

# Project Update

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3E Nexus Initiative Secretariat







## New logo



Designed by Kensuke Yasui, expressing three elements work together to make one thing

## **Financing Programme for JCM Model Projects**

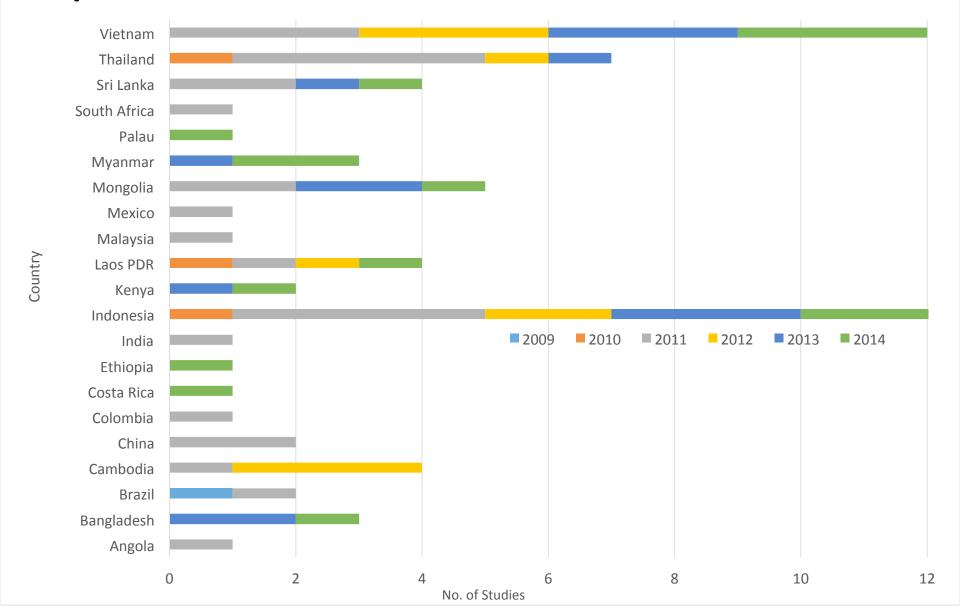
The budget for FY 2013:
1.2 billion JPY
(approximately \$13 million)

Finance part of an investment cost
(up to the half)

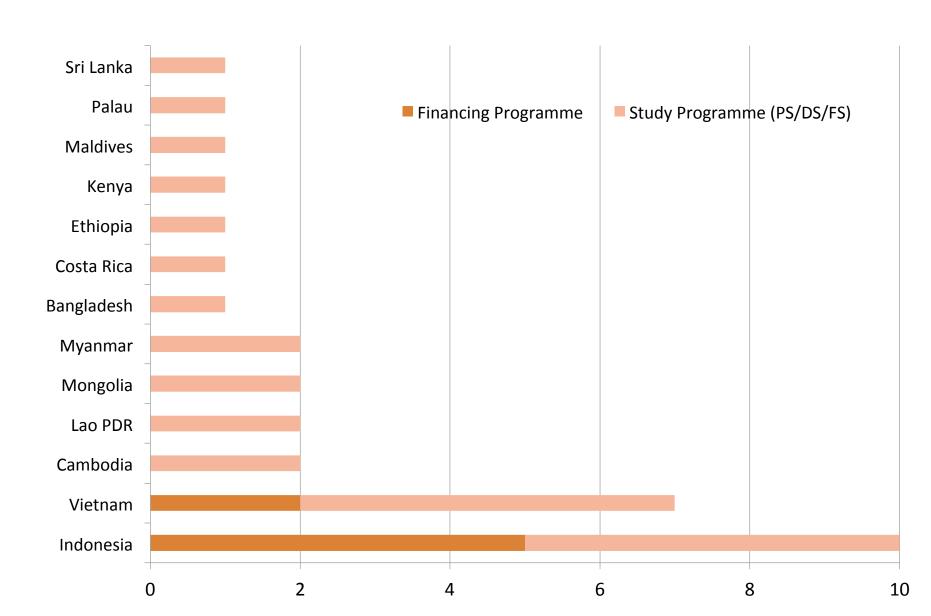
International consortiums
which include Japanese entities

- Scope of the financing: Facilities which reduce CO<sub>2</sub> from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- ➤ Eligible Projects: Starting construction after the adaption of the financing, and finish construction within that year (one year extension may be approved).

