

タイ カーボンニュートラル・バイオマス シンポジウム

JAIMA日本分析機器工業会は10月20日(金)にタイバンコクにて、“カーボンニュートラル社会とバイオマスエネルギー”をテーマに、シンポジウムを開催します。カーボンニュートラルの実現と、バイオマスの有効活用によるエネルギーへの高効率な転換は、昨今のエネルギー危機の中で喫緊の課題となっています。

この度JAIMAは京都大学JASTIP（日ASEAN科学技術イノベーション共同研究拠点）、タイのNSTDA（タイ科学技術開発庁）、TISTR（タイ科学技術研究院）、THAMMASAT大学及びVISTEC等の研究機関の協力を得てシンポジウムを開催しますので、皆様のご参加をお待ちしています。

シンポジウム名称：“カーボンニュートラル社会とバイオマスエネルギー”

主催：JAIMA日本分析機器工業会

開催日時：2023年10月20日(金)9時-17時（タイ時間） 11時-19時(日本時間)

開催場所：タイバンコク Best Western Nada Don Airport Hotel

235/8 Phaho Yothin Road, Bangkok, 10220 Thailand

BTS N18 Phahon Yothin 59 station直結

開催方式：タイバンコク会場及びバンコク会場とのZOOM方式

使用言語：英語

参加費用：無料（途中ランチの提供及びコーヒーブレイクがあります）

開催内容：エネルギー政策の紹介、バイオマスエネルギーのケーススタディ、関連企業のプレゼンテーション及びブース展示

参加登録先：https://www.jaima.or.jp/en/event/apply_cnbs/



問合せ先：日本分析機器工業会 濱田 hamada@jaima.or.jp

Carbon Neutral Biomass Symposium in Thailand

Japan Analytical Instrument Manufacturers' Association (JAIMA) will hold a symposium on "Carbon Neutral Society and Biomass Energy" in Bangkok, Thailand on Friday October 20th. The realization of a carbon neutral society and the highly efficient conversion to energy through the effective use of biomass are urgent issues in the midst of the recent energy crisis.

JAIMA is pleased to host this symposium in cooperation with Kyoto University JASTIP (Japan-ASEAN Science and Technology Innovation Platform), NSTDA (Thailand National Science and Technology Development Agency), TISTR (Thailand Institute of Scientific and Technological Research), THAMMASAT University, VISTEC and other research institutes in Thailand, and look forward to your participation.

"Carbon Neutral Biomass Symposium in Thailand"

Organizer: Japan Analytical Instrument Manufacturers' Association (JAIMA)

Date & Time: October 20, 2023, 9:00-17:00(Thai time) 11:00-19:00 (Japan time)

Venue: Best Western Nada Don Airport Hotel

235/8 Phaho Yothin Road, Bangkok, 10220 Thailand

Direct connection to BTS N18 Phahon Yothin 59 station

Method: On site and on-line (by the Zoom)

Language: English

Fee: Free (Lunch and coffee breaks will be provided)

Details: Introduction to energy policy and case studies of biomass energy,
Presentations and booth exhibits by related companies

Registration: https://www.jaima.or.jp/en/event/apply_cnbs/



Contact: JAIMA, Dr. Naoki Hamada hamada@jaima.or.jp

**Proposal for symposium on
Carbon neutral society and Biomass energy**

カーボンニュートラル・バイオマスエネルギーシンポジウム

Ver.28

September 1, 2023

タイ シンポジウム 日本及びタイの参画組織



Theme: Carbon neutral society and Biomass energy symposium

Method: Tokyo (JAIMA)-Bangkok(Hotel in Bangkok) online and offline

Date : October 20(Fri), 2023 2023年10月20日(金)

Organizer : JAIMA 日本分析機器工業会主催 **Cooperation :** JEMIMA 日本電気計測器工業会

Expected Participants:

Japan

- ✓ JAIMA Japan Analytical Instruments Manufacturer's Association 日本分析機器工業会
- ✓ JEMIMA Japan Electrical Measurement Instruments Manufacturer's Association 日本電気計測器工業会
- ✓ Government organizations 近畿経済産業局 / 在タイ日本大使館
- ✓ Japan-Thailand Economic Cooperation Society 日・タイ経済協力協会 JTECS
- ✓ JASTIP (Japan-ASEAN Science, Technology and Innovation Platform, Kyoto Univ. JASTIP
Professor Hideaki Ohgaki and Dr. Taro Sonobe 京都大学 日・アセアン科学技術イノベーションプラットフォーム
- ✓ Organizations and Companies related to carbon neutral and biomass

