



## REDUCTION OF GHG EMISSION THROUGH PROMOTION OF COMMERCIAL BIOGAS PLANTS

### NEWSLETTER ISSUE 04 | JULY 2018



### Welcome to the 4<sup>th</sup> issue of Biogas Project Newsletter!

In this issue, we highlight the major activities which mainly aim to improve the capacity of Biogas Technology and Information Center (BTIC) to be able to deliver its services for commercial biogas development in Cambodia. Here are the topics:

- BTIC got the 2<sup>nd</sup> training on Commercial Biogas Technology
- The project held the first training on Commercial Biogas Technology and handed-over of equipment to BTIC
- BTIC received training on operation of equipment from International Biogas Expert
- Exploring alternative uses of Biogas (other than biogas to energy conversion) in Cambodia
- Upcoming activities

## BTIC got the 2<sup>nd</sup> training on Commercial Biogas Technology



A 9-day training course on Commercial Biogas Technology has been successfully completed on 5 July 2018. The training is the second part of the series of training on commercial biogas technology which is one of the efforts to build capacity of BTIC (Biogas Technology and Information Center) as well as its stakeholders in order to create a pool of biogas experts in the country. The training was held at the Royal University of Agriculture (RUA), with the participation of 25 participants who are BTIC members, academic staffs, researcher and national experts involved in biogas development. The courses were provided by senior experts from Institute of Biogas Institute of the Ministry of Agriculture and Rural Affairs (BIOMA), China. The trainees were trained on various subject related to biogas generation including function and cultivation of methanogens, digestate utilization as well as quality control and management mechanism of biogas systems. Beside theories, the trainees were taught to use various equipment and to conduct experiments in laboratory. The training has drawn an active interaction and exchange of knowledge between trainees and experts. For details on the training, visit [here](#). Also, let's hear feedback from our trainees below.





Mr. Mean Makara, fourth year student, Faculty of Agricultural Engineering, who wishes to enhance his technical knowledge in order to become a competent engineer.

After completion of the training, it will bring many benefits for my future work that I will involve with BTIC including checking of biogas system quality and construction.



Ms. Srey Theavy, lecturer of RUA, who wishes to explore the post-harvest method for agricultural produces from biogas production process.

I wanted to learn more on another final process that converts methane to ethylene, a gas that can be used for ripening fruits or vegetable.

## The project held the first training on Commercial Biogas Technology for BTIC



Under the framework of the project, UNIDO, in close collaboration with the Biogas Institute of China's Ministry of Agriculture and Rural Affairs (BIOMA) and the

UNIDO Center for South-South Industrial Cooperation (UCSSIC), successfully completed a first training for 26 professionals on commercial biogas technology for the Biogas Technology and Information Center (BTIC) and its stakeholders. The training will enhance capacity of BTIC staffs to provide up-to-date information and relevant knowledge on biogas technology and related areas, including policies, advisory services, and research and development. In addition, BTIC received equipment to undertake biogas feasibility studies; the equipment will considerably enhance the BTIC's capacities. For more details, visit [here](#).

### **BTIC received training on operation of equipment from International Biogas Expert**



With the aim to capacitate BTIC staffs, UNIDO has commissioned an International biogas expert, Mr. Bart Frederiks to provide hand-on trainings on how to operate the measuring equipment including biogas analyzer with calibration gas; power logger; power clamp meter and digital scales. BTIC was also trained to properly record the measuring data and to interpret the recordings. In order to ensure the proper use of each equipment, the simple user-friendly manual will be developed and make them accessible by all staffs in the center.

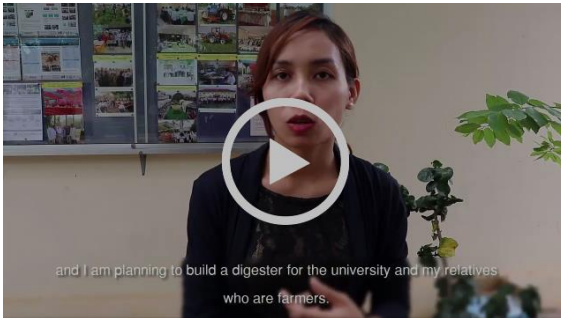


## Exploring Alternative Uses of Biogas in Cambodia



Based on Feasibility studies on biogas production which were carried out under the framework of the Biogas project, it is shown that there is a good potential for biogas generation produced by piggery farms across Cambodia. Therefore, the project intends to consider alternative uses of biogas, such as upgrading (bottling) or the distribution of biogas as a gaseous fuel in order to better utilize this untapped renewable energy sources. UNIDO has commissioned an International Expert of the German Biogas Association (FvB) to work and train BTIC staff to jointly develop tailored solutions for certain animal farm types and sizes for alternative uses of biogas. BTIC staffs were trained to conduct a whole process of feasibility study during this commission. For more details, visit [here](#).

## Related videos



Mrs. Vong Pisey, lecturer of RUA, who has participated in the training to gain in-dept knowledge on the biogas system.

and I am planning to build a digester for the university and my relatives who are farmers.



News coverage of the first training on commercial biogas technology and hand-over of biogas equipment

## Upcoming activities:

- Completion of tendering process for supply and installation of equipment for 3 biogas projects in Cambodia.
- BTIC staff to be trained on improved covered lagoon systems.
- In-dept study to be done on bigoas upgrading and biogas backpacks
- 3 commercial biogas systems in three farms are expected to be installed in Q3 2018 with support of BTIC who will supervise procurement management.
- 3<sup>rd</sup> Project Steering Committee meeting to be organized in Dec 2018.
- Regional Workshop to urge the interest of the commercial farms to participate in the project and to disseminate the presence of BTIC and its services

 Forward to Friend

*For further information:*

**Mr. Narin Sok**, UNIDO Country Representative  
Address: Phnom Penh Center, Building " A", Room 611, 6th floor  
Corner Sihanouk Blvd (St. 274) & Sothearos Blvd  
Sangkat Tonle Bassac, Khan Chamkarmon  
Phnom Penh, Cambodia  
Email: [office.cambodia@unido.org](mailto:office.cambodia@unido.org)

*Copyright © 2018 Biogas Project, All rights reserved.*  
You are receiving this email because you are opted in our website and/or Facebook.

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#)

