# PEREZ-GUERRERO TRUST FUND FOR ECONOMIC AND TECHNICAL COOPERATION AMONG DEVELOPING COUNTRIES

(G77 Project)

Final Report

On

Forum for the Development of Inter-Regional Biogas

Cooperation and Capacity Building



Biogas Institute of Ministry of Agriculture (BIOMA), P.R.China

/FAO Reference Center for Biogas Research and Training

June 2019, Chengdu, China

#### G77 PGTF Project Final Report

#### Introduction

The Group of 77 approved the project entitled "Forum for the Development of Inter-Regional Biogas Cooperation and Capacity Building" for funding from Perez-Guerrero Trust Fund (PGTF)-Reference Number INT-18-K08 at the 32nd Meeting of the Committee of Experts of PGTF (New York, 25-28 July 2017), which was submitted by Biogas Institute of Ministry of Agriculture (BIOMA), P. R. China, P. R. China (hereinafter referred to as BIOMA). The duration of the project was 1 year, started on April 2011, and was allowed to be postponed to the end of 2018.

The Final Report included the project implementation activities and expenses and other related content.

#### I. Project Overview

- **1. Project Title**: Forum for the Development of Inter-Regional Biogas Cooperation and Capacity Building
- **2. Abstract:** A forum for inter-regional biogas cooperation and capacity building will be held to exchange information related to exploiting the biogas value chain, biogas production and utilization, financing of biogas projects and programs, technical matters, safety matters, and competency building through training and development. They will also gain access to the latest in research and development and technologies on biogas.

#### 3. Background Analysis:

Biogas, a clean, renewable source of energy is produced from the anaerobic digestion of organic matter, and can be done on a household small-scale level all the way to large commercial scale projects. Biogas can be used for electricity generation, for cooking and even as a vehicle fuel. As an energy source, biogas is carbon negative, and can produce useful byproducts such as organic fertilizer and slurry. Moreover, biogas can be used as a treatment method for waste, from agricultural waste produced by farms, to industrial waste produced by the agroindustrial plants, to even municipal waste generated by human consumption.

However, not many governments recognize the contributions that biogas can make to the environment and biogas development has been pursued to varying degrees of success all over Asia. Various countries in the region have pursued independent plans for biogas development, and many are still not aware of the advantages that biogas can bring, do not fully understand the technology and process that goes into biogas production, and do not know how to properly operate and maintain a biogas plant. Many government officials and stakeholders are also not aware of the immense contribution that biogas can make to the economy and environment, and thus, have not been developing or putting together policies that can help the industry to grow.

On the other hand, there are also countries in Asia that have managed to grow their biogas program very well. For example in China, with a stable government policy aimed at growing the biogas program for waste management purposes, the industry has grown tremendously over the past decade and China has hundreds of thousands of small scale digesters and have begun to develop the market for large scale, commercial digesters for increased biogas production.

There is the lack of a source of information and network that can help countries further develop their biogas sector and not much is shared between countries. Various international agencies including GIZ, SNV has helped countries such as Thailand and Vietnam to develop their biogas programs, but resources are limited and the programs have not expanded to other countries in Asia.

The main problems causing a bottleneck for biogas development in the region include:

- Lack of understanding on the true biogas value chain amongst government and industry leaders
- Lack of coordination between the different countries in Asia on biogas development
- Lack of policies governing the biogas sector
- Lack of safety standards in biogas digester designs, construction, operation and maintenance
- Lack of skilled manpower to operate and maintain biogas plants
- Lack of access to funding for biogas projects
- Subsidies for fossil based fuels distorting the market for biogas as an alternative fuel

According to CARACAS DECLARATION OF THE MINISTERS OF FOREIGN AFFAIRS OF THE GROUP OF 77 ON THE CCASION OF THE TWENTY-FIFTH ANNIVERSARY OF THE GROUP, integrated approach towards biogas development in the region would produce the following results:

- Reduction in carbon emissions by replacing traditional fuels with biogas to produce electricity and vehicular fuel
- Reduction in land, water and air pollution utilizing biogas as waste treatment option for agricultural, agro-industrial, waste water and municipal waste
- Greater access to energy in rural and off-grid areas
- Reduction in poverty with increased access to fertilizer as a by-product of biogas production leading to increased revenue potential and increased agricultural production

The Conference stressed that exchange of energy should be extended to other sources of energy such as biomass. It also recommended that developing countries should regularly exchange information on the various aspects related

to energy production and utilization in the developing countries, particularly in regard to demand and supply, technical matters, energy use, conservation, energy-related technologies. It was agreed that increased exchange of technical information and closer coordination among developing countries was necessary in order to enable the successful establishment and operation of joint ventures in energy-related activities. The facilities of existing training institutions in developing countries should be expanded and, if appropriate, new ones created in developing countries, with the cooperation of competent organizations, in order to meet the increasing training requirements of developing countries for finding and developing indigenous energy resources, particularly in relation to the skills required for negotiation and management of energy exploration and exploitation projects.

#### I. Implementation

National Biogas Associations, Government Officials from Ministries governing the development of Biogas, and NGO stakeholders that are responsible for biogas promotion and development, should be convened to address the problems and recommend ways and means of stimulating cooperation amongst the countries in Asia to further develop and exploit biogas as a source of energy and waste management solution. In particular, countries can share their experience acquired at the national and regional levels, as well as make an evaluation of the potential contribution in the short and long-term of biogas to the development of Asian economies and environment. The group would establish the principles of cooperation pertaining to the development of biogas on a regional basis.

The group should also be exposed to a comprehensive set of recommendations to govern safety aspects in the design, building, operations and management of biogas facilities as well as prepare a roadmap for the field of training and development of personnel of developing countries in biogas design, operations and maintenance. This should include, exchange of personnel, sharing of experiences and the establishment of training courses that will give countries access to technological and research progress on biogas.

#### Partner Institutions: Asia-Pacific Biogas Association

The forum will take the following format over the course of 4 days:

16 April: Seminar on Biogas Value Chain

17 April: Orientation:

- Policy Making in relation to Biogas Development
- Setting National Standards in Safety
- Competency and Capacity Development through Training Standards
- 18 19 April

Forum for Inter-Regional Biogas Cooperation and Capacity Building The forum will co7nsist of presentations of experiences, technology and know-how by countries in the region.

- Phase 1: MOU on cooperative partnership establishment between BIOMA and APBA.
- Phase 2: Agreement between BIOMA and APBA on the co-organization of the forum.
- Phase 3: Lobbying for the event of forum on website and by email.
- Phase 4: Invitation of participants.
- Phase 5: Confirmation with vendors of hotel and booths

• Phase 6: Organization of forum.

#### **Benefits:**

The forum is expected to promote inter-regional biogas cooperation and capacity building to exchange information related to exploiting the biogas value chain, biogas production and utilization, financing of biogas projects and programs, technical matters, safety matters, and competency building through training and development. Participants will also gain access to the latest in research and development and technologies on biogas.

#### **III. Completed Activities**

**Time**: 16-19 April, 2018

Location: Kuala Lumpur, Malaysia

**Participants**: more than 200 participants from countries including China, Malaysia, Indonesia, Philippines, Viet Nam, Thailand, India and Germany. They are mainly government officials, researchers and enterprise representatives. Seven from BIOMA and five from APBA attended, some as speakers and some organizing staff.

**Implementation**: The activities including seminar on Biogas Value Chain, orientation and forum were jointly held in due by BIOMA and APBA.

• Phase 1: MOU on cooperative partnership establishment between BIOMA and APBA.

MOU signed as follows.



• Phase 2: Agreement between BIOMA and APBA on the co-organization of the forum.

