

Updates of 3E Nexus Initiatives

Ken Fukushi, Ph.D.

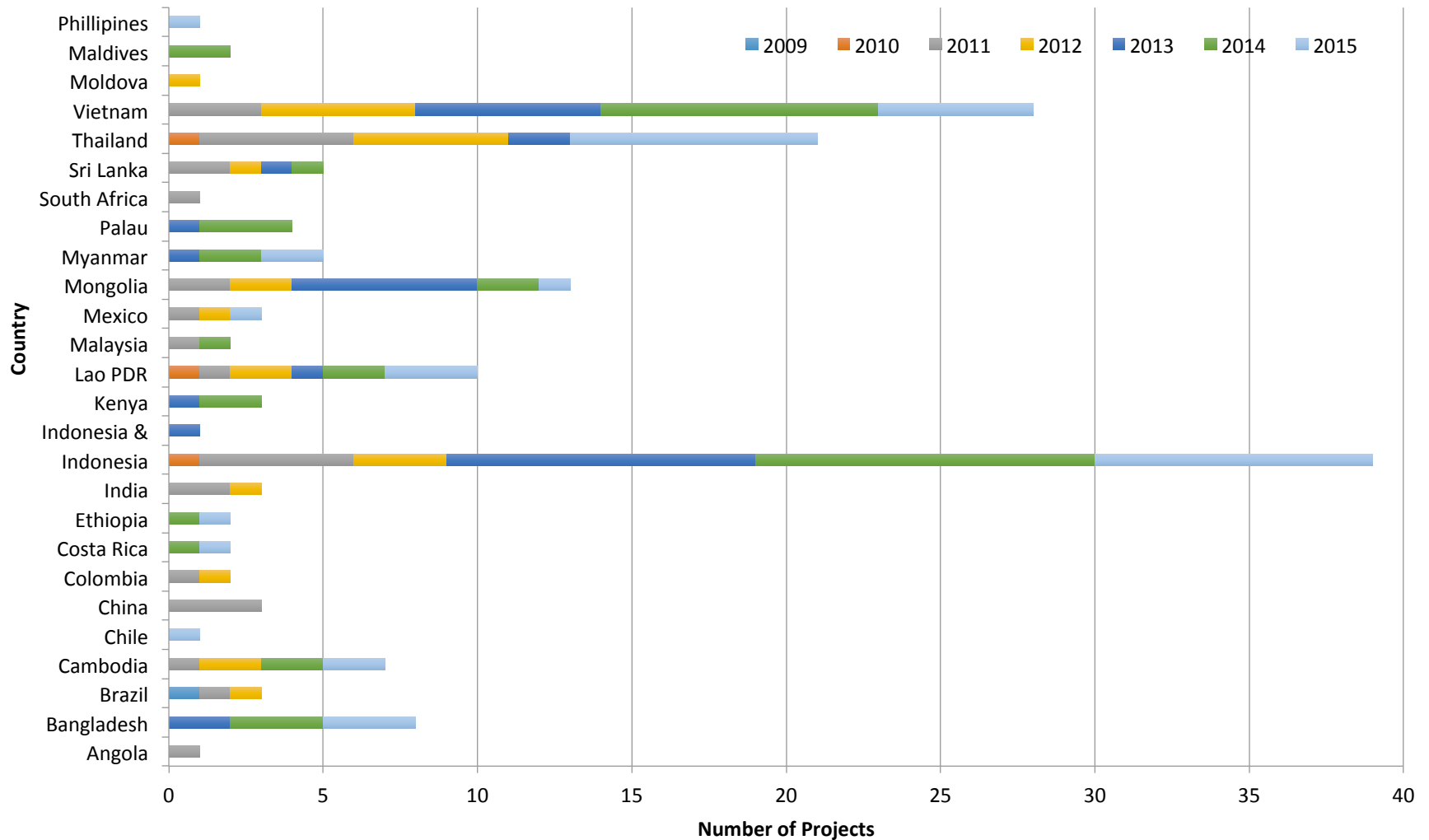
Professor, IR3S, The University of Tokyo

