

NS-267 - Reducing greenhouse gas emissions in cuban pig production

Cuba

NAMA Seeking Support for Preparation

A Overview

A.1 Party	<input type="text" value="Cuba"/>
A.2 Title of Mitigation Action	Reducing greenhouse gas emissions in cuban pig production
A.3 Description of mitigation action	Reducing greenhouse gas emissions in Cuban pig production through the promotion of technologies for the capture and use of biogas (heat and electricity) obtained as a result of the treatment of pig wastewater. The NAMA comprises the installation of 3370 biodigesters systems: 1276 in small pig farms, 1914 in medium pig farms and 180 in large pig farms. These biodigesters systems will be of different technologies (tubular, fixed dome, covered lagoons) depending on the size of the farm.
A.4 Sector	<input checked="" type="checkbox"/> Energy supply <input type="checkbox"/> Residential and Commercial buildings <input checked="" type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Waste management <input type="checkbox"/> Transport and its Infrastructure <input type="checkbox"/> Industry <input type="checkbox"/> Forestry <input type="checkbox"/> Other <input type="text"/>
A.5 Technology	<input checked="" type="checkbox"/> Bioenergy <input type="checkbox"/> Energy Efficiency <input type="checkbox"/> Hydropower <input type="checkbox"/> Wind Energy <input type="checkbox"/> Carbon Capture and Storage <input type="checkbox"/> Land fill gas collection <input type="checkbox"/> Cleaner fuels <input type="checkbox"/> Geothermal Energy <input type="checkbox"/> Solar Energy <input type="checkbox"/> Ocean Energy <input type="checkbox"/> Low till / No till <input type="checkbox"/> Other <input type="text"/>
A.6 Type of action	<input type="checkbox"/> National/ Sectoral goal <input type="checkbox"/> Strategy <input type="checkbox"/> National/Sectoral policy or program <input type="checkbox"/> Project: Investment in machinery <input type="checkbox"/> Project: Investment in infrastructure <input type="checkbox"/> Project : other <input checked="" type="checkbox"/> Other <input type="text" value="Investment in systems of"/>
A.7 Greenhouse gases covered by the action	<input checked="" type="checkbox"/> CO2 <input type="checkbox"/> N2O <input type="checkbox"/> PFCs <input checked="" type="checkbox"/> CH4 <input type="checkbox"/> HFCs <input type="checkbox"/> SF6 <input type="checkbox"/> Other <input type="text"/>

B National Implementing Entity

B.1.0 Name	Grupo Empresarial Ganadero (Cattle Business Group)
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B.1.1 Contact Person 1	Norberto Espinosa Carro, President of Grupo Empresarial Ganadero
B.1.2 Address	Conill esq. Ave. Carlos Manuel de Céspedes, Plaza de la Revolución. La Habana. Cuba
B.1.3 Phone	
B.1.4 Email	nepinosa@geg.cu
B.1.5 Contact Person 2	Yasser Hamed Jassen Santisteban, Director of Swine Technological Division
B.1.6 Address	Conill esq. Ave. Carlos Manuel de Céspedes, Plaza de la Revolución. La Habana. Cuba
B.1.7 Phone	
B.1.8 Email	yhamed.oc1@geg.cu
B.1.9 Contact Person 3	
B.1.10 Address	
B.1.11 Phone	
B.1.12 Email	
B.1.13 Comments	

C Expected timeframe for the preparation of the mitigation action

C.1	Number of months for completion	12
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D Currency

D.1	Used Currency	<input type="text" value="AED"/> Conversion to USD: 1
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E Cost

E.1.1	Estimated full cost of preparation	531277
E.1.2	Comments on full cost of preparation	The full cost of preparing the Nama is 531,000.00 USD of them 100,000.00 USD will be contributed by the Cuban side, the rest is the financial support that is requested.

F Support required to prepare the mitigation action

F.1.1	Amount of Financial support	431277
F.1.2	Type of required Financial support	<input checked="" type="checkbox"/> Grant <input type="checkbox"/> Loan (sovereign) <input type="checkbox"/> Loan (Private) <input type="checkbox"/> Concessional loan <input type="checkbox"/> Other <input type="text"/> <input type="checkbox"/> Guarantee <input type="checkbox"/> Equity <input type="checkbox"/> Carbon finance
F.1.3	Comments on Financial support	<p>The financing being requested is aimed at meeting the following objectives:</p> <ol style="list-style-type: none"> 1. Updating the baseline and highlighting development scenarios in Cuban pig production; 2. Finalize the evaluation of the technological variants proposed in correspondence with the size of the farm and the specificities of the localities where they are located; 3. Design the MRV system and elaborate the specific technical requirements and procedures for its implementation; 4. Elaboration of feasibility study for the project Reduction of emissions of greenhouse gases in the Cuban pig production; 5. Conduct studies on environmental and social safeguards with a gender perspective.

F.2.1 Amount of Technical support
 F.2.2 Comments on Technical support
 F.3.1 Amount of capacity building support
 F.3.2 Type of required capacity building support

<input checked="" type="checkbox"/>	Individual level
<input checked="" type="checkbox"/>	Institutional level
<input type="checkbox"/>	Systemic level
<input type="checkbox"/>	Other <input type="text"/>

F.3.3 Comments on Capacity Building support

F.4 Financial support required
 F.5 Technological support required
 F.6 Capacity support required

G Relevant National Policies strategies, plans and programmes and/or other mitigation action

G.1 Relevant National Policies

- Law No. 81 Environment, 1997
- Law No. 118 of Foreign Investment, 2014
- Sectoral policy on the growth of pig production
- State Plan for Tackling Climate Change (Tarea Vida)
- National Plan for Economic and Social Development until 2030
- Conceptualization of the Economic and Social Model of Socialist Development
- Political and Social Guidelines of the Cuban Communist Party and the Revolution 2016-2021

G.2 Link to other NAMAs

H Attachments

H Attachments
 H.1 Attachment description
 H.2 File

Title Description

<input type="text"/>	<input type="button" value="Browse..."/>
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I Support received

I.1 Outside the Registry

- USD 25,000 from UNDP Carbon 2012 Regional Project for the feasibility study of a programme for capture and use of methane in pig farms,
- USD 60,000 from PNUMA for strategic needs assessment in pig farms,
- USD 60,000 from OLADE to determine the potential of electric energy generation from biogas produced in Cuban pig farms.

I.2 Within the Registry

Support provided	SupportType	Amount	Comment	Date
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