

## Attachment E

# Results of Evaluation Forms/ Survey Instruments

## **Results of Evaluation Forms / Survey Instruments**

At the end of the conference, the delegates were requested to accomplish 2 Questionnaires:

1. A Project Information Form; and
2. A Conference Evaluation Form

Copies of these forms and the summary of their results are shown on the following pages:

**Conference on**

**MITIGATING GREENHOUSE GAS EMISSIONS FROM LIVESTOCK AND AGRO-INDUSTRIAL WASTE**

15-16 October 2009, The Peninsula Manila

**Complimentary Delegate Registration Form**

*(Confirmed participant will be given a conference kit)*

My regrets

Attending

Name of Delegate: \_\_\_\_\_

Position: \_\_\_\_\_

**Project Information Form**

Dear Delegate,

To allow the organizers to gauge the potential benefit to your LGU/company of the Programmatic Approach to CDM development, please describe potential projects (methane sources) in your jurisdiction/area. Please find below templates for some project types and a generic template for other sources.

<b>Slaughterhouse</b>	
Capacity: Pigs Cattle Poultry	
Type of waste treatment	
Year established State if still in planning stage	
Location	

<b>Dumpsite / Landfill</b>	
Years in operation	
Estimated total MT of waste	
Daily Waste load MT/day	
Year dumpsite/landfill was constructed	
State if still in planning stage	
Location	

**Conference on**

**MITIGATING GREENHOUSE GAS EMISSIONS FROM LIVESTOCK AND AGRO-INDUSTRIAL WASTE**

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<b>Domestic Wastewater Treatment Facility</b>	
Serving how many households	
Type of treatment Facility, Aerobic? Anaerobic? Ponds and Lagoons?	
Year facility was constructed State if still in planning stage	
Location	
Volumetric Flowrate	

<b>Piggery</b>	
Capacity: Sow Level	
Type of waste treatment	
Year facility was constructed State if still in planning stage	
Location	

<b>Others (please state)</b>	
Capacity:	
Type of waste treatment	
Year facility was constructed State if still in planning stage	
Location	

**SUMMARY OF PROJECT INFORMATION FORMS SUBMITTED BY DELEGATES**

LGU/ORGANIZATION		SLAUGHTERHOUSE			DUMPSITE		DOMESTIC WATER TREATMENT FACILITY	PIGGERY	OTHERS
		Pigs (per day)	Cattle (per day)	Poultry	Estimated total MT	Daily waste			
01	Agrifuels Corporation								45,000 nuts/day coconut processing; anaerobic treatment for wastewater; planning stage; Borongan, Eastern Samar
02	Alabel, Sarangani Province	80	5			175			
03	Bay, Laguna	15			13,140 MT	2.0		Piggery: 6; Capacity: 10-20 heads; Sow: 10-20 heads	
04	Bureau of Animal Industry							10 / 3/	
05	Cabanatuan City - Solid Waste Management Board	200	6	4,500	160,000 cu.m.	300 cu.m.		50-400 heads	Methane recaptive from slaughterhouse/dumpsite
06	Calamba, Laguna	20	5						
07	Cavite State Univ. - AREC	300	5						
08	CTRADE							Projects in validation stage under CDM: 5 pig farms; projects in the pipeline, advanced planning stages: at least 5 pig farms	

LGU/ORGANIZATION		SLAUGHTERHOUSE			DUMPSITE		DOMESTIC WATER TREATMENT FACILITY	PIGGERY	OTHERS
		Pigs (per day)	Cattle (per day)	Poultry	Estimated total MT	Daily waste			
09	Dolomatrix Philippines								12 MT/day; TSD facility for toxic/hazardous wastes; Location: Pampanga
10	DOST Calabarzon	300	200 per wk					Capacity: 350; Sow: 20	
11	Isabela Alcogas Corporation								Distillery 200,000 liters bioethanol per day
12	Land Bank (San Mateo)				2,500 MT			1,000 (Bulacan)	
13	Laoag City	100	10			150 cu.m./day		20 sow level	
14	Las Pinas City	450			400,000 MT	138-140 MT		5 heads	
15	Ligao City	confined piggery	countryside farm	70,000 heads of broiler per schedule / 3 schedules	20-22 tons per day			800 fatteners; 100 sow levels	Some use zeolite to remove odor and bind toxin and mitigate methane gas. But most used carbonized rice hull.
16	Lipa City	120	5	5 (carabao)	60,000 MT	60 MT		min. 3700 sow level	

LGU/ORGANIZATION		SLAUGHTERHOUSE			DUMPSITE		DOMESTIC WATER TREATMENT FACILITY	PIGGERY	OTHERS
		Pigs (per day)	Cattle (per day)	Poultry	Estimated total MT	Daily waste			
17	Lucban, Quezon	54,752 per yr	3,650 per yr		5000 MT / yr				
18	Munoz, Nueva Ecija	120	30		45,000-50,000 MT	16-30 MT/day ave.		6,000-7,000 households	
19	Navotas City	1,035,500 MT	950 MT/day						
20	Nueva Vizcaya State University		30 heads	5,000 layers; 1,000 per cycle - broilers; 500 per cycle - free range chicken			40 sow level	Small ruminants: 50 heads goats; 15 heads sheep	
21	San Carlos Bioenergy							Fuel Ethanol Distillery and Cogeneration Plant. Capacity: 125,000 liters of Anhydrous Alcohol per day. Thermophilic Anaerobic Digestion with a treatment capacity of 400 cu.m. per day. Reverse Osmosis with a processing capacity of 400 cu.m. per day. HDPE-Lined Lagoons for neutralization, sedimentation and cooling.	
22	San Fernando, La Union	85 per day	7 / 3 per day				Capacity: 1,800 total population; Sow level: 150		