Thailand

- ✓ National Science and Technology Development Agency (NSTDA) タイ国立科学技術開発庁
- ✓ National Institute of Science and Technology of Thailand (TISTR) タイ国立科学技術研究所
- ✓ Thammasat University (Dept of Chemistry, Bioenergy Research) タマサート大学
- ✓ VISTEC (School of Biomolecular Science and Engineering) VISTEC大学
- ✓ New Energy and Industrial Technology Development Organization (NEDO) Bangkok Office
- ✓ Japan Science and Technology Development Agency (JST) at NSTDA office 科学技術振興機構
- ✓ Technology Promotion Association (Thailand-Japan) TPA 泰日経済技術振興協会
- ✓ Organizations and companies related to carbon neutral and biomass

タイシンポジウム概要

Symposium outline

Greeting

- ✓ JAIMA Japan Analytical Instruments Manufacturer's Association
- ✓ Greeting from Embassy of Japan, and Technology Promotion Association (Thailand-Japan)

✓ Keynote speech

- ✓ Thailand policy on carbon neutral society and role of biomass energy
Dr. Sumittra Charojrochkul, Executive Director, ENTEC
- ✓ New Energy and Industrial Technology Development Organization (NEDO)
Dr. Tomoaki Hara, Project Manager, New Energy Dept. Biomass Group

Case study

- ✓ Thammasat University (Biomass) - Thailand
Dr. Chanatip Samart, Assistant Professor
"Pyrolysis an alternative technology in biorefinery and activity in BCRU Thammasat University"
- ✓ VISTEC (Biomass) – Thailand
Assistant Prof. Dr. Thanyaporn Wongnate
"Transforming Southeast Asian Lignocellulosic Waste into Bioenergy: Harnessing Anaerobic Digestion with Tropical Microbes".
- ✓ TISTR Sustainable Energy Dept.(Biomass) – Thailand **Dr. Pratip Vongbandit**
Deputy Governor for Sustainable Development "Process Improvement of Gasification and Biogas by the Three-Stage Gasification and Two-Stage Biogas"
- ✓ Maniwa biomass power plant **Mr. Koichiro Nakashima** – Japan
- ✓ Yokohama Food Recycle biomass power plant by **J&T Recycling Corp. (JFE group)– Japan**

Company presentation

JAIMA and JEMIMA member companies and other biomass related companies

Closing by **Professor Hideaki Ohgaki**

- ✓ **JASTIP** (Japan-ASEAN Science, Technology and Innovation Platform by Kyoto University)

タイシンポジウム概要

Symposium outline

Company presentation プレゼンテーション参画企業

- 1. DKK-TOA Corporation**
- 2. Kyoto Electronics Manufacturing Co., Ltd**
- 3. HORIBA., Ltd**
- 4. JASCO International Co., Ltd.**
- 5. JEOL Ltd.**
- 6. SHIMADZU Corporation**
- 7. Agilent Technologies Inc.**

- 8. Yokogawa Electric Corporation**
- 9. RION Co., Ltd.**

- 10. Shingu Energy**

Schedule (tentative)

Time	Contents	Note
9:00-9:03	JAIMA president Greeting	
9:03-9:10	Greeting from others	
9:10-9:13	JAIMA introduction	
9:13-9:16	JEMIMA introduction	
9:16-9:46	ENTEC/NSTDA	
9:46-10:16	NEDO	
10:16-10:56	Company presentation (4 companies)	
10:56-11:10	Coffee break	
11:10-11:40	TISTR	
11:40-12:10	Thammasat university	
12:10-13:00	Lunch	
13:00-13:40	Company presentation (4 companies)	
13:40-14:10	J Bio Food Recycle	
14:10-14:40	Maniwa Biomass Power Plant	
14:40-15:40	Company presentation (4 companies)	
15:40-15:50	Coffee Break	
15:50-16:20	VISTEC	
16:20-16:30	Closing	

シンポジウム バンコク開催ホテル
BTS直結のホテル（市中心部から15分程度）
Place for symposium @ BKK



Best Western
Nada Don Mueang Airport Hotel

Direct Connection by
BTS N18 Phahon Yothin
59 station



Presentation & Company booth **150cmx40cm**
Room capacity : 90 people



Morning session 9:00-12:10

Lunch 12:10-13:00

Afternoon session 13:00-17:00

Coffee Break am & pm



Company booth image

Sight visit

TISTRバイオガス生成プラント by JICA (バンコク郊外)

Optional tour on Oct. 19 (Thu) morning (planned)