## AGREEMENT FOR THE CO-ORGANIZATION OF THE BIOGAS ASIA PACIFIC FORUM 2018

This agreement is made between:

Party A:

The BIOGAS INSTITUTE OF MINISTRY OF AGRICULTURE AND RURAL AFFAIRS

(BIOMA), P.R. China

Party B:

ICESN, a division of ALL EVENTS GROUP PTE LTD, Singapore

Party A and Party B co-organized Asia-Pacific Biogas Forum in Kuala Lumpur, Malaysia during April 18-19, 2018.

Party A owes Party B US\$4121 for the fees including:

- US\$3000 for the backdrop and setup of venue
- US\$621 for the printing and dissemination of brochure
- US\$500 for the printing of materials

Party A will transfer US\$4121 to Party B's account:

ALL EVENTS GROUP PTE LTD UNITED OVERSEAS BANK

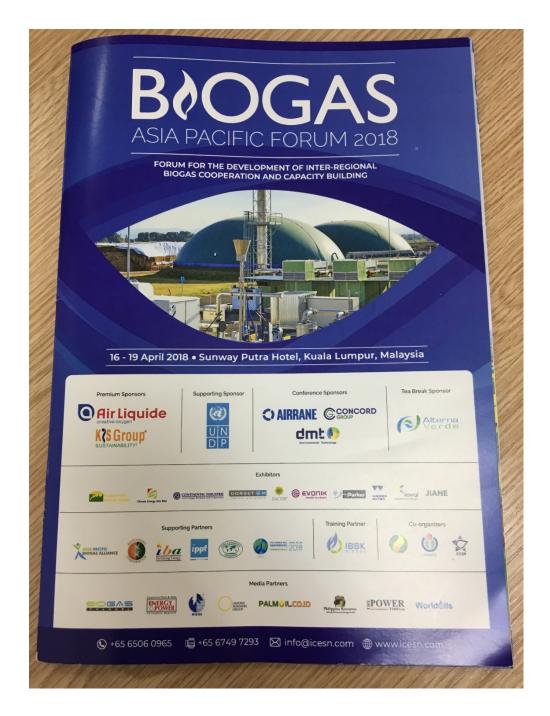
Account Number: 421-300-086-6

SWIFT: UOVBSGSG

Signed By:



• Phase 3: Lobbying for the event of forum on website and by email.



The soft and hard copies of forum brochure were sent to government sectors, scientific institutes, and companies in countries of Asia-Pacific region.

Announcement was publicized on website of BIOMA and APBA. The topics on policies, technical progress and economic analysis were highlighted.

• Phase 4: Invitation of participants.

Invitation letters were sent to biogas resource persons, buyers and agencies to attend the forum as speakers, participants or exhibitors. Supplementary demand from all stakeholders were focused on and the most number of countries were involved to invite.

Dear Luo Tao,

Have you noticed the changes to this year's program for the <u>BIOGAS ASIA PACIFIC FORUM 2018</u> (16 – 19 April 2018, Sunway Putra Hotel, Kuala Lumpur, Malaysia).

First of all, there is now a **TECHNICAL SESSION** that will run alongside the **COMMERCIAL SESSION**. Engineers and Operators of biogas plants will have the opportunity to learn more about the science and from the experiences of other biogas operators. Keep updated on the papers being presented on our website: <a href="https://www.icesn.com/bgap2018">www.icesn.com/bgap2018</a> and don't miss out!

The <u>forum</u> is the largest biogas gathering for the community in the region. Joined by over 400 biogas professionals all over the region, this year will also feature our very first **BUYER'S NETWORK PROGRAM**. This innovative feature brings buyers of biogas equipment to the conference, by providing subsidies for travel and accommodation to pre-qualified buyers, plantation and feedstock owners who are evaluating biogas solutions to the forum to learn more about available technologies and how they can build sustainable viable biogas plants. (Please email us at <u>jessalou@icesn.com</u> to find out more.)