3E Nexus Initiative Secretariat

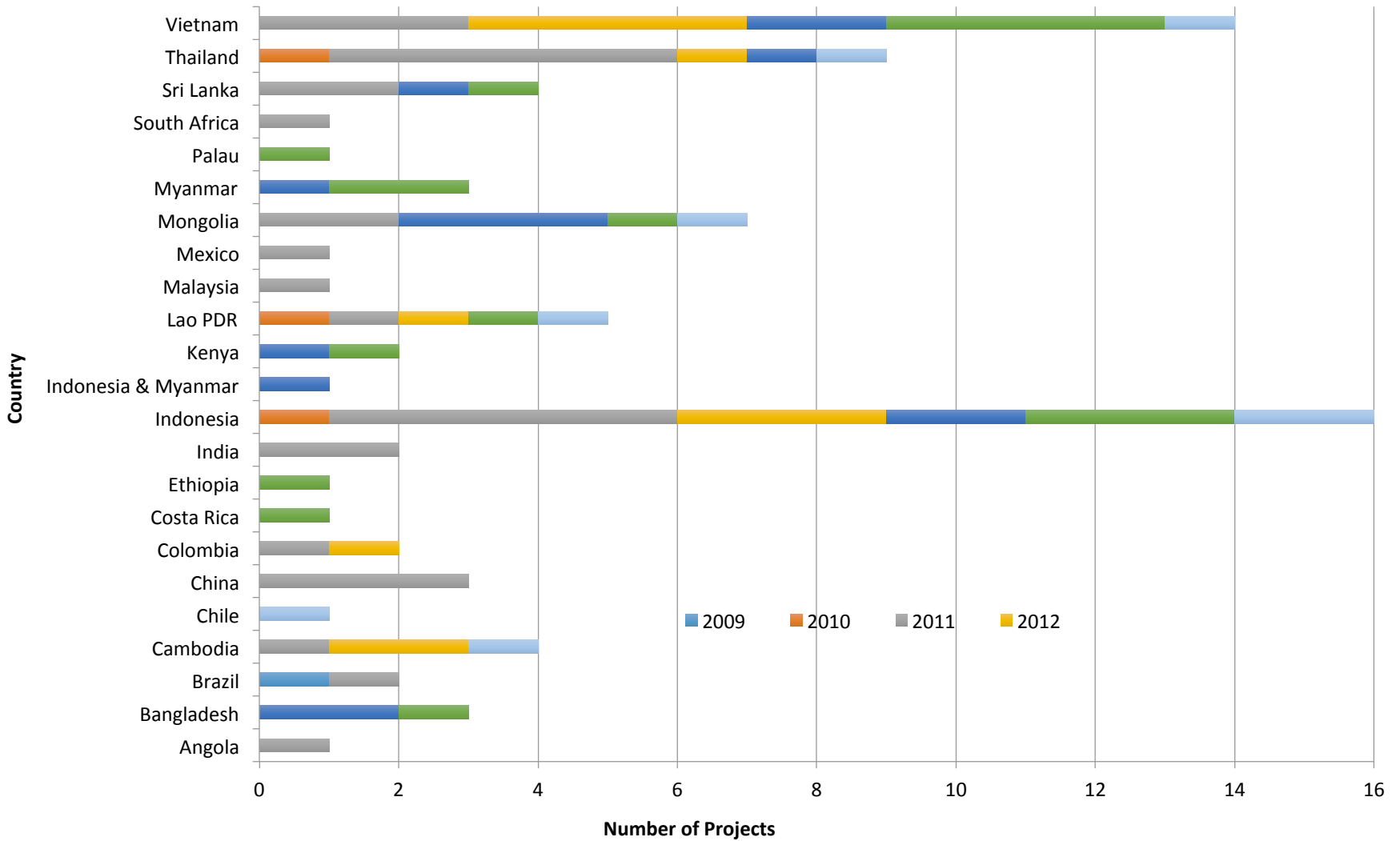
JCM Meeting at COP21



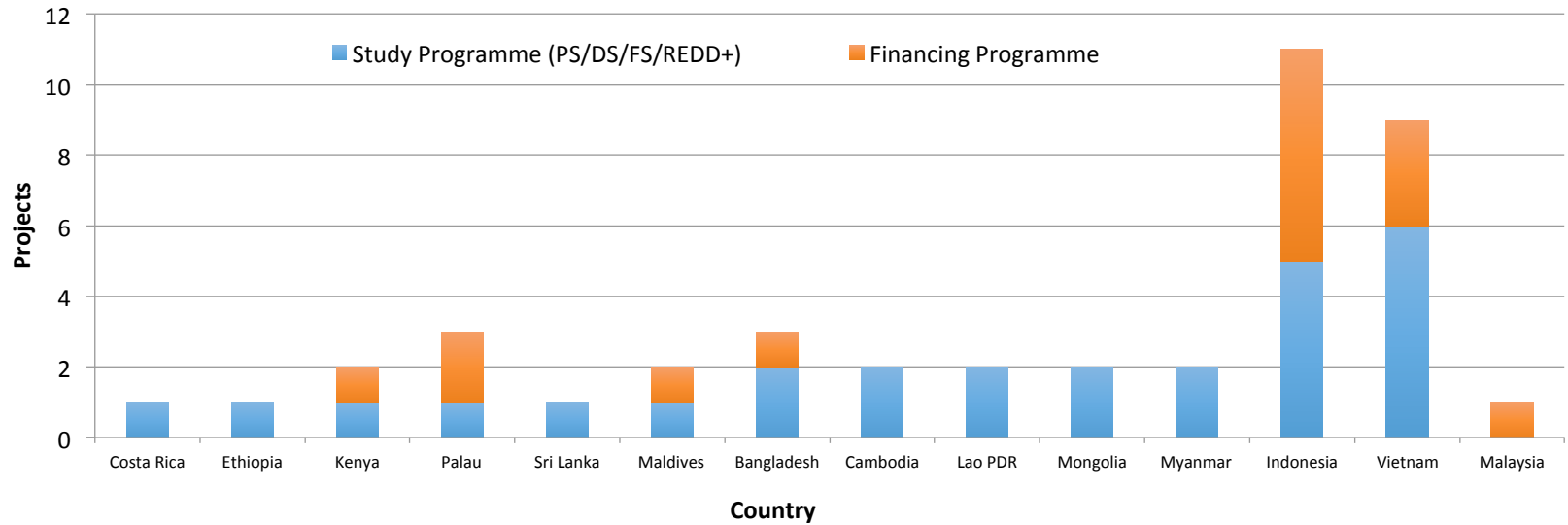
Country-wise JCM (Demonstration, Planning, Feasibility/BOCM, REDD+ and Model) Projects in 2009-2015



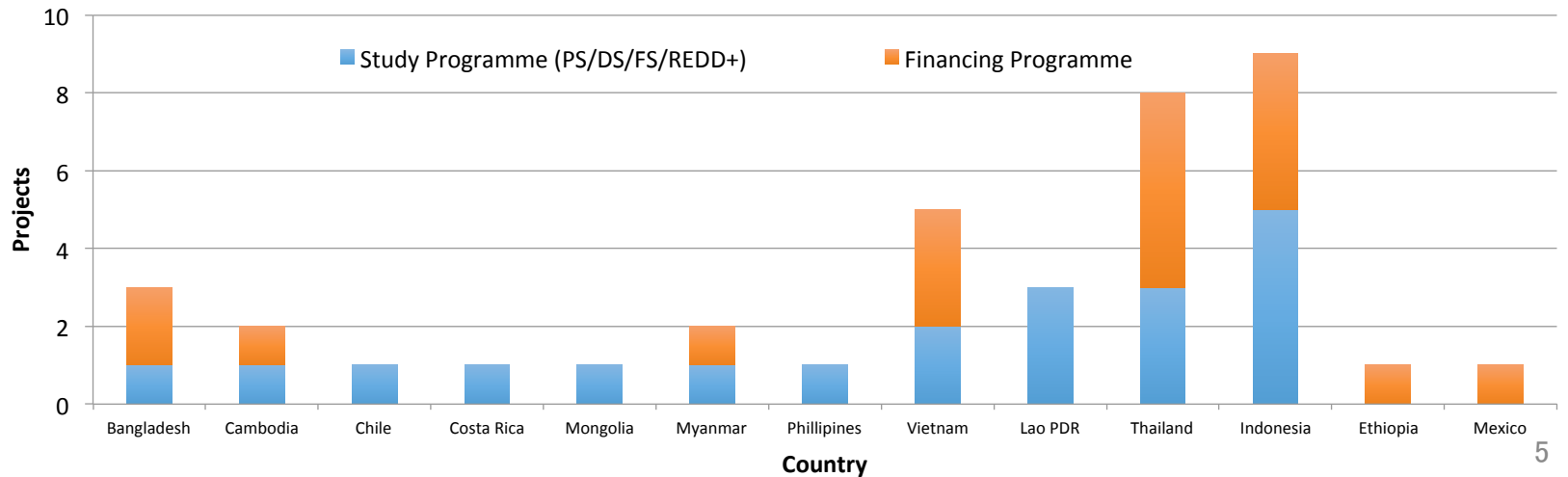
Country-wise Feasibility Studies of New Mechanism, JCM/BOCM, and JCM in FY 2009-2015



