

Project Updates: Energy, Environment and Ecosystems (3E) nexus for Sustainable Development in Asia and the Pacific region (2014-17)

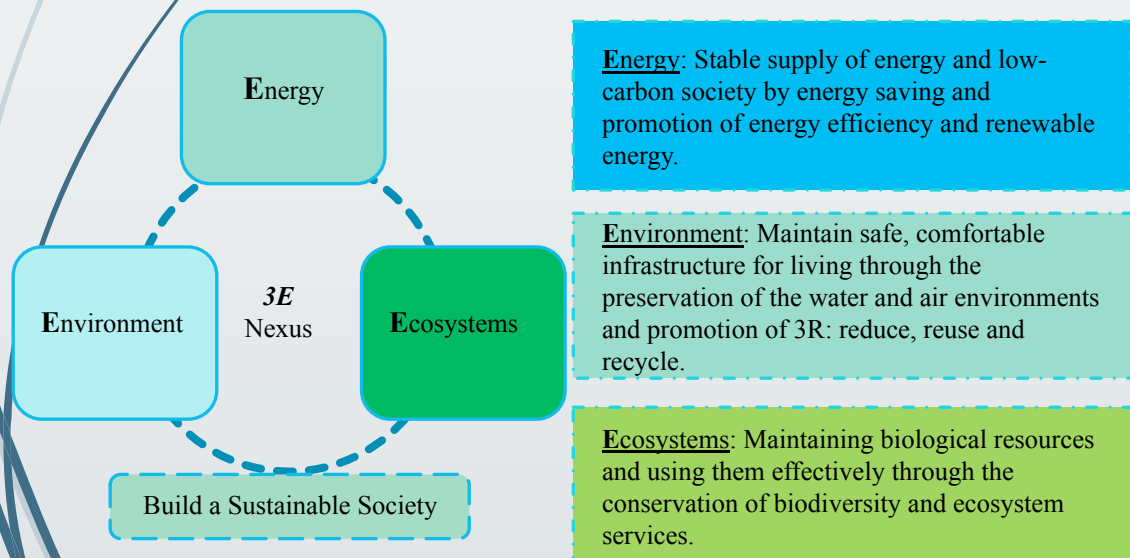
3E Nexus Secretariat,
IR3S,
The University of Tokyo

3E Nexus Initiative for Sustainable Development

Developing a sustainable society through **integration** of **Energy**, **Environment** and **Ecosystems** in Asia-Pacific region.

To establish a **research network** and to create a platform for better understanding of **country and regional** level environment, energy and ecosystem problems.

Framework of 3 E



3E Nexus
for Sustainable Development

Home About News / Events Partners Education Contact

Developing a sustainable society through integration of Energy, Environment and Ecosystems

