

## Seminar on Biogas Promotion and Management for Developing Countries

Name	Seminar on Biogas Promotion and Management for Developing Countries		
Organizer	Biogas Institute of Ministry of Agriculture		
Time	2023-06-29 -- 2023-07-19	Language for Learning	English
Invited Countries	Developing Countries		
Number of Participants	30		
Requirements for the Participants	Age	Under 45 for officials at or under director's level; under 50 for officials at director general's level.	
	Health	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without metal diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant.	
	Language	Capable of listening, speaking, reading and writing in English during the training	
	others	Family members or friends shall not follow	
Host City	Chengdu, Sichuan province	Local Temperature	25°C—35°C
Cities to visit	Beijing City, Chengdu City, Zigong City, Suining City, Kunming City	Local Temperature	25°C—35°C
Notes	<p>1. Visa: Please confirm that the visa validity period covers from five days before the program starts to five days after the program ends.</p> <p>2. Daily life preparation:</p> <p>(1) Prepare light footwear to facilitate outside visits; formal dress or national dress is required for important activities of the training course.</p> <p>(2) You can carry a small amount of commonly used drugs according to your own situation. It is strictly prohibited to bring prohibited and exceeding the limit of drugs into the country.</p> <p>(3) If you have any needs regarding religious belief, please communicate with the organizer.</p> <p>3. Luggage:</p> <p>(1) Please pay attention to the standard of luggage allowed on flights. The responsibility for excess baggage fees and missed flights caused by baggage disputes shall be borne by the individual.</p> <p>(2) Please confirm whether you need to check your luggage again during the transfer.</p> <p>(3) If the baggage is lost, please register with the airline. When filling in the registration form, please call the contact person of the undertaker to confirm the address of the baggage delivery.</p> <p>4. Missed flights and pick up at the airport:</p> <p>(1) If you cannot leave for China on time or if the flight is delayed during the transfer, please contact the project contact person to update your latest flight status,</p> <p>(2) When the flight has landed and the luggage has been claimed, please wait at the</p>		

	<p>international or domestic arrival exit. BIOMA staff will pick you up at the airport. If anything unusual happens, you can call the project contact person.</p> <p>5. Ticket change: If the ticket is changed without consent or cancelled or changed due to personal reasons, the expenses and liabilities incurred shall be borne by the individual.</p> <p>6. Please contact the program contact person (mobile phone number 0086-18113017201) via WhatsApp before coming to China.</p>	
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About the Organizer	<p>Founded in 1979, Chengdu Biogas Institute of Ministry of Agriculture and Rural Affairs (BIOMA) is mainly responsible for the basic and applied research, frontier technology research, major key generic technology research, other public welfare research and the technical extension and trainings in biogas and other rural renewable energy, rural environmental treatment and the cross field of agro-ecological restoration. BIOMA has been committed to actively promoting knowledge dissemination and technology transfer in related fields through trainings, demonstration projects and cooperative research. In 1981, upon the agreement between Chinese government and UNDP, the Asia-pacific Biogas Research and Training Center (BRTC) in Chengdu of China was established at BIOMA. In 2014, FAO designated BIOMA as “FAO Reference Center for Biogas Research and Training”. In 2021, BIOMA was titled as one of the first “China-Africa Joint Centers for Modern Agrotechnology Exchange, Demonstration &amp; Training” by the Ministry of Foreign Affairs and the Ministry of Agriculture and Rural Affairs.</p> <p>Since its establishment in 1979, BIOMA has held more than 150 international trainings sponsored by the Chinese government and international organizations for more than 4,000 international participants from over 120 countries. At the same time, entrusted by the Chinese government and international organizations, experts from BIOMA have conducted overseas training and demonstration projects in developing countries, actively participated in the introduction and export of agricultural technologies and products, and established long-term cooperative relations with scientific research institutions in Europe, America and other developed areas.</p>	
Seminar Content	<p>The prevention and control of environmental pollution in developing countries will be discussed with the officials participating in the seminar through such forms as lectures, symposiums, field visits, and cultural tours.</p> <p>1. Introduction to main training courses and contents</p> <p>(1) Overview of China's national conditions: Introduction of China's society, culture and folk customs, as well as the concept of a community with a shared future for mankind advocated by China and the practical measures of the Belt and Road Initiative.</p> <p>(2) Development status and overview of China's biogas technology: introduces the development history, model and support mechanism of China's biogas technology. (3) Food crop fuel ethanol: introduces the raw materials of fuel ethanol, the production and application technology of food fuel ethanol.</p> <p>(3) Basic knowledge of biogas anaerobic microorganisms: introduce the principle of biochemical reaction, microorganisms involved in biogas fermentation and the identification of anaerobic microorganisms, etc.</p> <p>(4) Design of large and medium biogas plants: introduces the process calculation of large and</p>	

medium biogas plants, the design of each process unit, the selection of main equipment, site selection and layout.

(5) Using agricultural waste as resource: introduce key technologies on the utilization of biogas, fuel ethanol, fertilizer, feed and other straw resource.

(6) Design and construction of rural household biogas digesters: introduces the operation principle and technology of household biogas digesters, and the design and construction of household biogas digesters.

(7) Operation and management of large and medium biogas plants: introduces the operation and management of large and medium biogas plants, and their role in regional energy supply and agricultural core bond.

(8) Technology and mode of improving the environment for human settlement: introduces the progress and achievements of environment improvement for rural human settlements in China and the technology and equipment of rural pollution control in China are promoted through theoretical explanation and analysis of practical cases.

(9) Biogas power generation technology: introduces the latest policy status, development trend, technical progress and application of biogas power generation.

(10) Disposal and environmental benefits of biogas digestate: introduces the basic characteristics, utilization and environmental impact of biogas digestate.

(11) Evolution of waste and adaptation of treatment technology in developing countries: introduces the changes in the components of rural solid waste in developing countries. Based on the adjustment of corresponding management strategies, it analyzes the feasibility and practicability of treatment strategies and technologies adopted with the changes in components, and looks into the management strategies and treatment technology models of rural solid waste in developing countries in the future.

(12) China's biogas technology and quality supervision standards: introduces the importance of biogas standard system, the classification of the standard system, China's standard system, etc.

2. Field visits and cultural tours

Participants will pay field visits to Chengdu Shuangliu Yong 'an Biogas Cooperative, the "Hailong Kaige" Agricultural Tourism Park in Suining city, super-large natural biogas plant Zigong city, Sichuan province, the New Hope Dairy Farm biogas plant in Yunnan province, National Modern Agricultural Science and Technology Exhibition Park, etc

They will also visit the Chengdu Research Base of Giant Panda Breeding, the Dujiangyan Water Conservancy Project in Sichuan province, Stone Forest and Dianchi Lake in Kunming city, Yunnan province and Forbidden city and Great Wall in Beijing to experience the world natural cultural heritage and China's achievements in reform and opening up.

3. Discussion and communication

The seminar will organize symposiums on biogas promotion and management and exchange meeting on seminar summary.