Country-wise JCM Projects in 2014

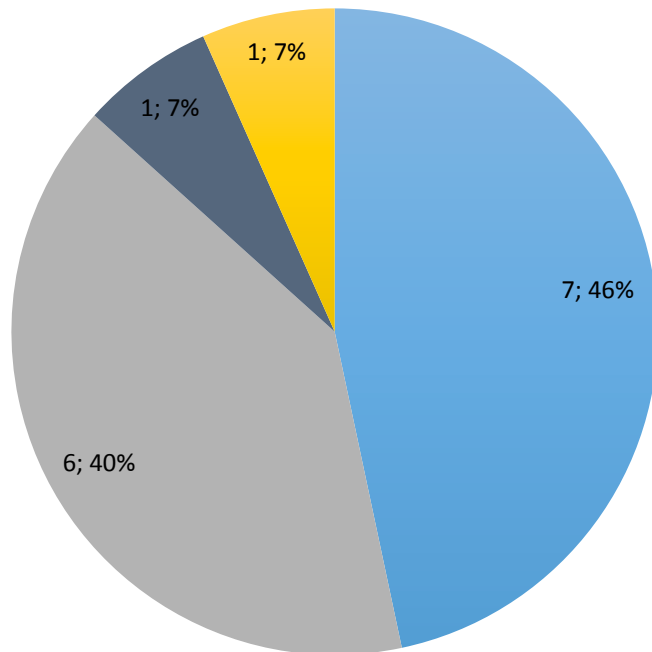


Country-wise JCM Projects in 2015



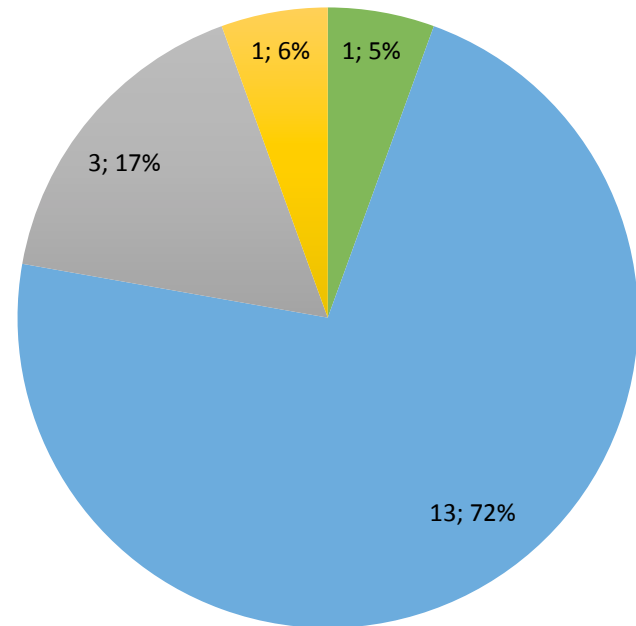
Sector-wise JCM Model Projects in 2014 & 2015

Model Projects in 2014



■ Energy Efficiency Improvement ■ Renewable Energy
■ Transport ■ Waste Management / Biomass Utilisation