Learn More

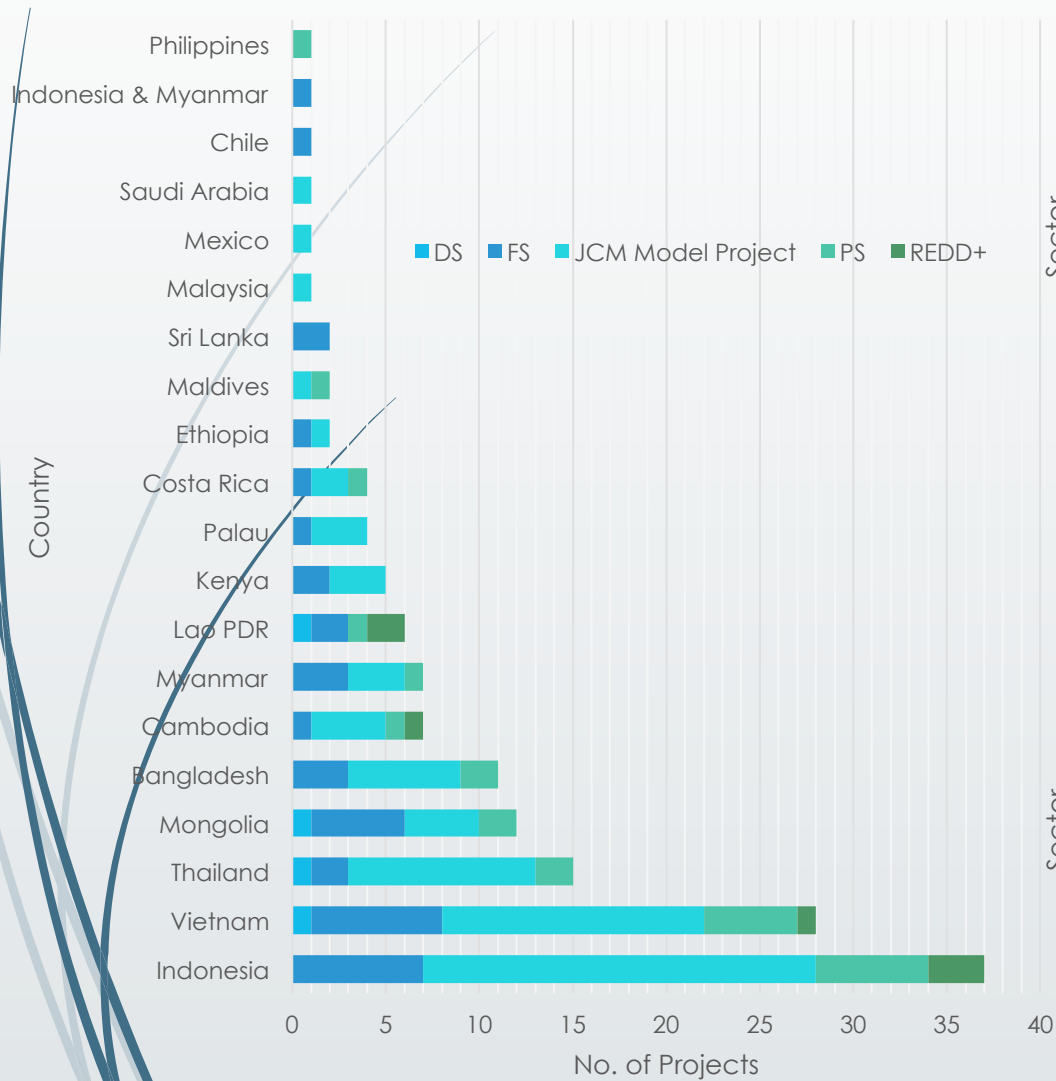
© Damien McMahon

Energy
Stable supply of energy and low-carbon society by energy saving and promotion of renewable energy.

