Worksheet Module 4 Week 3B: Technologies for energy recovery from organic waste

1. What should be the treatment objectives in terms of caloric value and energy recovery?

2. What suitable technologies and machines are available locally? What has been the experience with them?

3. What is the level of performance and efficiency of the different technologies?

4. Are there resource constraints related to labour, land, energy or other factors of production?

5. If there is a break-down in the plant, are capacities and resources available for the timely repair and maintenance?

6. Plan your own technology system for biogas recovery or for production of briquettes

- Sales volume (units/day)

- Determine the capacity of the system e.g. the volume of the biogas reactor, the number of kilns and presses for the production of briquettes

- Calculate the time of a production cycle (days) (Pre-treatment (x days) + Principal treatment (x days) + Value addition (x days)

- Describe the specifications of each treatment step: pre-treatment, principal treatment and value addition

	Type of technology	Capacity	Machinery & equipment needed
Pre-treatment:			
Principal treatment:			
Value addition:			