# Country-wise JCM Feasibility Studies of New Mechanism, JCM/BOCM and JCM in FY 2009 to FY 2014



## JCM Projects by Country in 2014



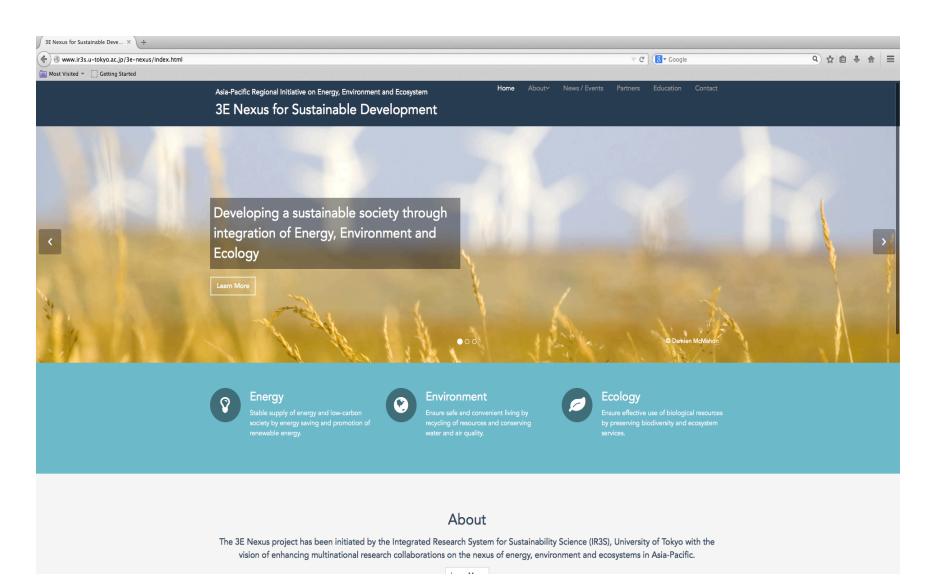
## The First 3E Nexus Initiative Annual Meeting



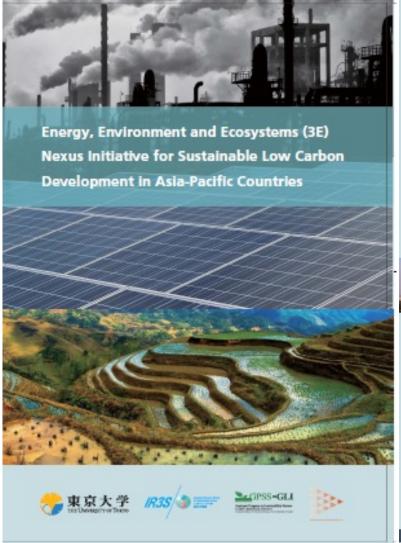
## Project outline of FY2014

- Project period: August 2014-March 2015
- Project activities:
  - Website development
  - Development of "one stop service network" in Bangladesh, Indonesia, Laos, Mongolia, and Vietnam
  - Workshop organized by national focal points at above countries
  - Annual meeting at Bali hosted by Indonesia