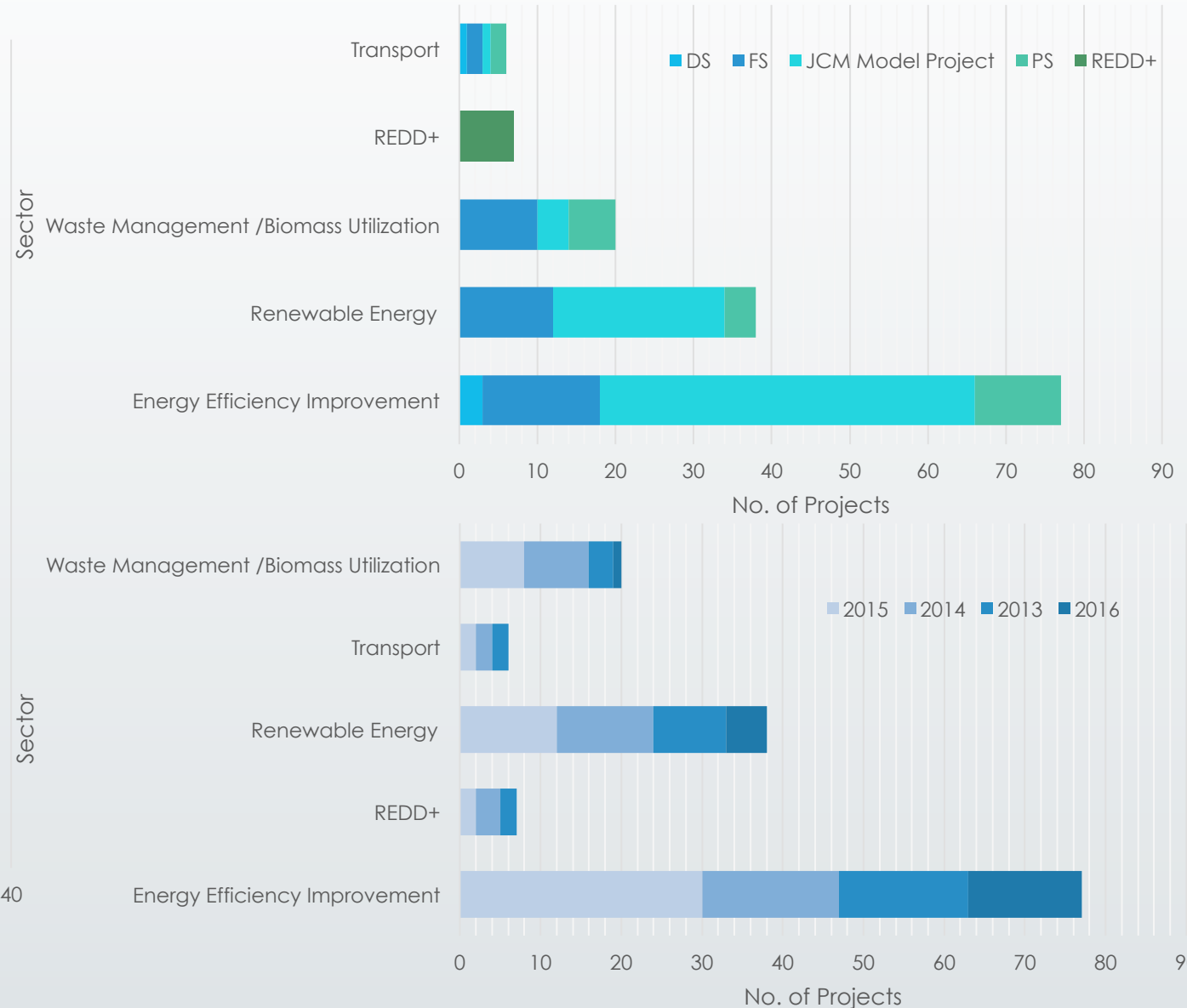
Environment
Ensure safe and convenient living by recycling of resources and conserving water and air quality.

Ecosystems
Ensure effective use of biological resources by preserving biodiversity and ecosystem services.

