



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

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**Welcome to the 6<sup>th</sup> issue of Biogas Project Newsletter!**

We proudly present the major progresses made by the project in close collaboration with [BTIC \(Biogas Technology and Information Center\)](#) which is being hosted by Royal University of Agriculture (RUA). Here are the topics:

- Providing Technical Assistance for Adoption of Biogas Technology
- Capacity Building and Promoting R&D on biogas development
- Building Network and Sharing Knowledge
- Upcoming activities

## Providing Technical Assistance for Adoption of Biogas Technology

Since its launch in 2016, BTIC (Biogas Technology and Information Center) has received various technical training from international biogas institutes and experts as well as technical equipment that would enhance their capacity to deliver technical services effectively in the field.



BTIC has received requests from a few farms including swine raising farms, dairy processing farm, and other mixed agricultural farms for assessing the biogas potentials as well as improving performance of existing biogas systems. The Centre has responded, in collaboration with project management unit, to carry out technical feasibility study for those facilities. Until now, BTIC has developed 4 technical feasibility studies. It has taken into account the needs for simplified technical assistance process to support interested biogas developers by developing pre-feasibility assessment tool which will be published on website of BTIC. The tool will be enabling the interested stakeholders to check the biogas potential at their facility before reaching to the Center for detailed study.



## **Capacity Building and Promoting R&D for biogas development**

Though BTIC has improved its technical capacity to carry out wide ranges of technical assistance, the Center has been constantly provided with different hand-on trainings from international expert in the field. The project has supported BTIC to construct 3 testing biodigesters so that it can carry out research on different ranges of subjects including H<sub>2</sub>S (it is known as a corrosive substance which is very harmful to engines) removal techniques, biogas potential from different kinds of feedstock, and biogas applications for running with engines; biogas backpacks; and modified LPG stoves. The Center will be equipped with the know-how on the design and architecture of different types of covered lagoon technologies.

With the knowledge gained, BTIC will be more competent to deliver necessary services in order to enable the diffusion of commercial biogas technology.



**Volunteer students and BTIC staff received a hand-on training on how to modify gasoline water pump to run with biogas**





## Experimental work with biogas backpack as an alternative portable biogas storage



## Building Network and Sharing Knowledge

BTIC has understood the importance of networking and collaboration in order to strengthen its operation. The Center has participated in different meetings and exhibitions to exchange knowledge with other stakeholders as well as to



disseminate its services. It engaged dialogues with a few NGOs that are active in the field of biogas and bio-fertilizer to discuss future collaboration especially on research and development of knowledge relevant to Cambodia context.



With the aim to foster the adoption of the commercial biogas technology in the country, the Center has been actively in shared knowledge on biogas technology

and its good practice to financial institutes and private sectors including swine raising farms and local technology supplier. Good practice manual for biogas plant operators is being developed by the project and it will be widely distributed.

### **Upcoming activities:**

- CMU-CD (advance covered lagoon technology) training to be provided by partner institute will be organized in September 2019.
- Pretreatment unit for desulfurization/H<sub>2</sub>S removal to be installed at a participating farm in Q3 2019 with support of BTIC who will support the installation, commissioning and training.
- 3rd Project Steering Committee meeting to be organized in Q4 2019.
- Release a call for expression of interest in development of biogas project in Q4 2019.
- Research activities to be carried out by selected students in Q4 2019.
- 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



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