Don't miss out on the <u>7TH BIOGAS ASIA PACIFIC FORUM 2018</u> in Kuala Lumpur!

Sign up today!

Warmest Regards, Jessalou Obal Biogas Online Portal

Join our Facebook page (<a href="https://www.facebook.com/BiogasAPAC/">https://www.facebook.com/BiogasAPAC/</a>) to keep abreast of the latest developments and keep up to date on the latest news.

# THINKING OF BUILDING A BIOGAS PLANT TO ENHANCE YOUR PLANTATION?

We are here to make it easier for you. Our buyer's network for plantation owners, dump sites, landfills, farm owners subsidizes your travel and accommodation expenses. Limited spaces are available, so sign up today!

Get FREE passes to the BIOGAS ASIA PACIFIC FORUM, cash rebates, travel subsidies and more as a member of the BIOGAS BUYER NETWORK!

For more information, contact Jessalou at jessalou@icesn.com

#### • Phase 5: Confirmation with vendors of hotel and booths

Based on site visit and negotiation, the following items were confirmed with vendors:

Venue: Sunway Hotel, Kuala Lumpur, Malaysia Setup of backdrop and booths: Sunway Hotel, Kuala Lumpur, Malaysia Printings: All Events Group PTE Ltd.

#### • Phase 6: Organization of forum

Presentations were given as scheduled. Exhibition was held during the forum. Q&A time was left after each session.









#### IV. Follow-ups

#### Follow-up 1:

In order to enhance the knowledge acquisition of applying biogas in agricultural sector and to equip participants with an direct understanding of biogas promotion in other areas of the region, BIOMA invited APBA to recommend participants to a training course entitled "Training Course on Biogas and Circular Agriculture for Asian Countries in 2018" which is sponsored by Ministry of Agriculture of China and implemented by BIOMA in Chengdu, China. The training lasted for 14 days, and 22 participants from Malaysia (10), Bangladesh (2), India (2), Indonesia (2), Malaysia (10), Philippines (1), Thailand (2) and Viet Nam (2) attended the training. The training has a comprehensive content of biogas application in circular agriculture by waste-to-energy and waste-to-fertilizer ways. Lectures, field visits and lab experiments were involved in the training, thus the training is a fruitful learning and another chance of regional communication to the participants.

#### Follow-up 2:

A team of government official from Penang state attended the PGTF project of the

forum in Malaysia and had a discussion with BIOMA on biogas technology in animal waste treatment which caused headache to the Malaysia government. Then a couple of officials from Penang state government were invited to the Training Course on Biogas and Circular Agriculture for Asian Countries in 2018 as part of the Malaysian group, led by PHEE BOON POH, COUNCILLOR OF MUNICIPAL COUNCIL OF SEBERANG PERAI. During the training, an MOU was signed between Penang state government and BIOMA on the biogas promotion in Penang.

Participants from some other countries also managed to sign MOUs with BIOMA, including:

Department of Agro-Industrial Technology, Universitas Lambung Mangkurat, the Ministry of Research, Technology and Higher Education, Republic of Indonesia

BIOMA will keep focusing on the progress of collaborative project establishment with Asian Countries in biogas and circular agriculture fields.