## Website of 3E Nexus



## Project brouchure



Climate change is a multidimensional problem at the nexus of energy, environment and ecosystems. In order to successfully tackle the issue of climate change, it is essential for both developed and developing countries to attain low-carbon growth by fully mobilizing technological and financial means through public-private cooperation. The country Japan energy system features diversified energy resources, high energy-savings and low-carbon technologies. Japan's advanced technologies can contribute to low-carbon growth more widely and expeditiously in developing countries. For this thought, Japanese government promotes Joint Credit Mechanism (ICM), which is designed to allow flexible technology transfer and mitigation measures can potentially reduce the greenhouse gas (GHQ) emissions in the developing Asia-Pacific countries. Furthermore, Japan aims to provide the technical know-how necessary to implement GHG emissions mitigation projects under this mechanism. The mechanism targets to facilitate the diffusion of advanced low-carbon technologies, products, systems, services and infrastructure, which advance mitigation action and contribution to global sustainable development. However, JCM is designed and implemented through robust methodologies that can ensure transparency and environmental integrity; avoid double-counting with regard to GHG emission reductions or removals; and be maintained as a simple and practical mechanism. The Japanese JCM intend to contribute the ultimate objectives of the United Nations Framework Convention on Climate Change (UNFCCC) by facilitating global actions for GHG emission reductions or removals, by complementing the Clean Development Mechanism (CDM).

The energy, environment and ecosystem (3E) Nexus initiative project is an effort to achieve the above. The Integrated Research System for Sustainability Science (IRSS), University of Tokyo with the vision of enhancing multimational research collaborations on low carbon development in Asia-Pacific countries has initiated the 3E-Nexus project. The project aims to advance mitigation actions by facilitating the diffusion of advanced low-carbon technologies, products, systems and infrastructure in line with the Japanese Joint Credit Mechanism (JCM). On the other hand, the project targets capacity development activities such as kick-off meetings, workshops, trainings to understanding on the institutional and technical aspects such as GHG emission reduction projects and Measuring, Reporting and Verification (MRV) methodologies of the JCM both at government and private sectors.







The first kick-off meeting of the 3E Nexus initiative on Asia-Pacific regional initiative on energy, environment and ecosystems for sustainable development was held in Maldives on 24-25th, February 2014. The main aim of this meeting was to discuss on how to implement the objectives of the 3E Nexus initiative.

#### Collaborative research network map



1	India	13	Bangladesh
2	Pakistan	14	China
3	Nepal	15	Philippines
4	India	16	Mongolla
5	Srl Lanka	17	Japan
6	Thalland	18	Indonesia
7	Cambodia	19	Indonesia
8	Laos PDR	20	Indonesia
9	Vietnam	21	FIJI
10	Malaysia	22	China
11	Singapore		
12	Vietnam		

## Newsletter

IR3S
3E NEXUS
PROJECT
NEWSLETTER

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#1 OCT.2014

ISSUE # 1 Oct. 2014

#### CONTENTS

Introduction of 3E nexus initiative	01
First Kick-off Meeting Report	02
Upcoming Events	
<ul> <li>Second General Meeting</li> </ul>	02
Calendar	
Information	03

Integrated Research System for Sustainability Science (IR3S)
The University of Tokyo
A newsletter on the 3E nexus initiative project
http://www.ir3s.u-tokyo.ac.ip/3e-nexus/index.html

#### INTRODUCTION OF 3E NEXUS INITIATIVE

Climate change is a multidimensional problem at the nexus of energy, environment and ecosystems. In order to successfully tackle the issue of climate change, it is essential for both developed and developing countries to attain low-carbon growth by fully mobilizing technological and financial means through public-private cooperation. Japan's advanced technologies can contribute to low-carbon growth more widely and expeditiously in developing countries. For this thought, Japanese government promotes Joint Credit Mechanism (JCM), which is designed to allow flexible technology transfer and mitigation measures can potentially reduce the greenhouse gas (GHG) emissions in the developing Asia-Pacific countries.



The energy, environment and ecosystem (3E) Nexus initiative project is an effort to achieve the above. The Integrated Research System for Sustainability Science (IR35), University of Tokyo with the vision of enhancing multinational research collaborations on low carbon development in Asia-Pacific countries has initiated the 3E-Nexus project. The project aims to advance mitigation actions by facilitating the diffusion of advanced low-carbon technologies, products, systems and infrastructure in line with the Japanese Joint Credit Mechanism (JCM).

