

The 1st Japan-ASEAN Multi-Stakeholder Strategic Consultancy Forum

Program

“Theme: Sustainable energy, featuring mainly bioenergy”

Co-organized by MHESI and MEXT
Supported by NSTDA, TISTR and JST
Coordinated by ASEAN Secretariat

Saturday, October 12th, 2019
BITEC (Bangkok International Trade & Exhibition Centre), Bangkok, THAILAND
Hall 98 (Mainstage, Workshop 3, Workshop 4)

Plenary Session 1 (9:15 – 10:15)

9:15 – 10:15

Opening and keynote speeches

- **Welcome remarks**
 - Assoc. Prof. Soranit Siltharm, M.D., Permanent Secretary, Ministry of Higher Education, Science, Research and Innovation (MHESI) (Thailand)

- **Introduction to the Forum**
 - Mr. NITTA Koshi, Director, International Science and Technology Affairs Division, Science and Technology Policy Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT) (Japan)

- **Technologies for Sustainable Bioenergy**
 - **Case of SATREPS for Japan-ASEAN Cooperation -**
 - Dr. YAMAJI Kenji, Senior Vice President / Director-General of the Research Institute of Innovative Technology for the Earth (RITE); Emeritus Professor of the University of Tokyo (Japan)

- **Business trend of sustainable energy**
 - **Smart Microgrid Energy on Cloud -**
 - Assoc. Prof. Dr. Wattanapong Rakwichian, Director of School of Renewable Energy and Smart Grid Technology, Naresuan University (Thailand)
 - Dr. Yodthong Mensin, Deputy Director of School of Renewable Energy and Smart Grid Technology, Naresuan University (Thailand)

Focus Group Discussion 1 & 2 (10:30 – 12:00)

R&D stakeholders and prospective social implementation stakeholders will discuss based on specific Japan-ASEAN collaborative research project with a high potential to initiate practical consideration of social implementation of research outputs.

10:30 – 12:00	<p>Focus Group Discussion 1: H-FAME</p> <ul style="list-style-type: none">● High quality biodiesel (H-FAME) production technology <p><u>Moderator</u></p> <ul style="list-style-type: none">● Dr. Chen Shih-Yuan, Senior researcher, Department of Energy and Environment, Research Institute of Energy Frontier, National Institute of Advanced Industrial Science and Technology (AIST) (Japan) <p>- “Introduction of H-FAME production technology and future prospects”</p> <ul style="list-style-type: none">● Dr. MOCHIZUKI Takehisa, Senior researcher, Department of Energy and Environment, Research Institute of Energy Frontier (RIEF), National Institute of Advanced Industrial Science and Technology (AIST) (Japan)● Mr. KATAOKA Shigeaki, Assistant to General Manager, Overseas Biofuel Development, Energy Solution Business Department, Idemitsu Kosan Co., Ltd. (Japan) <p>- Panel Discussion</p> <p>“High-level biodiesel blends for automotive utilization in ASEAN”</p> <ul style="list-style-type: none">● Mr. YOSHIDA Yukio, Vice President, Technical External Affairs Division, Toyota Daihatsu Engineering & Manufacturing Co., Ltd. (Japan)● Dr. Nuwong Chollacoop, Renewable Energy Research Team Leader, National Metal and Materials Technology Center (Thailand)● Mr. Imam Paryanto, Deputy Assistant of Agro and Pharmaceutical Industries 1, Ministry of State Owned Enterprises (Indonesia)● Dr. Chen Shih-Yuan <p>- Q&A</p>
10:30 – 12:00	<p>Focus Group Discussion 2: Biomass to oil</p> <ul style="list-style-type: none">● Cascade utilization of oil seeds from Inedible and waste biomass for the production of renewable fuel and non-fossil chemicals <p><u>Moderator</u></p> <ul style="list-style-type: none">● Ms. OHARA Ai, Director, Innovation Acceleration Group, Japan Innovation Network (Japan) <p>- “Cascade Utilization of Oil Seeds from Inedible and Waste Biomass for the Production of Renewable Fuel and Non-fossil Chemicals”</p> <ul style="list-style-type: none">● Prof. MAEDA Yasuaki, Osaka Prefecture University (Japan) <p>- “Multi-beneficial Contribution for Mitigation of Global Scale Micro-plastics Pollution and Global Warming by Effective Utilization of Biomass for Renewable Materials in ASEAN Countries”</p> <ul style="list-style-type: none">● Dr. KANEHASHI Shinji, Assistant Professor, Graduate School of Engineering, Tokyo University of Agriculture and Technology (Japan) <p>- Comments</p> <ul style="list-style-type: none">● Prof. Luu Van Boi, Vietnam National University Hanoi, Director of Biomass Center (Vietnam)● Prof. Paritud Bhandhubanyong, Acting Dean for the Faculty of Logistics and Acting Head of Department for Automotive Manufacturing Engineering in the Faculty of Engineering and Technology, Panyapiwat Institute of Management (Thailand)● Prof. Penjit Srinophakun, Bioprocess Engineering Department, Faculty of Engineering, Kasetsart University, President of Thai Society for Biotechnology (Thailand)● Mr. MATSUBARA Takeo, Yanmar Co., Ltd. Former Director of Agricultural Institute in Can Tho University in Vietnam and Institute Pertanian Bogor in Indonesia● Prof. KAWAI Eiichi, Guest Professor in Organization for Advancement of Education and Global Learning, Visiting Professor and Representative in ASEAN Office (Thailand) <p>- Discussion</p>

Focus Group Discussion 3 & 4 (12:45 – 14:15)

R&D stakeholders and prospective social implementation stakeholders will discuss based on specific Japan-ASEAN collaborative research project with a high potential to initiate practical consideration of social implementation of research outputs.

