

# 2021



## ASEAN Training Course

Time: 11.15-11.27

**Theme : Valorization Utilization Technology and Industrial Application of Biomass Wastes in ASEAN Region**

### Organizer

**Institute of Urban Environment (IUE) ,  
Chinese Academy of Sciences (CAS)**

### Purpose

The ASEAN training course aims to help scientists and technical and managerial personnel of enterprises, research institutes and universities in related fields from the ASEAN countries to further understand the real challenges and to master current urgent technologies for biomass waste utilization.

The ultimate goal is to promote exchanges and cooperation between China and ASEAN countries in resource recycling, carbon emission reduction, ecological and environmental protection and sustainable development.

The participants will :

1. improve the understanding on cutting-edge technologies and frontier scientific research trend in the utilization of biomass resources.
2. participate in interactive discussion group, where they will be able to network and share ideas.

### Information



#### Online & Offline

The training course will be conducted in a variety of ways including online teaching for participants who stay in ASEAN countries and offline training for foreign students in China.



#### Target Audience

Science and technology counselors ; managerial personnel of enterprises, research institutes and universities in related fields from the B&R countries.



#### Language

The all training courses will be held in English.



#### Certification

Successfully participants will obtain a course certificate recognized by IUE, CAS.

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### Course Content

**Participants will attend over 21 courses during the training. The major courses including:**

1. Waste Management and Soil Health for Sustainable Cities
2. Technical R&D and Demonstration of Coproduction of Carbon, Heat and Power by Pyrolysis Gasification Cellulose Biomass
3. Current Situation and Development Trend of the Global Biofuels Industry Derived by Carbon Emission Reduction and Carbon Neutrality Policies
4. The Current Status and Future Prospect of Biomass Resources in Borneo Island for Optimum Utilisation
5. Sustainable Renewable Countries Energy and Biomass Certifications in South East Asia
6. Sustainable and Optimal Use of Biomass from Agriculture, Forestry and Aquatic Resources in Sarawak, Malaysia
7. Utilization of Biomass Waste to Develop Growth Media and Nutrient Soil
8. Turn Organic Waste into Biochar - CO<sub>2</sub> Sequestration and Mitigation
9. Treatment Technology and Development Trend of Fly Ash From MSW Incineration in China
10. Sorting and Management of Municipal Solid Wastes (MSW) in China: A Case Study in Xiamen City
11. Material Cycles and Sustainable Development
12. Low-Carbon Development, Carbon Peak and Carbon Neutral
13. Frontier Theories and Techniques in Sustainable Urbanization and Management
14. Research and Technical Application of Soil Conditioner Based on Industrial and Agricultural Waste
15. A Systems Approach to Urban Health and Wellbeing-From Theory to Practice
16. Thermochemical Conversion of Biomass into Fuels and Chemicals: Overview and Perspective
17. Principles and Solutions to Sequester Carbon & Decrease Greenhouse Gases Emissions in Farmland of China
18. Upgrading of Waste Biomass to Highly Value-Added Chemicals and Fuel
19. The Household Biogas Technology in China
20. Technical Progress in Industrial Biowastes Treatment and Resource Reuse in China
21. Dynamic of Aboveground Biomass Across Maludam National Park Peat Swamp Forest

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### Registration

The Deadline for applying the course is **October 15 , 2021**.  
Please contact our office at email: [bbpan@iue.ac.cn](mailto:bbpan@iue.ac.cn)  
(please cc [fionake123@sina.com](mailto:fionake123@sina.com) )

### About IUE

The Institute of Urban Environment (IUE), Chinese Academy of Sciences (CAS) was established on July 4, 2006. IUE, as a national institute, is the only research institute engaged in comprehensive studies on urban environment in the world. It is located in Xiamen, a beautiful city in southeast China.

IUE is a multi-disciplinary institution engaged in fundamental and applied research on the cutting edge of environmental and resource sciences, as well as the development of high-tech for environmental remediation and waste management, encompassing the impacts of urbanization on ecosystems and social economy, the relationship between environmental quality and innovative integration of technologies for the control and remediation of water, soil, air and solid waste pollution.



IUE has 280 employees, including one academician of the Chinese Academy of Science, one academician of the Chinese Academy of Engineering, six national-level distinguished young scholars, thirty-four researchers and four national-level excellent young scientists. It has a bank of talents in the field of urban environmental science, which will provide firm technological as well as scientific support for the development of environmental protection industries and ecological civilization.