LGU/ORGANIZATION		SLAUGHTERHOUSE			DUMPSITE		DOMESTIC WATER TREATMENT FACILITY	PIGGERY	OTHERS
		Pigs (per day)	Cattle (per day)	Poultry	Estimated total MT	Daily waste			
23	San Fernando, Pampanga	300+ heads	8+ heads			65-70 tons per day		No centralized; each farm in various barangays have their own facility. Type of waste treatment: biogas digester lagoon.	
24	San Juan Slaughterhouse	130	8	60					
25	Sorsogon City	50 per day	1 per day		5 m3/day				Sorsogon Public Market Decentralized Wastewater Treatment System
26	Sultan Kudarat Polytechnic State College (SKPSC-AREC)					4.5			Compost production; 1/2 hectare area 500 bags compost in storage area; composting biogas; Lutayan
27	Surigao City	200	10		24 tons/day	20 mt/day			
28	Tacloban City	200	15		140 MT			15,000 tons	
29	University of Eastern Phils (UEP-AREC)	50 per day	10 per day		389,340 MT	97.2 MT/day		100 sow, 100 gravers, 6 bears, 20,000 birds X cycles	
30	Visayas State University					2-250 kg		Animal Science Dept. 18-sow level, 2 senior boars, 10 starters, 25 weanlings, 28 suddling. Biogas digester and settling ponds	



**EVENT: CONFERENCE ON MITIGATING GREENHOUSE GAS EMISSIONS FROM LIVESTOCK AND AGRO-INDUSTRIAL WASTE**

**DATE: 15-16 October 2009, Rigodon Ballroom, The Peninsula Hotel**

Dear Delegate,

To enable preparation of a close show report and to assist the organizers in ensuring that future events meet your requirements, we would be grateful if you would complete this questionnaire and return to the Registration Desk before the close of the conference.

Name \_\_\_\_\_

Position \_\_\_\_\_

Company/Organization \_\_\_\_\_

Please rate the following aspects of the conference according to the scale below:

1 = Excellent                      3 = Adequate  
2 = Good                              4 = Poor

	1	2	3	4
Conference Topics	( )	( )	( )	( )
Conference Format	( )	( )	( )	( )
Conference Speakers	( )	( )	( )	( )
Conference Moderators	( )	( )	( )	( )
Conference Delegates	( )	( )	( )	( )
Secretariat	( )	( )	( )	( )
Conference Facilities	( )	( )	( )	( )
Conference Materials	( )	( )	( )	( )
Food and Refreshments	( )	( )	( )	( )
Schedule of the Conference	( )	( )	( )	( )

Please offer your suggestions on specific improvements (if any) which you would wish to see implemented at future conferences related to **MITIGATING GREENHOUSE GAS EMISSIONS FROM LIVESTOCK AND AGRO-INDUSTRIAL WASTE**

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## Summary of Response to Conference Evaluation Form

The conference was generally rated as good to excellent.

	<u>Per Cent of Good to Excellent Rating</u>
Conference Topics	92%
Conference Format	92%
Conference Speakers	90%
Conference Moderators	92%
Conference Delegates	86%
Secretariat	92%
Conference Facilities	88%
Conference Materials	88%
Food and Refreshments	94%
Schedule of the Conference	90%

### Comments/Suggestions:

- Integrate presentations on different types of bio-digesters and its designs
- Include other agri-form waste (rice hull, rice straw, corn stalks)
- Show EMB update on gas emissions level in each cities and municipalities as well as Philippine gas emission standard
- Organize the topics presented per section. There was no comprehensive discussion on other sector such as distilleries and other agri biomass; focused on pig wastes and slaughterhouses.
- Invite more private sector leaders to implement projects on grass root level
- Include in invitations hotel accommodation rates and provide other nearby pension houses so the delegates can include these in their respective requests
- Incorporate as part of the activity a visit to a working/functional model which represents a specific technology presented
- Present actual video of technology facilities in operation showing its efficiency and success
- Specific discussion on the technical design of structures and processes
- Give equal emphasis on the industry of distilleries so we can identify areas where we can sequester/mitigate carbon emission.
- More speakers to discuss on bio-digesters and methane capture/sequestration
- Other speakers cannot speak English clearly; There should be an interpreter to help the participants in understanding the discussion better
- Provide details on successful CDM projects and Philippine projects with quantifiable benefits from carbon trading
- Make a list of information resources for government organizations, NGOs and commercial activities
- Give more time for the speakers to discuss their topics in detail.