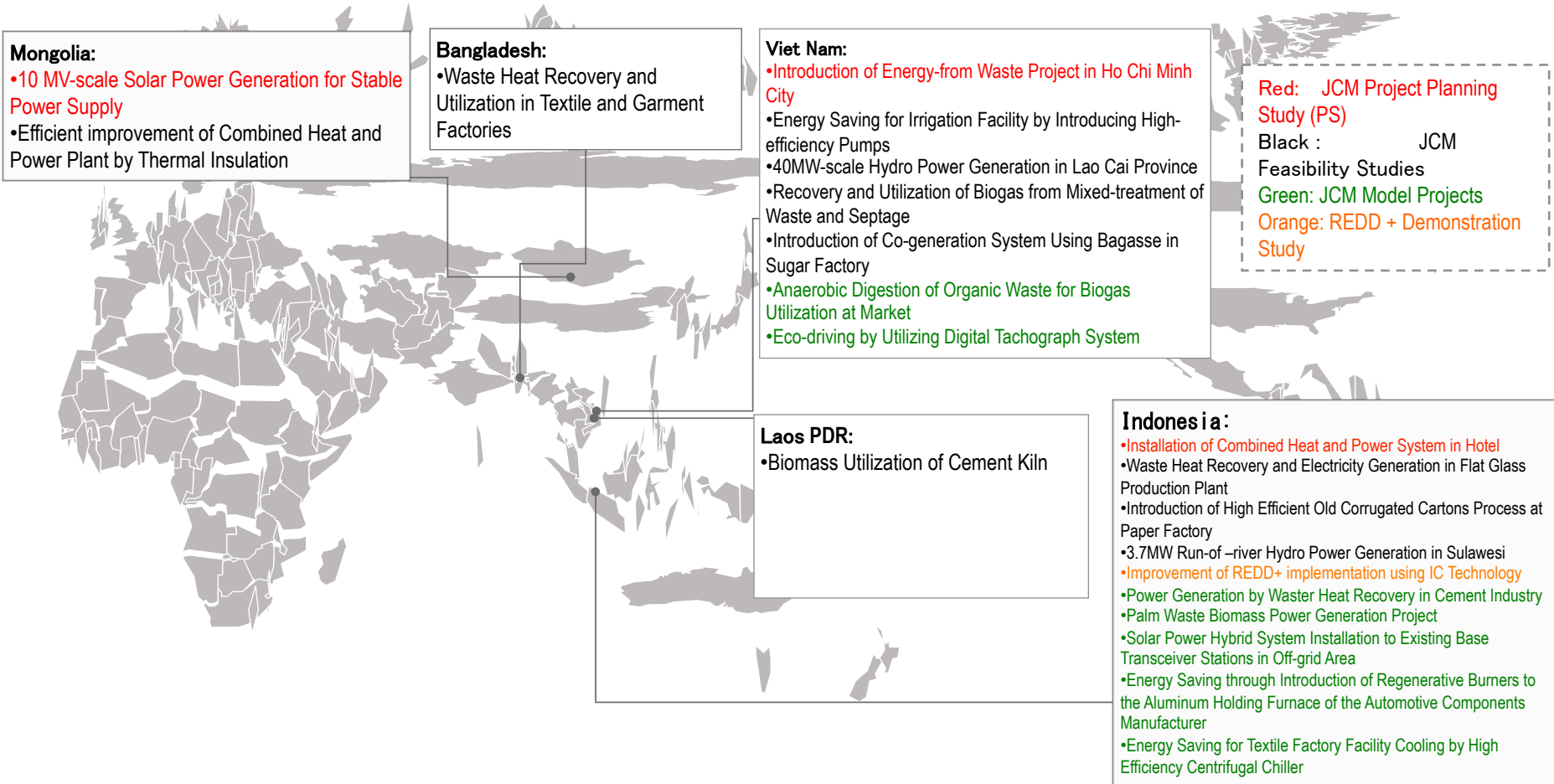
Model Projects in 2015



■ Biomass Utilisation ■ Energy Efficiency Improvement
■ Renewable Energy ■ Waste Management / Biomass Utilisation

Promoting JCM project formulation

JCM Feasibility Studies/Model Projects /REDD + Demonstration Study/Project Planning(2014)



