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## 3<sup>RD</sup> BIOENERGY AND ELECTRIFICATION WORKSHOP

### ON SUSTAINABILITY AND RESILIENCE OF BIOENERGY FOR CLIMATE CHANGE: GREEN BUSINESS AND SYNERGY ACTION FOR CLIMATE CHANGE MITIGATION AND ADAPTATION TO REALIZE 100% ELECTRIFICATION RATE AND CLIMATE SMART AGRICULTURE CONCEPT NOTE

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8-11 APRIL 2018

CAU CHOCOLATES FACTORY, TABANAN  
FIELD TRIP, JEMBRANA  
UNIVERSITY OF UDAYANA, DENPASAR  
GRAND BALISANI SUITE, CANGGU  
BALI - INDONESIA

#### OVERVIEW

The 3<sup>rd</sup> International Workshop on Sustainability and Resilience of Bioenergy for Climate Change is the last part of a series of annual bio-energy workshops, taking place from 2016 to 2018, which is organized as a joint initiative of the Ministry of National Development Planning of Indonesia (Bappenas), Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG), and the European Commission (EC) Horizon2020 projects: GreenWIN and TRANSrisk. The general objective is to accelerate bioenergy development and promote climate change mitigation and adaptation pathways in Indonesia through the:

- EC GreenWIN aims to identify green solutions that already exist at a specific location in specific sectors, help them spread to other locations and other sectors, and identify how incentive structures should be changed in order to create innovative business models. It will assess the practical feasibility of implementing green growth strategies to meet mitigation, adaptation and sustainability goals.
- EC TRANSrisk aims to bring together quantitative models and qualitative approaches, focusing on participatory consultations with stakeholders as a link between the policy approaches. The Indonesian case provides an opportunity to analyze the sustainability and climate resilience of low carbon transition pathways comprising of biofuels made from wastes and residues that are technically and economically feasible and acceptable from a social and environmental viewpoint.

During the second workshop in 2017<sup>1</sup>, experts, stakeholders, and biogas users concluded that while there is a considerable opportunity for the continuation of biogas development in Bali, many critical barriers are also needed to be addressed further. Furthermore, synergy of biogas utilization and value-adding activities were concluded as the key activities to increase biogas diffusion rate. Future activities will focus on connecting stakeholders, with each of them having their own role to play on the biogas development.

The third workshop aims to shed further light on the opportunities of biogas and related climate smart agriculture in Indonesia with critical reflections on the associated risks and barriers, developed from the preliminary session with Bappenas and models from previous workshop. Concrete pilot projects of the value-adding activities of agricultural products utilizing biogas and BMKG's Climate Field School will be showcased during a field trip. Finally, group exercises will be facilitated focusing on creating a mechanism to ease the collaboration between researchers, policy makers, and biogas users to further align the knowledge supply from the researchers and the knowledge need of the policy makers.

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<sup>1</sup> Final report of the 2<sup>nd</sup> workshop results can be accessed [here](#).

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## WORKSHOP OBJECTIVES

The main objectives of the 2018 workshop are to:

- i. Explore the biogas sector further based on scientific assessments including the diffusion and econometric models
- ii. Explore sustainable, resilient, and scalable business revolving on synergizing biogas and agriculture value adding activities.
- iii. Connecting the policy makers, researchers, and biogas users to further align the knowledge supply from the researchers and the knowledge need of the policy makers.

## PROGRAMME DETAILS

A draft agenda will be made available in due course and upon confirmation of all speakers.

### TWO DAYS TRIP – FIELD VISIT

#### DAY 1 - SUNDAY, 8 APR 2018

TIME	ACTIVITY
14.00	Trip to Cau Chocolates Factory
15.00	Cau Chocolates Factory visit Kabupaten Tabanan
16.30	Trip to Pengeragoan beach
18.00	Dinner in Pengeragoan beach
19.30	Continued trip to Jembrana
20.30	Check-in to Jimbarwana Hotel
21.00	Free time

#### DAY 2 - MONDAY, 9 APR 2018

TIME	ACTIVITY
08.00	Breakfast and check-out
09.00	Trip to Modengsari Village
09.30	Visit Pak Cakra's coffee farm and biogas installation <i>Warnasari village, Melaya district, Jembrana regency</i>
11.30	Climate Field School visit
12.30	Traditional Balinese lunch
13.30	Visit to Pak Ketut's cocoa farm and removable biogas installation <i>Modengsari village, Melaya district, Jembrana regency</i>
15.30	Trip back to Canggu
18.00	Check-in Grand Balisani Suite
18.30	Free time

