

## **Bio Farm With Self Sufficient Energy Creation**

The technology is a collection of historical and modern farming techniques and technologies that were brought together into a unified process, designed to reduce farming production costs by as much as 25%.

### **Salient Features**

The use of a biogas generator that uses animal and plant waste to produce a biogas fuel that contains methane. The fuel is used to generate electricity, and heat a cooking stove or water in support of a traditional crop and animal farm.

Cattle are raised and the milk is sold. Grains are grown as a crop and as feed for the cattle. The grains are also used for the production of bread products. Vegetables are also grown. The waste from each of these three endeavors is then used in the biogas generator to complete the self sufficient cycle.

By reusing farm waste to generate the biogas, operating costs are reduced, and animal wastes are significantly reduced. This has the added benefit of reducing odor, disease, the potential for ground water contamination, and greenhouse gas emissions.

### **Major Application / End Users**

Small farmers to allow them to implement small scale biogas plants that can dramatically lower the cost of their farming operations.