Country and Sector-wise JCM (DS, FS, Model, PS and REDD+) Projects in 2013-16

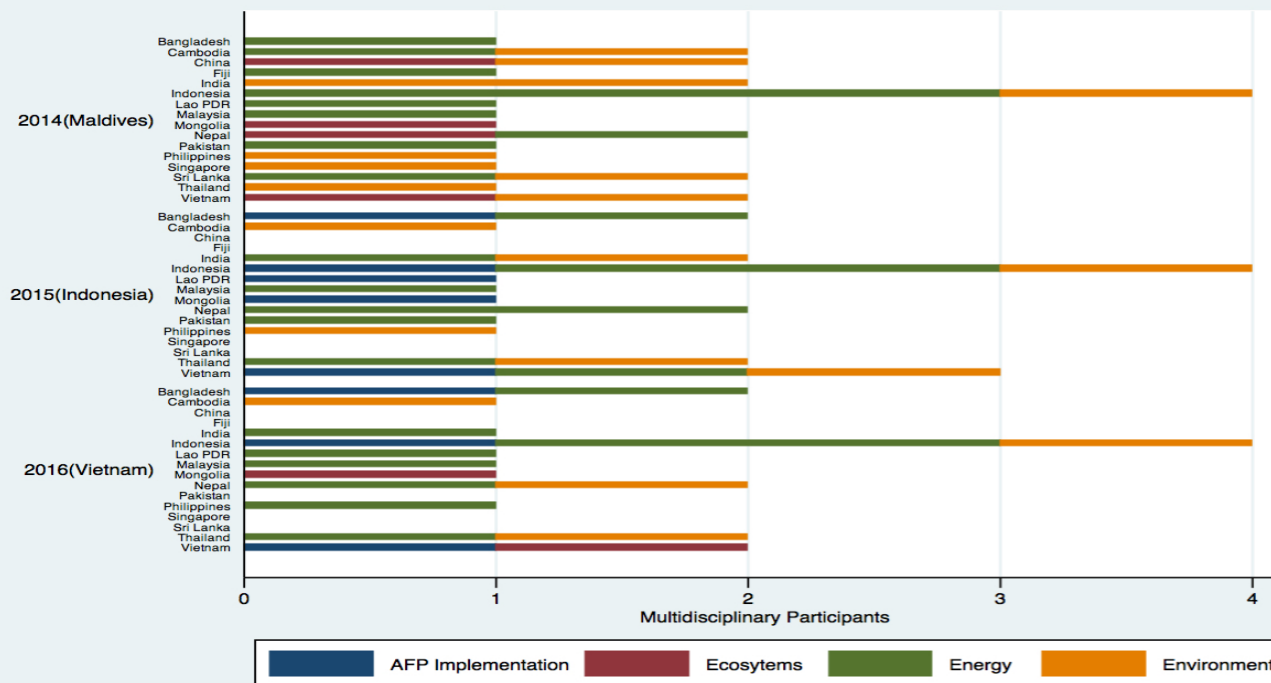


Source: <http://gec.jp/jcm/projects/index.html>



3E Nexus: Importance of Multi-disciplinary towards Sustainable Development

- ❑ To transform society, it is vital to engage with stakeholders and community members to find ways in which science can solve real problems in society.
- ❑ Integration of multi-disciplinary approach can be bringing together natural, social and human sciences, are key to build the necessary knowledge for sustainable development at all levels.
- ❑ Mutual dialogue between scientists and policymakers is needed to provide a scientific basis for policymaking.



Targeted Regions and sectors in Asia and the Pacific region

Region	Targeted Sector
East Asia	Ecosystems; Environment and Economy
South Asia	Energy Conservation; Ecosystems; Renewable Energy; GHG Emission and Mitigation; Environment and Economy
Southeast Asia	Energy Conservation; Ecosystems; Renewable Energy; GHG Emission and Mitigation; Environment and Economy; Environmental Technology
Pacific Region	Energy Conservation

Source: 3E Nexus Secretariat

Success of Academic Focal Person (AFP) Initiative in Five Countries

To develop the capacity building activities such as trainings and workshop on **Joint Credit Mechanism (JCM) of advanced technologies** for low carbon societies.

It is an excellent platform to establish and extend the networking within the country and to **promote educational materials, trainings on advanced methodologies, and exchange knowledge** within the AFP Network.

AFP FRAMEWORK

IR3S Secretariat
(Head Quarters)

One Stop Service
(Academic Focal
Person)

Academicians

Government and
Non-government
officials

Regional and Local
communities,
Stakeholders,
companies etc.,



AFP Meeting Indonesia.



AFP Meeting Vietnam.



AFP Meeting Laos PDR.



AFP Meeting Mongolia.



AFP Meeting Bangladesh.

Outcomes of 3E Nexus Project

Successfully Organized Annual Meeting to strengthen the international researcher network, increase the **capacity and share the information** on the participant countries' ongoing research related to **low-carbon development and its co-benefits**.



1st Annual Meeting Maldives.



