energy. E.coli bacteria with addition of chlorophyll-a gene could produce hydrogen gas (H₂) through photosynthesis process with the aid of sunlight. The hydrogen gas produced by the photosystem can be used to produce biofuel substrates. Portable fermentor then used to produce and stored electricity.

<http://youtu.be/znei-Jus64o>