12:45 – 14:15

Focus Group Discussion 3: Palm biomass

- Promotion of integrated green economy from palm oil industry by using palm biomass

Moderator

- Ms. OHARA Ai, Director, Innovation Acceleration Group, Japan Innovation Network (Japan)
- [“Summary of our SATREPS Program ‘Promotion of Green economy with Palm Oil Industry for Biodiversity Conservation in Malaysia’ 2013-2017”](#)
 - Dr. SHIRAI Yoshihito, Professor, Kyushu Institute of Technology (Japan)
- [“Introduction of Today’s Topics to be Discussed Here”](#)
 - Dr. SHIRAI Yoshihito, Professor, Kyushu Institute of Technology (Japan)
- [“Our Policies for Promoting Green Economy in Malaysia”](#)
 - Dr. Mohd. Ali Hassan, Professor, University Putra Malaysia (Malaysia)
- [“New Technologies Developed in Our SATREPS Program –Nano Cellulose and its Composites”](#)
 - Dr. Hidayah Ariffin, Assoc. Professor, University Putra Malaysia (Malaysia)
 - Dr. ANDOU Yoshito, Assoc. Professor, Kyushu Institute of Technology (Japan)
- [Comments](#)
 - Mdm. Nordina Idris, Undersecretary, Division of Strategic Technology and S&T Application, Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) (Malaysia)
 - Mr. Mohamad Azri Sukiran, Research Officer, Energy and Environment Unit, Engineering and Processing Research Division, Malaysia Palm Oil Board (MPOB) (Malaysia)
- [Q&A](#)

12:45 – 14:15

Focus Group Discussion 4: Sugarcane trash/ Algal bioenergy

4-1 Integrated biorefinery of sugarcane trash

4-2 Development of algal bioenergy systems for green and sustainable ASEAN region

Moderator

- Prof. OHGAKI Hideaki, JASTIP-WP2, Kyoto University (Japan)
- [Introduction](#)
 - Prof. OHGAKI Hideaki, JASTIP-WP2, Kyoto University (Japan)
- [“Integrated biorefinery of sugarcane trash”](#)
 - Prof. WATANABE Takashi, Kyoto University (Japan), Dr. Verawat Champreda and Dr. Benjarat Bunternngsook, National Center for Genetic Engineering and Biotechnology (BIOTEC) (Thailand)
- [“Mitr Phol activities and possible cooperation”](#)
 - Dr. Morakot Sakulsombat, Deputy Manager, Bio-Based Chemicals and Energy, Mitr Phol Sugarcane Research Center Co., LTD (Thailand)
- [“Development of Algal Bioenergy Systems for Green and Sustainable ASEAN Region”](#)
 - Prof. Suttichai Assabumrungrat, Chulalongkorn University (Thailand), Prof. Joseph Auresenia, De La Salle University (Philippines) and Dr. Siti Zullaikah, Sepuluh Nopember Institute of Technology (Indonesia)
- [“Introduce Algal Excellence Centre, TISTR, and related contract projects”](#)
 - Dr. Sophon Sirisattha, Algal Excellence Centre, Thailand Institute of Scientific and Technological Research (TISTR) (Thailand)

Pitches of Active Researchers (14:30 – 16:30)

Active researchers from ASEAN countries and Japan make a pitch for their research and/or research findings related to Sustainable Development Goals (SDGs) so that they can find partners in ASEAN or Japan for new collaborative research or practical application of their research findings.

14:30 – 16:30

Active researchers seeking for partners in ASEAN or Japan for new collaborative research or social implementation of research outputs

Moderator

- Dr. Nuwong Chollacoop, NSTDA (Thailand)

Presenters

- Dr. Gustaf Godenhielm, RE Power Service Co, Ltd (Thailand)
- Dr. Wirulda Pootakham, National Science and Technology Development Agency (NSTDA) (Thailand)
- Dr. Kanjana Tuantet, Thailand Institute of Scientific and Technological Research (TISTR) (Thailand)
- Dr. Benjarat Bunternngsook, National Center for Genetic Engineering and Biotechnology (Thailand)
- Mr. Chithisack Khansukivong, Ministry of Science and Technology (Lao PDR)
- Ms. Phouthasone Sinthavong, Ministry of Science and Technology (Lao PDR)
- Dr. Mohd Radzi Abu Mansor, Universiti Kebangsaan Malaysia (Malaysia)
- Dr. Masita Mohammad, Universiti Kebangsaan Malaysia (Malaysia)
- Dr. Leah Buendia, Department of Science and Technology (Philippines)
- Dr. ASHIDA Ryuichi, Faculty of Chemical Engineering, Kyoto University (Japan)
- Prof. SHIRAI Yoshihito, Kyushu Institute of Technology (Japan)

Plenary Session 2 (16:30 – 17:00)

16:30 – 17:00

Wrap-up and report from four FGDs and Pitches

Report

- **[FGD 1]** Dr. Chen Shih-Yuan, Senior researcher, Department of Energy and Environment, Research Institute of Energy Frontier, National Institute of Advanced Industrial Science and Technology (Japan)
- **[FGD 2&3]** Ms. OHARA Ai, Director, Innovation Acceleration Group, Japan Innovation Network (Japan)
- **[FGD 4]** Prof. OHGAKI Hideaki, JASTIP-WP2, Kyoto University (Japan)
- **[Pitch]** Dr. Nuwong Chollacoop, NSTDA (Thailand)

Closing remarks

- Mr. KOBAYASHI Osamu, Director, Department of International Affairs, Japan Science and Technology Agency (JST) (Japan)
- Dr. Aparat Mahakhant, Deputy Governor, Research & Development Group for Sustainable Development, Thailand Institute of Scientific and Technological Research (TISTR) (Japan)