



Schematic Diagram of Solar/Biogas Hybrid System

Byproducts of the biogas system: (for 100 Cattle)

1. Biogas generator: 3 kW (Additional Biogas generator can be added)
2. Hot water: 400 Litres per day
3. Organic Fertiliser: 200 kg per day
4. Cooking gas for local homes: 15 kgs per day
5. Appliances:
 - 1000 CFT Cold Room to store Vegetables, Fruits, Flower & Egg storage in Poultries
 - Milk Chiller for storing milk & Refrigerator for storing medicines in dairy
 - Deep Freezer for
 - Storing vaccines in Health Centres and Hospitals
 - Storing fish in fisheries

Other appliances: TV, Set Top Box, PC, Modem, Mobile Chargers, Fans & Lights

- Solar Power: As required by loads - Customised for individual communities
- System can be remotely monitored (IOT enabled)
- Can be integrated with E Market
- iGrid automatically prioritises running of appliances from Solar Power, Biogas Power or Grid Power
- No Battery
- > 95% annual energy savings

Warranties:

- 10 year for Solar Panels, Biogas Engine & Compressors in cooling equipments.
- Further 15 years Performance Warranty for Solar Panels
- Expected life of the system is 20 years with preventive maintenance.