2nd Annual Meeting Indonesia.



3rd Annual Meeting Viet Nam.

Activities Published in Top Newspapers

Participants attended including **H.E. Nguyen Linh Ngoc, Deputy Minister from Ministry of Natural Resources and Environment, Vietnam**

Published Research Article on 3E Nexus

Proceedings of International Symposium Hanoi Geoengineering 2016

Research Article

Energy, Environment and Ecosystems (3E) Nexus Initiative: Towards Building Sustainable Society in Asia-Pacific Region

Kazuhiko Takeuchi, Geetha Mohan¹, Kensuke Fukushi, Alexandros Gasparatos and Binaya Kumar Mishra
*Integrated Research System for Sustainability Science (IR3S),
The University of Tokyo Institutes for Advanced Study (UTIAS), Japan.*

ABSTRACT: This paper identifies the importance of integrating 3E (energy, environment and ecosystems) for developing a sustainable society and to establish a research networks to generate the motive of a regional low emissions, material-cycling and nature harmonious sphere in Asia-Pacific region. However, our target is not only for preferment of low carbon society but also towards educating regional environment and ecosystems and as well as contributing to the solutions of environmental issues that are foremost to the progress of human wellbeing. The results of this 3E nexus initiative indicate that our transdisciplinary international conferences and country level national focal persons (NFP) collaborative network programs provide an overview of knowledge and practice in the different fields of energy (e.g. renewable energy, energy efficiency and saving), environment (e.g. waste management, control of local air pollution) and ecosystem (e.g. biodiversity conservation, ecosystem management). The Vietnamese NFP collaborative network categorizes that the information knowledge sharing on co-benefits linking with 3E, education-research transfer, disaster risk management, and urban-rural climate smart model transfer to the stakeholders are crucial to encourage and further develop dialogues between researchers, scientists, academicians, engineers, policymakers and other stakeholders. Finally, the 3E nexus network platforms contribute to share their opinions and better understanding of the potential solutions towards sustainable development in the region.

Keywords: 3E nexus, research networks, sustainable development, Asia-Pacific region.



Home > Society

Updated January, 15 2016 09:56:00



Co-operation key for development



International workshop on 3E nexus for sustainable development

Thursday, 2016-01-14 05:37:02

Font Size: - | +



Deputy Minister of Natural Resources and Environment Nguyen Linh Ngoc speaks at the workshop (Photo: baotainguyenmatruong.vn)

3E Nexus way forward to new projects developed by Viet Nam and Indonesia

VIETNAM: The International Symposium on “**Energy & Sustainability**” during 21-22 October 2016 at Vietnam National University Hanoi.

The major topics of Symposium focuses on **Geoengineering solutions for development** of the 3E, consisting of **Energy, Environmental and Ecosystems**.



INDONESIA: Affordability of Public Participation in Supporting (3E) Nexus for Sustainable Development in the City of Surabaya, East Java, Indonesia.

To investigate the affordability of **public participation in maintaining the sustainable development** from the perspective of 3E in the city of Surabaya, East Java Province, Indonesia.

Problems were found to be underestimated, namely: **fresh water supply, greenhouse gases and climate change, also food supply**.

Significant Role of 3E Nexus Secretariat

To assist AFP's network for **identifying the Japanese counterpart** such as Japanese companies information through 3E Nexus secretariat. Remarkably, we were organized a **one to one meetings with Japanese companies** and **AFP countries companies**.

The secretariat will also assist Japanese companies **to contact our network** members in Asia. For instance, one of the Japanese companies **PLANTEC Inc.** is contacted us to get the updated information about Waste Incinerator (MSW & Industrial) in Thailand.

Published Quarterly Newsletters from 2014-2017

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#1 Mar. 2015

ISSUE # 2
Mar. 2015

CONTENTS

Introduction of One Stop Service	01
One Stop Service Meeting	02
Second General Meeting	02
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.jp/3e-nexus/index.html>

INTRODUCTION OF ONE STOP SERVICE

The role of one stop service is primarily to develop a domestic network, which includes academicians, researchers, policy makers, business partners and other stakeholders in each selected country to provide a platform to discuss on the advanced technologies of low carbon development (for e.g. Japanese Joint Crediting Mechanism Projects) for sustainable societies in Asia.

In addition, this platform has provide the capacity development support such as trainings and workshops on MRV methodologies and introduction of JCM projects.

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#3 Jan. 2016

ISSUE # 3
Jan. 2016

CONTENTS

Third International General Meeting	01
Second Year NFP Meetings	02
Role of 3E Nexus Secretariat	03
Contact 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.jp/3e-nexus/index.html>

3E NEXUS THIRD INTERNATIONAL WORKSHOP, VIETNAM

The third international workshop of the 3E Nexus project on "Energy, Environment and Ecosystems (3E) Nexus Initiative for Sustainable Development in Asian Countries" was held in Da Nang, Vietnam on 14-15th January 2016. The main aim of this international workshop was mainly focused on co-benefits: *linking energy, environment and ecosystems* for sustainable development in Asian countries, which are one of the agendas of the project.

Participants from the top Universities in Asia and Government officials from Vietnam were attended in this workshop.

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#4 Mar. 2016

ISSUE # 4
Mar. 2016

CONTENTS

National Focal Person Meetings	01
News Articles on 3E Nexus	03
Role of 3E Nexus Secretariat	04
Contact Information	04

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.jp/3e-nexus/index.html>

NATIONAL FOCAL PERSON (NFP) MEETING IN 2015

BANGLADESH: Study Workshop on 3E Nexus and Development of Joint Crediting Mechanism (JCM) Projects toward a Sustainable Low Carbon Society in Bangladesh organized by National Focal Person (NFP) on December 29th, 2015 held at Asian Society in Bangladesh, Thailand. Participants attended from University, Financial Institutions and Bangladesh companies (National Polymers, Genetech Carbon Solutions Limited).

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#5 May 2016

ISSUE # 5
May 2016

CONTENTS

Academic Focal Person Activities	01
Successful AFP Meetings	02
Members of 3E Nexus	02
Role of 3E Nexus Secretariat	02
Contact 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.jp/3e-nexus/index.html>

ACADEMIC FOCAL PERSON (AFP) MEETING IN MONGOLIA

IR3S 3E NEXUS PROJECT NEWSLETTER ISSUE#6 Jul. 2016

ISSUE # 6
Jul. 2016

CONTENTS

Academic Focal Person Activities	01
Upcoming Events of 3E Nexus	02
Updated Information of 3E Nexus	02
Contact 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.jp/3e-nexus/index.html>

ACADEMIC FOCAL PERSON (AFP) ACTIVITIES IN VIETNAM

Prof. Mai Trong Nhuon, Academic Focal Person (AFP) Vietnam was invited as keynote speaker in the plenary session in International conference on Climate change Impacts and Responses at Vietnam National University, Hanoi.

Prof. Nhuon keynote speech was on "Low carbon, resilient and sustainable development for enhancing climate change response in vulnerable country: challenges and opportunities - lessons learned from Vietnam", highlighted that the low carbon development and 3E nexus will

Tokyo Meeting Agenda

Energy Environment and Ecosystems (3E) nexus towards building resilient societies and implications to Sustainable Development Goals (SDGs) in Asia-Pacific region

Presentation under following three research themes

➤ Environment

- Waste Management

➤ Energy

- Resource Efficiency
- Renewable Energy and Energy Efficiency

➤ Ecosystems

- Biomass Utilization and REDD+



Study Tour

Time: 13:00 ~ from the IR3S

Place: Metropolitan of Tokyo, Waste to power generation facility

<http://www.tokyokankyo.jp/kengaku/chubo.html>

Thank you very much for your
participation and
Have a pleasant stay in Tokyo