Example of JCM Feasibility Studies/Model Projects / Demonstration Projects (2010 to 2013)

Mongolia:

- Upgrading and Installation of Centralized Control System of High-Efficiency Heat Only Boiler
- Energy-saving power transmission system
- Highly Efficient Transmission and Coal Power Plant
- Wind-Power Generation
- 10MW-scale solar power generation for stable power supply
- Energy conservation at cement plant
- Improvement of thermal installation and water cleaning/air purge at power plants

Bangladesh:

- Brick Production based on Non-Firing Solidification Technology
- CCGT Power Generation
- High-efficiency rice husk based cogeneration
- Solar power generation with long-life storage battery in non-electrified regions

Viet Nam:

- Integrated Energy Efficiency Improvement at Beer Factory
- Highly Efficient Coal Power Plants (Ultra Super Critical)
- Highly Efficient Air Conditioning
- Highly Efficient Transformer
- Water purification and sludge emission reduction
- Vehicle-mounted terminal (digital tachograph)
- Energy saving glass windows for buildings
- Small-scale biomass power generation

Red: JCM Model Projects
Green: JCM Demonstration Projects
Black: JCM Feasibility Studies

Kenya:

- Expansion of geothermal project
- Dissemination of Solar Lantern

Myanmar:

- Run-of-river Micro Hydro Power Generation
- Geothermal binary power generation

Maldives:

- Air conditioners by using deep sea water

Sri Lanka:

- Sustainable biomass-based power generation

Djibouti / Rwanda:

- Geothermal Power Generation

India:

- Energy Efficient Technologies for Integrated steel works
- Efficient Air Conditioners
- Utilization of LED Lights at Office Buildings
- High-Performance Industrial Furnaces to Aluminium Industry
- Bagasse-based Power Generation including Waste Heat Utilization

Laos:

- Energy saving at beer plant
- Forest conservation measures (REDD+)
- Promotion of use of electric vehicles

Mexico:

- CCS (Carbon dioxide Capture and Storage)

Indonesia:

- Energy Efficient Refrigerants to Cold Chain Industry
- Energy Saving for Air-Conditioning and Process Cooling at Textile Factory
- Energy Savings at Convenience Stores
- Mega-Solar Power Plants Using Thin-Film Solar Cells
- Optimum Control of Plant Equipment
- Wind-Power Generation
- Energy-saving stores based on CO2 refrigerant
- Forest conservation measures (REDD+)
- Anaerobic treatment for wastewater from rubber plants
- Solar power system at off-grid cell towers
- Improvement of REDD+ implementation using IC technology

Thailand:

- Energy saving in industrial park
- Energy Savings through Building Energy Management System
- Bagasse-based Cogeneration at Sugar Mill

Cambodia:

- Small-scale Biomass Power Generation by Using Stirling Engines

Workshop on 3E Nexus and Development of Joint Crediting Mechanism (JCM) Projects for Implementing Intended Nationally Determined Contributions



Date: December 15, 2015, 9:00~16:45

Venue: VNU Hanoi University of Science

Time	Description
9:00 – 9:10	Welcome speech Prof. Dr. Phan Tuan Nghia,
9:10 – 9:20	Introduction of WS Dr. Nguyen Tai
9:20 – 9:40	Keynote speech Prof. Dr. Mai Trong Nhuan,
9:40 – 10:20	Keynote speech Dr. Luong Quang Huy
10:20 – 10:40	Break
10:40 – 11:10	JCM introduction, Assoc. Prof. T. Matsuda
11:10 – 12:00	Q and A
12:00 – 13:30	Lunch
13:30 – 14:00	Video lecture on JCM proposal development, Prof. K. Fukushi
14:00 – 14:45	JCM secretariat report, Mr. Le Ngoc Tuan
14:45 – 15:30	Q and A
15:30 – 16:30	Discussion
16:30 – 16:45	Closing Prof. Dr. Mai Trong Nhuan

Workshop on 3E Nexus and Development of Joint Crediting Mechanism (JCM) Projects toward a Sustainable Low-Carbon Society in Indonesia