#### IR38 3E NEXUS PROJECT NEWSLETTER ISSUE#1 OCT.2014

#### FIRST KICK-OFF MEETING REPORT

The first kick-off meeting of the 3E Nexus initiative on "Asia-Pacific region on energy, environment and ecosystems for sustainable development" was held in Maldives on 24-25<sup>th</sup>, February 2014. The main aim of this meeting was to discuss on how to implement the objectives of the 3E Nexus project.

For this we have invited leading specialists with a wide range of expertise on energy innovations, environmental technologies and ecological systems from Asia-Pacific countries



#### Collaborative research network

#### Targeted sectors by country-wise



Region	Country	Targeted Sector
East Asia	China, Mongolia	Ecosystems; Environment and Economy
South Asia	Bangladesh, Indla, Nepal, Pakistan, Srl Lanka	Energy Conservation; Ecosystems; Renewable Energy; GHG Emission and Mitigation; Environment and Economy
Southeast Asia	Cambodia, Indonesia, Laos PDR, Malaysia, Philippines, Singapore, Japan, Thailand and Vietnam	Energy Conservation; Ecosystems; Renewable Energy; GHG Emission and Mitigation; Environment and Economy; Environmental Technology
Pacific Region	FII	Energy Conservation

Participated countries are Bangladesh, Cambodia, China, Fiji, India, Indonesia, Japan, Laos PDR, Malaysia, Mongolia, Nepal, Pakistan, Philippines, Singapore, Thailand, and Vietnam

#### UPCOMING EVENT

The second general meeting will be held in Bali, Indonesia on 26-27<sup>m</sup>, February 2015 and it is a continuation meeting of 3E Nexus initiative project of "Energy, Environment and Ecosystems (3E) Nexus Initiative for Sustainable Low Carbon Development in Asia-Pacific Countries"

Tentative agenda of the meeting would be on the following issues

- Advanced low carbon technologies such as JCM and in order to understand co-benefits
- Engagement platform to regional partners, national and domestic level research institutions, academicians and scientists

# One stop service meetings

Meetings in Vietnam and Indonesia are shown as examples Meetings in Mongolia, Laos and Bangladesh were held in February

### Indonesia: "Workshop: Joint Crediting Mechanism (JCM)"

<u>Date</u>: Monday, January 19, 2015 <u>Location</u>: Centre for Environmental Studies, Bandung Institute of Technology (PSLH-ITB)

Time	Activity	3E Nexus Theme/ Comments
08.00 - 09.00	Registration	
09.00 - 09.15	<ul><li>Opening and Welcome address from IR3S and ITB</li><li>Brief Introduction of each participant</li></ul>	
09.15 – 10.15	First Speaker: Dr. Geetha Mohan, IR3S, The University of Tokyo	Introduction to 3E Nexus and Joint Credit Mechanism
10:15 – 10:45	Second Speaker: Ir. Emma Rachmawaty, "National Policy on Carbon Development Mechanism in Indonesia"	- Theme: Energy
10:45 – 11:15	Coffee break	
11:15 – 11:45	Third Speaker: Mr. Dicky Edwin Hindarto, Indonesia JCM Secretariat "The Current Development of the Joint Crediting Mechanism (JCM) in Indonesia"	- 3E Nexus Theme: Energy, Environment, and Ecosystems
11:45 – 12:15	Fourth Speaker: Prof. Rizaldi Boer from Head of CCROM (Center for Climate Risk and Opportunity Management) "REDD+ in Indonesia"	- Theme: Ecosystems
12:15 – 13:30	Lunch and Praying Time	
13:30 – 14:30	Skype conference - Participation via Skype: Prof. Kensuke Fukushi, IR3S, The University of Tokyo	
14:30 – 15:15	General Discussion	
15:15 – 15:30	Conclusions and closing remarks	