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DAY 3 - TUESDAY, 10 APR 2018 @UNIVERSITY OF UDAYANA-DENPASAR

TIME	ACTIVITY
08.30-09.30	<b>Registration</b>
09.30-09:35	<b>Welcome Speech and Opening</b> Prof. Dr. Dr. A. A. Raka Sudewi - Rector of Udayana University
09.35-09.45	<b>Recalling 1<sup>st</sup> and 2<sup>nd</sup> bioenergy workshop</b> Cynthia Juwita Ismail, su-re.co
	<b>Policy Session</b>
09.45-10.00	<b>Policy related to bioenergy and electricity</b> Ms. Syamsidar Thamrin – Senior Planner for Energy and Climate Change - Ministry of Planning and Development (Bappenas)
10.00-10.15	<b>Importance of Policy Dialogue: Connecting Policy Makers &amp; Researchers</b> Dr. Oliver Johnson, SEI
10.15-10.45	<b>Photo Session &amp; Coffee Break (Networking)</b>
	<b>Mitigation and Energy Session</b>
10.45-11.00	<b>Bioeconomy, climate and innovation with a focus on electrification and bioenergy</b> Dr. Francis X. Johnson, SEI
11.00-11.15	<b>Value Creation Bioslurry</b> Lina Moeis, Yayasan Rumah Energi (YRE)
11.15-11.30	<b>Biogas and electrification</b> Prof. Tjokorda Tirta Nindya, Universitas Udayana
11.30-12.15	<b>Panel Discussions:</b> <ul style="list-style-type: none"> <li>• <i>Connecting Policy and Science : How we can improve science and policy engagement from both sides?</i></li> <li>• <i>Renewable Energy on Climate Change Mitigation : How can we make/support bioenergy markets?</i></li> </ul>
12.15-13.30	<b>Lunch</b>
	<b>Adaptation and Synergy</b>
13.30-13.45	<b>Climate Field School</b> I Wayan Andi Yuda – Representative of BMKG-Station of Climatology Negara-Bali
13.45-14.00	<b>Using an integrated assessment model to assess the opportunities and challenges for developing bioenergy</b> Dr. Brad Stelfox, Alces Group
14.00-14.15	<b>Synergizing : Poverty Eradication and Resilient Livelihoods : Indonesia, South Africa, India cases</b> Prof. Louis Lemkow, UAB and Dr. Takeshi Takama, su-re.co
14.15-14.30	<b>Introduction of Activities and Funding Opportunities</b> Masaki Sato, director of Singapore office, Japan Science and Technology Agency

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14.30-15.30	<b>Panel Discussions:</b> <ul style="list-style-type: none"> <li>• <i>Enabling Adaptation Measures with Synergy with Mitigation : How to make your adaptation activities economically sustainable?</i></li> <li>• <i>Governance Mitigation and Adaptation Integrated with Policy : Which is more important, top-down or bottom-up, and why?</i></li> </ul>
15.30-16.00	<b>Coffee Break</b>

DAY 4 - WEDNESDAY, 11 APR 2018 @ GRAND BALISANI SUITE, OBEROI – BALI

TIME	ACTIVITY
09.30-09.35	<b>Introduction to Day 4</b>
09.35-10.30	<b>1) Focus Group Discussion (part I) : Biogas &amp; Electricity Generation E3ME Model to Analyse the Impact of Policies and considering the risks and uncertainties in biogas development</b>  Dr. Annela Anger-Kraavi, Cambridge, Susanne Hanger, ETH and Ms. Syamsidar Thamrin <b>Expected outcomes:</b> Area of science support on policy making & Risk and uncertainties insights  <b>2) Exercise Q-methodology:</b> <b>Perception of biogas development (for Farmers/Practitioners)</b>  Novelita W. Mondamina, su-re.co <b>Expected outcome:</b> Data collection
10.30-11.00	<b>Coffee break</b>
11.00- 11.45	<b>Focus Group Discussion (part II) : Biogas &amp; Electricity Generation E3ME Model to Analyse the Impact of Policies and considering the risks and uncertainties in biogas development</b>  Dr. Annela Anger-Kraavi, Cambridge, Susanne Hanger, ETH and Ms. Syamsidar Thamrin <b>Expected outcomes:</b> Area of science support on policy making & Risk and uncertainties insights  <b>Exercise biogas diffusion model: potential of local currency to foster biogas diffusion</b>  Prof. Antoine Mandel, Paris School of Economics
11.45-12.30	<b>Expected outcome:</b> Validation and more information for diffusion model
12.30-13.30	<b>Lunch</b>
13.30-15.20	<b>Focus Group Discussion: Green Business by Synergising Adaptation &amp; Mitigation of Climate Change - Sustainable Bioenergy Utilization and Renewable Electricity Generation Through Policy and Community Development</b>  Yudiandra Yuwono, su-re.co  <b>Expected outcome:</b> Business models/plan needs for science and policy
15.20-15.30	<b>Closing</b>
15.30-16.00	<b>Coffee break</b>

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**CONTACT US:**

FOR MORE INFORMATION, PLEASE CONTACT THE WORKSHOP COMMITTEE AT:

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