PUSAT STUDI LINGKUNGAN HIDUP
INSTITUT TEKNOLOGI BANDUNG



Date: December 17, 2016 9:00~16:45

Venue: Center for Environmental Studies, ITB

Time	Description
9:00-9:10	Welcome note, Prof. Tjandra Setiadi
9:10-9:30	Self introduction
9:30-9:50	Introduction of 3E nexus Dr. Geetha Mohan
9:50-10:30	JCM secretary report, Mr. Dicky Edwin Hindarto
10:30-10:50	Coffee break
	Lectures on JCM and related research
10:50-11:05	• Prof. Udin Hasanudin
11:05-11:20	• Mrs. Luciawati Sunarjo
11:20-11:35	• Dr. Retno Gumilang Dewi
11:35-11:50	• Dr. Eng. Arie Dipareza Syafei
11:50-12:20	• Q & A
12:20-13:30	Lunch
13:30-14:15	JCM proposal development, Prof. K. Fukushi
14:15-15:15	Discussion,
15:15-15:30	Coffee break
15:30-16:30	Discussion
16:30-16:45	Closing Prof. Fukushi, Mr. Dicky Hindarto, Prof. Setiadi

Workshop on 3E Nexus and Development of Joint Crediting Mechanism (JCM) Projects toward a Sustainable Low-Carbon Society in Bangladesh



Date: December 20, 2016 9:00~14:45

Venue: Asian Institute of Technology Conference Center

Time	Description
9:00-9:10	Welcome note, Prof. C. Visvanathan
9:10-9:25	Introduction of participants
9:25-9:45	3E nexus introduction, Dr. Geetha Mohan
9:45-10:15	JCM proposal development and JCM program, Dr. Fujino
10:15-11:00	Q and A, discussion
11:00-11:30	Coffee break
11:30-12:10	JCM in Bangladesh Prof. Dr. Md Mafizur Rahman
12:10-13:10	Lunch
13:10-13:30	IDLC Finance Limited Engr. Md Mehbuboor Rahman
13:30-13:50	Mr. Shafiqul Alam
13:50-14:50	Overall discusiion
14:50-15:00	Closing Prof. Dr. Md Mafizur Rahman

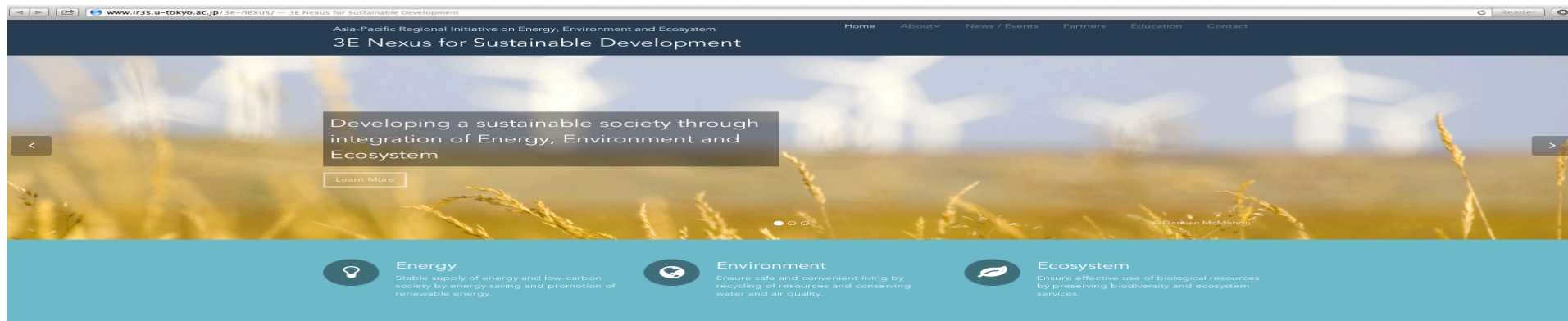
For more information

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About

The 3E nexus project has been initiated by the Integrated Research System for Sustainability Science (IR3S), University of Tokyo with the vision of enhancing multinational research collaborations on low carbon development in Asia-Pacific countries. The project targets mainly on capacity development activities to promote Joint Crediting Mechanism (JCM) through the establishment of networks in partner countries such as organizing meetings, workshops and trainings on technologies and evaluation methods of sustainable low-carbon projects both at government and private sectors.