## Indonesia: "Workshop: Joint Crediting Mechanism (JCM)"

Name	Position and Organization
Dicky Edwin Hindarto, Aryanie Amellina	Secretariat JCM Indonesia
Widya Adi Nugroho	Renewable Energy & Energy Conservation – Ministry of Energy and Mineral Resources
Ir. Emma Rachmawaty	Assistant Deputy Minister for Mitigation and Atmospheric Function Preservatoin – Ministry of Environment and Forestry
Tulus Sibuea	Environmental Control Agency in West Java
Prof. Joni Hearmana	Institute of Teknologi Sepuluh November (ITS) – East Java
Dr. Retno Gumilang Dewi, Prof. Tjandra Setiadi, Dr. Yuli Setyo Indartono	Institute of Technology Bandung (ITB)
Prof. Rinaldy Dalimi	Indonesian University (UI)
Prof. Rizaldi Boer	Head of CCROM (Center for Climate Risk and Opportunity Management) – IPB
Dr. Udin Hasanuddin	University Lampung (UNILA)
Taufiq Shonhajih, Windri Aji Brata	Process & Quality Control, Biogas Engine (Wilmar Group)

Agency for Assessment and Application of Technology

Dr. Widiatmini Sih

Winanti



Participants Group Photo



Mr. Dicky, Head, JCM Indonesia

## <u>Vietnam</u>: "Exploring Opportunities and Challenges for Joint Crediting Mechanism Projects for Development of Low-Carbon Society in Vietnam"

<u>Date</u>: Saturday, January 24, 2015 <u>Location</u>: Vietnam National University Hanoi University of Science

Time	Description
8:30 - 9:00	Registration
9:00 - 9:10	Opening and welcome remarks by Prof. Dr. Phan Tuan Nghia, Vice Rector of VNU University of Science
9:10 - 9:20	Workshop introductory remarks by Prof. Dr. Mai Trong Nhuan VNU University of Science
9:20 – 9:35	Evolution of climate change policies and the Vietnam Panel on Climate Change by Dr. Luong Quang Huy, Department of Hydrology, Meteorology and Climate Change
9:35 - 10:05	Presentation on 3E-Nexus and JCM by Dr. Geetha Mohan, The University of Tokyo
10:05 – 10:20	Opportunities and challenges for JCM projects in Vietnam by Mr. Le Ngoc Tuan - Department of Hydrology, Meteorology and Climate Change
10:20 - 10:40	Coffee break
10:40 – 11:10	Roundtable discussion in 3 groups - Opportunities and challenges for JCM projects in Vietnam Future collaborations for developing JCM projects
11:10 – 11:20	Report of group 1 by Dr. Pham Van Tan, Department of Hydrology, Meteorology and Climate Change
11:20 – 11:30	Report of group 2 by Assoc. Dr. Hoang Dinh Phi, VNU Hanoi School of Business
11:30 – 11:40	Report of group 3 by Dr. Nguyen Tai Tue, VNU University of Science
11:40 – 11:50	Q & A and Suggestions
11:50 – 12:00	Conclusions and wrap-up by Prof. Dr. Mai Trong Nhuan
12:00 – 13:00	Lunch

## <u>Vietnam</u>: "Exploring Opportunities and Challenges for Joint Crediting Mechanism Projects for Development of Low-Carbon Society in Vietnam"



Participants Group Photo



Participants from Vietnam: about 30

#### **Participants from:**

- ☐ Academia/Researcher: Vietnam National University (business and science), Sea & Islands Research Center,
- □ Policymaker: Department of Hydrology Meteorology and Climate Change, at the Ministry of Natural Resources and Environment, Ministry of Planning and Investment, Ministry of Transportation, Ministry of Industry & Trade, Phu Tho Province, etc.
- <u>Business</u>: Bac Ha Investment Hydraulic Joint Stock Company, Fecon Co. Ltd., construction and environmental consultant, city gas company, water treatment, etc.
- □ Other: NGO, local news media

# Expectation from the donor for 3E nexus

- Ministry of the Environment appreciates effort done by all investigators from various countries
- Expecting us to develop (or assist to develop) a real project proposal
  - Investigating country's interest and priority of sector
  - Develop teams of host and Japanese industries and researchers
  - Develop proposal and apply for full scale JCM or FS
- Seminar with industries for proposal development or other idea for effective development of good proposals (proposal of good method is welcome)