



# Summary of the e-ASIA JRP Workshop on Biomass Energy Technology

co-organized by Ministry of Science and Technology (MOST)  
Japan Science and Technology Agency (JST)  
e-ASIA JRP Secretariat

31 October to 1 November, 2016  
Family Boutique Hotel, Vientiane Capital,  
Lao People's Democratic Republic (Lao P.D.R.)

# Overview



## ➤ Workshop Theme

- ✓ *Green and Renewable Energy Technology for Sustainable Environment : From Technology to Sustainability*

## ➤ Focus Topics

- ✓ *Biomass Production and Management*
- ✓ *Biomass Energy Technology*
- ✓ *Biorefinery*

## ➤ Participants

- ✓ *22 invited speakers*  
*(Lao PDR, Malaysia, Myanmar, Thailand, Vietnam, Japan)*
- ✓ *57 participants*

# Objectives



- *Discuss hot topics of “Renewable Biomass Energy Technology” among eminent researchers and influential research institutional representatives, leading to sustainable future development in Asian countries.*
- *Explore potential future collaborative research areas in the field of biomass energy, and create potential international joint research teams through active discussion.*
- *Establish tight researcher network among participants for better and growing collaboration.*

# Agenda



## ➤ Workshop Coordinators

- ✓ *Dr. Silap Boupha (MOST, Lao PDR)*
- ✓ *Dr. Kinya Sakanishi (The National Institute of Advanced Industrial Science and Technology, Japan)*

## ➤ Plenary Session Talks

- ✓ *Renewable Energy Development Status in Lao PDR*
- ✓ *Introduction to e-ASIA JRP Activities*
- ✓ *Invitation to Japan-ASEAN Science, Technology and Innovation Platform (JASTIP)*
- ✓ *Expectation to this e-ASIA International Workshop*

# Agenda



## ➤ Technical Sessions

- ✓ *Biomass Production and Management (7 invited talks)*
- ✓ *Biomass Energy Technology (8 invited talks)*
- ✓ *Biorefinery (7 invited talks)*

## ➤ Poster Session by all Presenters

- ✓ *Encourage face-to-face communication among participants*

## ➤ Panel Discussion

- ✓ *Discussion and adoption of the workshop observations and recommendations*
- ✓ *Identify potential research areas and topics for future collaboration*

# Photos





# Photos



# Photos





# Conclusions



## ➤ ASEAN Region

- ✓ *Shares many common issues such as shortage of energy and environmental problems.*
- ✓ *Rich in biomass resources and needs industrialized.*
- ✓ *Has huge potential in biomass energy technology development and applications.*

## ➤ Towards Multilateral Collaboration

- ✓ *Pursue synergistic, supplemental and leveraged effects by multilateral cooperation.*
- ✓ *Establish and amplify equal partnerships and scientific research management.*

# Conclusions



## ➤ Example of Possible Collaboration Projects

- ✓ *Biomass Production and Management in Secondary Forests and Plantations (Lao PDR, Thailand, Myanmar, Japan)*
- ✓ *Biomass Refinery for Bioethanol Production (Thailand, Indonesia, Vietnam, Lao PDR, Japan)*
- ✓ *Production and Quality Control of New Bio-Diesel Fuels (Malaysia, Lao PDR, Japan)*
- ✓ *Lignin Properties, Cellulose Utilization, Pretreatment Technology (Japan, Thailand, Malaysia, Indonesia, Lao PDR, Myanmar, Cambodia, Vietnam, The Philippines)*
- ✓ *Agricultural Utilization for Biodegradable Materials (Japan, Thailand, Malaysia, Indonesia, Lao PDR, Myanmar, Cambodia, Vietnam, The Philippines)*

# Conclusions



## ➤ What can be expected from e-ASIA JRP Collaboration in Biomass Energy Technology

- ✓ *Low carbon society and sustainable development of primary and secondary industries.*
- ✓ *Partnerships for mutual contribution including sustainable network of researchers in the region.*
- ✓ *Nurturing human resources through research collaboration and researchers' exchange.*



**Thank you  
for your strong support.**