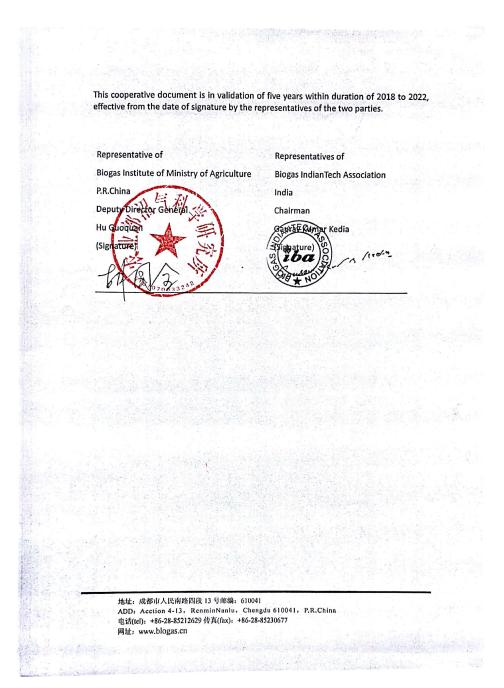


Fig. Signature page of MOU between BIOMA and India Biogas Association



### 农业部沼气科学研究所

#### Biogas Institute of Ministry of Agriculture

#### Memorandum of Understanding

Sept. 26th, 2018

Chengdu, China

Party A: Biogas Institute of Ministry of Agriculture (BIOMA), P.R.China

Address: No. 13, Section 4, South Renmin Road, Chengdu, China

Tel.: +86-85212629

Email: biomatc@163.com

Website: http://www.biogas.cn

Party B: Energy Research and Development Institute-Nakornping, Chiang Mai University

Address: 239, Huay Kaew Road, Muang District, Chiang Mai, 50200 Thailand

Tel: +66 5394 2007

Email: pruk.a@cmu.ac.th, kunpruk@gmail.com

Website: http://erdi.cmu.ac.th

Both parties expressed the intention of establishing cooperation on biogas and other bio-energies.

#### Modalities for cooperation

- Consultancy work on policies and standards established for biogas development and promotion in national strategies for the host country.
- Capacity building on biogas development for research and managerial personnel from
- Pilot projects on both household biogas and small or medium biogas plant in the places selected by Party B.
- Basis laid for project scaling-up by joint-effort from China and the country of Party B with more international funds.

地址:成都市人民南路四段 13号

邮编: 610041

ADD: Acction 4-13, Renmin Nanlu, Chengdu 610041, P.R.China 传真(fax): +86-28-85230677

电话(tel): +86-28-85212629

四址: www.blogas.cn

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#### **Activities**

- Assessment of the project feasibility through data collection and analysis, brief assessments of country needs and potential, local technical level and government policy environment, and on-site visits regarding on the local conditions.
- One pilot project on a selected demonstration site in the country of Party B regarding biogas, including in that are adaptable to local conditions and demand.
- Long-term training for local technicians on design, construction, maintenance and operation of the biogas pilot project during implementation.
- Short-term training on interesting biogas policies, regulations, standards and approaches.
- Exhibition of related product and equipment from Chinese enterprises every 2 years in China, to invite visitors from the country of Party B.
- Joint-research and education setup in colleges on technology promotion and standardization to be implemented among institutions of China and the country of Party B.

The above activities may be technically supported by Party A, and the funds for cooperation may be sourced by both parties.

This cooperative document is in validation of five years within duration of 2018 to 2022, effective from the date of signature by the representatives of the two parties.

Representatives of

**Energy Research and Development** 

Institute-Nakornping, Chiang Mai University

Director

Assistant Professor Dr. Pruk Aggarangsi

(Signature)

地址:成都市人民南路四段 13 号

Biogas Institute of Ministry of Agriculture

P.R.China

Hu Guoquan (Signature)

Deputy Director General

邮编: 610041

ADD: Acction 4-13, Renmin Nanlu, Chengdu 610041, P.R.China

电话(tel): +86-28-85212629 传真(fax): +86-28-85230677

网址: www.blogas.cn

Fig. 2 MOU - BIOMA-Chiangmai University

#### V. Financial Costs and Expenses.

The project costs are strictly based on financial budget. Financial staffs were invited for evaluation and review of the economy for the project. Project manager

monitored the cost for each activity. Director General of BIOMA supervised the whole procedure.



Fig. 3 Air fare RMB46285 yuan (US\$7224.806444)

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Party A will transfer US\$4121 to Party B's account:

ALL EVENTS GROUP PTE LTD UNITED OVERSEAS BANK

Account Number: 421-300-086-6

SWIFT: UOVBSGSG

Signed By:



Fig. 4 Agreement between BIOMA and APBA regarding co-organizing the forum



Company Registration Number: 200703310H

TAX INVOICE

Invoice Number: P10263/V Invoice Date: 7/10/2018

Biogas Institute of Ministry of Agriculture (BIOMA 4-13, Renmin Road South, Chengdu, Sichuan

Province, P. R. China

Event Code: 9175

Thank you for your interest to attend:

### Biogas Asia Pacific Forum 2018 @ Kuala Lumpur, Malaysia

Description	Date	Quantity	Amount				
Being Co-organiser of Biogas Asia Pacific Forum 2018	18 - 19 Apr 2018						
Backdrop & setup of Venue		1	USD \$3000				
<ul> <li>Printing &amp; Dissemination of</li> </ul>		1	USD \$621				
Brochures							
<ul> <li>Printing of Materials</li> </ul>		1	USD \$500				
		Total	USD \$4121				
PAYMENT IS DUE ON RECEIPT OF INVOICE							
PAYMENT SLIP *							
Payment Method  Please tick the relevant box(es)  By Bank Transfer (Please quote invoice number)  A/C Name: All Events Group Pte Ltd  Branch Code: 7375-494 Swift Code: UOVBSGSG A/C No: 4  Bank Address: United Overseas Bank Limited,  Raffles City Branch, 252 North Bridge Road,  Raffles City Shopping Centre, Singapore 179	#B1-04/05	lumber: Date: ide:	P10263/V 10 July 2018 9175 Biogas Asia Pacific Forum 2018				
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Please ignore the payment slip if payment has been made
 Subject to Terms & Conditions overleaf.

ALL EVENTS GROUP PTE LTD 52 Foch Road, #02-02, Singapore 209274

T: +65 6506 0965 F: +65 6749 7293 E: info@alleventsgroup.com W: www.alleventsgroup.com

Fig. 5 Invoice of the payment to APBA (US\$4121)

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Fig. 6 Funds transfer to APBA (US\$4121)



Fig. 7 USD and RMB change rate

No.	Items	Expense (yuan)	Expense (US\$)	PGTF Fund (USD)	BIOMA Fund (USD)
1	Air fare of 7 BIOMA staff to Malaysia	46285	7225		
2	Per diem of 7 BIOMA staff: 7 pax*5 days*USD195		6825		
3	Speakers fee: 14 pax*USD400		5600		
4	Cleric fee: 10 pax*5 days*USD200		10000		
5	Payment to APBA for the backup, venue setup, printings and brochure dissemination		4121		
	Total		29650	29,000	650

#### **Bank Information:**

CHINA CONSTRUCTION BANK CORP, SICHUAN BRANCH

51014008100221000419

SWIFT: PCBCCNBJSCX TEL.: +86-28-84470350

ADDRESS: 19/F, CCB SICHUAN BLDG, NO. 86 TIDU ST, CHENDU, SICHUAN, CHINA

#### VI. Conclusion

Forum is a good platform to connect stakeholders of the field for communication

and discussion about the research findings, policy environment and market demand in the sector, as a way to explore cooperation opportunities.

BIOMA contracted with APBA on the duty clarification. As APBA has a branch in the location of forum, it is easier for APBA to do the preparation of venue, printings and backdrops. And BIOMA collects resource persons to be speakers so as to promote the informativeness of the forum. Therefore, finding a supportive and cooperative partner is important factor of the success of international or regional project, so as to make full use of the capacities of each side.

BIOMA covered the whole expense prior to the remittance of the fund from UNDP. This project is not profit-driven, but demand oriented for future cooperation opportunities. So MOUs were reached between BIOMA and the participants to the follow-up events.

PGTF fund being of limited amount, the project is of wide impact in the region, as connection of stakeholders may empower the strength of each related.