



**ASIAN AND PACIFIC CENTRE FOR AGRICULTURAL ENGINEERING
AND MACHINERY (APCAEM)**

A-7/F, China International Science and Technology Convention Centre
No. 12, Yumin Road, Chaoyang District, Beijing 100029, P.R. China

Report of the International Seminar on Biogas Technology for
Poverty Reduction and Sustainable Development
18-20 October 2005

The International Seminar on Biogas Technology for Poverty Reduction and Sustainable Development, jointly sponsored by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and the Ministry of Agriculture of China (MOA), has been successfully conducted with satisfied participation and outputs. The seminar was organized by Asian and Pacific Centre for Agriculture Engineering and Machinery (APCAEM) and Center for Energy and Environmental Protection Technology Development, MOA (CEEPTD) from 18 to 20 October, 2005 at Beijing International Convention Center of China.

A total number of 159 participants attended the Seminar with majority of the participants from China and with 50 participants from 19 other countries/nationalities: Vietnam, Laos, Cambodia, India, Indonesia, Mongolia, Thailand, Philippines, Malaysia, Bhutan, Nepal, Bangladesh, Netherlands, Germany, Belgium, U.K., Lesotho, Austria, and U.S. A..

International Participants classified by organization are as follows:

SNV	BORDA	UNAPCAEM Invited	Other Organizations
21 participants	3 participants	13 participants	13 participants

Note: SNV: Netherlands Development Organization

BORDA: Bremen Overseas Research and Development Association

Nationality breakdown of the 50 international participants:

Lao PDR	3	Netherlands	8	Nepal	3	Germany	9
Belgium	1	Vietnam	4	Bangladesh	3	Cambodia	1
India	4	Philippines	1	Indonesia	1	Mongolia	1

Bhutan	1	Thailand	2	Malaysia	1	Lesotho	1
USA	4	U.K.	1	Austria	1		

The 3-day Seminar was fully arranged by two parts. One is paper presentation and a round table discussion on 18 and 20 October 2005, another one is technical visit which was organized on 19 October 2005.

There were a total 48 papers received, of which 18 papers were prepared by the international experts and 30 by the national ones. All papers were distributed to the participants at time of registration. Due to time constraint, 13 international papers and 13 national papers were invited to make presentations. These presentations were presented in 4 sessions: keynote presentation, household biogas system, large scale biogas system and other general topics.

The presentations arrangement:

keynote presentations 6 papers	household biogas system 10 papers	Large scale biogas system 5 papers	Other topics 6 papers
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A field tour to a large biogas digester system at Bei Langzhong Village in Shunyi District, Beijing and a visit to the Third China Agriculture Trade Fair were arranged on 19 October 2005. Most of the participants were very interested in the field trip and visit.

The feedback to the questionnaire shows that all participants were satisfied with the logistics and results of the Seminar. During the Seminar participants actively exchanged experience and information on biogas technology and development. Useful information and appropriate experience will be applied in their own project. Networking will be very beneficial in the future. Suggestions on the Seminar were also submitted according to their different requirements.

The round table discussion outlined, through brain-storming, follow-up activities for the future.

Household Biogas System Presentations:

1. Combine biogas production technology with environmental sanitation strategies

2. Organize an expert team from India, Nepal & China etc. to support biogas application to other countries
3. Especially develop strategies & good technology and put efforts to overcome misconception in countries where biogas had failed
4. Create new income opportunities with biogas production
5. Strengthen Social community development with hardware & software
6. Solve the institutional problems for CDM rather than technology problems, such as independent monitoring system

Large Scale Biogas System Presentations:

1. Integration biogas electricity generation into national feed-in-grid strategies and village electrification
2. Create models for biogas grids when plans could be connected to deliver upgraded biogas
3. Testing clear rules for the application of RE laws
4. Promotion of large scale industrial & community plants
5. Integration of bio-organic waste and sludge collection systems

Annex I: Seminar Programme

Annex II: List of Participants

Annex III: List of papers submitted