TISTR biomass pilot plant at Lam Takhlung, biogas production
2.5 to 3 hours from Best Western Nada Don Hotel

Dr. Panida Thepkhun Research Officer (TISTR Biomass Plant)

10 seats rental van (9 seats excluding driver) is available。

Leave Best Western Nada Don Mueang Airport Hotel at 7:00am on Oct. 19 from



2-stage Anaerobic Baffled Reactor with 200kW electricity

10 tons/day raw materials including cassava pulp, microbial sludge

3-stage gasification technology with 200kW electricity

10 tons/day agricultural residues

日本の事例紹介 - Japan case study 岡山県真庭市 バイオマス発電所

Biggest biomass power plant at Okayama prefecture, Maniwa city



Maniwa Biomass power plant
Established in 2015, 10,000KW/day
Operated by Maniwa city and companies



Biomass stock yard



Check moisture content when biomass is delivered.

Good price for 50% or less moisture
Biomass is used for combustion
when moisture content become less
than 35%. QR system for biomass
material.

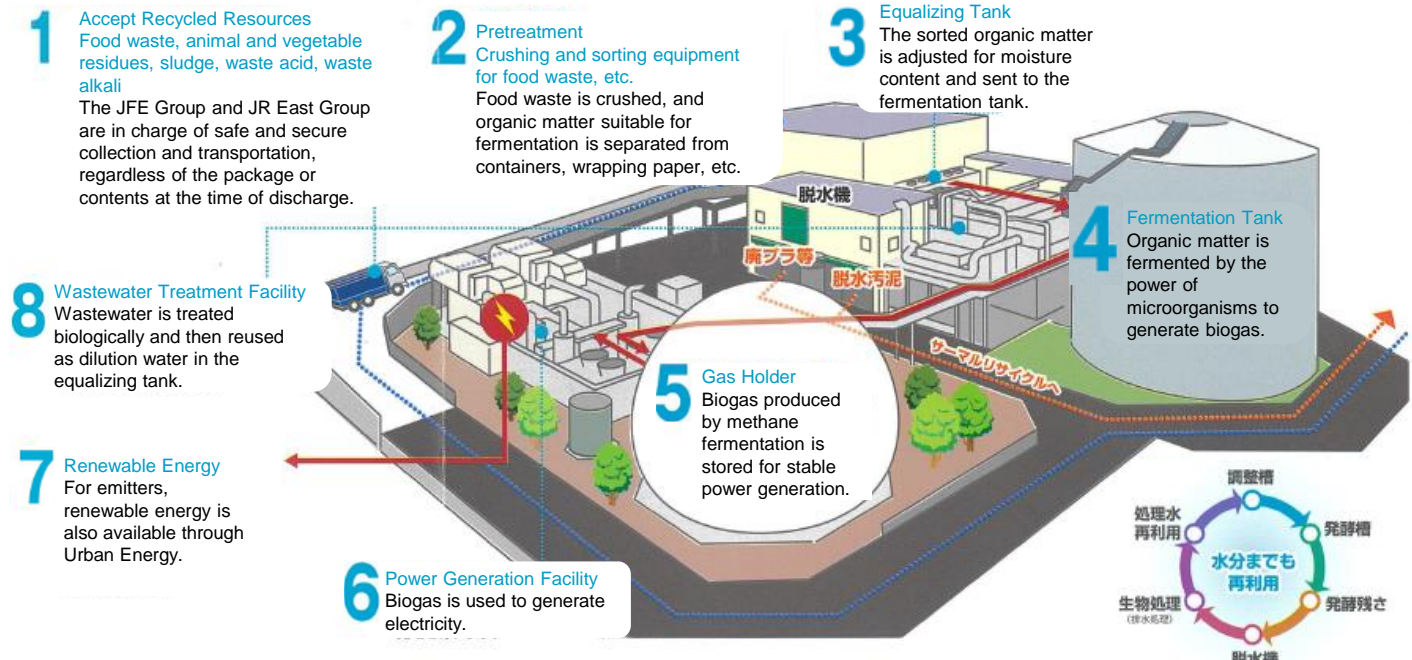
Very good collaboration between
local government, and wood related
companies and associations

日本の事例紹介 - Japan case study 横浜市鶴見区 Jバイオフードリサイクル J BiO-Food Recycle at Yokohama city



Biomass power plant using methane CH_4 gas fermented by dedicated tank kept at 37degree C with stirring.

Food waste 80t/day, 900kw x 2 power (+780kw) 24 hours operation. Also produce fertilizer. Contract with food products manufacturer and restaurant.



Thank you