

Biogas Research Team

Facilitators questionnaire – Field survey 2017

1. Basic and Regional Information:

1.1 Name _____

1.2 Region _____

1.3 How would you describe your region?

Feeding production region (for pork farming)

Fruit growing region Grain growing region Livestock processing (pigs, poultry)

Forest products Non-timber forest products Other, specify _____

1.4 How many years of experience do you have as an extension worker? _____
as a mason? _____

1.5 How many BGP owners do you take care of? _____

1.6 What is the frequency of visits of BGP owner per month? _____

1.7 Who provided you with training regarding BGP? AFFEC NGO, specify _____

Private company Different, specify _____

1.8 How much time (days) the training took? _____

1.9 Have you received a certificate from your training? No Yes, specify _____

1.10 Do you have the opportunity to meet other facilitators/extension workers?

No Yes, how often do you meet them _____

1.11 What are your opportunities to study more and get new information about the technology?

1.12 Please, describe your weekly common activity? (i.e. training people, consultations, providing help with building, maintaining)

2. Process of gaining a BGP

2.1 Please, describe (in detail) the process of requirements how farmers gain a BGP (including parameters, requirements (criteria, animals, co-finance), administration procedure incl. approving):

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2.2 How many days does the basic training about BGP management for BGP owners take?

_____ (days of training)

3. Life Cycle of Biogas Plant

3.1 Please, describe (in detail) the process of BGP construction (including preparation, construction):

3.2 How many workers are usually involved in the preparation of the terrain for the biogas plant?

_____ workers

3.3 How many workers are usually needed to build the biogas plant? _____ workers

3.4 How many days do workers usually work to finish the biogas plant? _____ days

3.5 How many bricks are usually used in the construction? _____ bricks

3.6 How much cement is usually used in the construction? _____ kilograms

3.7 How much sand is usually used in the construction? _____ kilograms

3.8 How much water is usually in the construction? _____ litres

3.9 What is the lifespan of the biogas plant? _____ years

3.10 What do you advice farmers to do with the biogas plant at the end of its life?

3.11 Who is responsible for the biogas plant when it reaches the end of its life?

Owners/households Government institutions (AFFEC) Other, specify _____

4. Transport of materials:

4.1 How the construction material is transported to farmers in your area?

Farmers themselves Masons Construction company Other (please, specify _____)

4.2 Are there enough available possibilities in the area of Hue to acquire all necessary materials and components of the biogas plants?

Yes No

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4.3 Do farmers need to go to the city for materials and components of the biogas plants?

Yes No

5. Problems with biogas technology

5.1 Here is a list of possible problems. Please write your advice to the problem. If you have been asked to advise the problem, please write if the owner acted according to your advice, managed to fix and how many times somebody asked you (per a year).

Problem	Your advice	Done according to your advice? (Yes / No)	Managed to fix? (Yes / No)	How many times (a year) have you experienced this problem?
Insufficient biogas production				
Gas leakage (tank, holder, inlet, outlet)				
Insufficient input (not enough animals)				
Problems with composition of input (pH and C/N ratio)				
Problems with gas pressure (unstable, low)				

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Water condensate (gas supply system)				
Process breakdown (stopped working)				
Malfunction of a biogas cooker				
Malfunction of biogas lamp				
Health hazard (i.e. during cleaning)				
Unpleasant odour (around biogas plants)				
Bad smell of biogas (using the gas cooker)				
Gas combustion (poor flame, too much biogas in mix)				
Low quality and amount of digestate				

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Biogas plant owner doesn't follow your advice				
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5. Services:

5.1 Do you offer advice when someone is interested in acquiring a biogas plant?

Yes No

6. Other energy sources:

7.1 What are the major uses of electricity?

- 1) _____
- 2) _____
- 3) _____

7.2 What is the price for LPG (bottle of x m³)? _____ / VND

8. Other comments / information:
