
Environmental Cooperation Between Japan and Vietnam

January 2022

- I. History, Frame, Policy Dialogue
- II. Cooperation in each area
- III. Private Sector Cooperation

Key Messages...



Long history and comprehensive Environmental cooperation framework enable concrete actions

Supporting across different policy areas (climate change, waste management, water, air), from upstream policy development to implementation/financial support, through bilateral/multilateral approach.



Promoting multi stakeholder engagement (Local government/Private Sector)



**JAPAN PLATFORM
for REDESIGN :
SUSTAINABLE INFRASTRUCTURE**

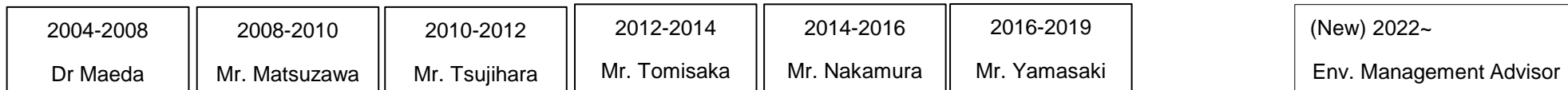
→ Clean City

I. History, Frame, Policy Dialogue

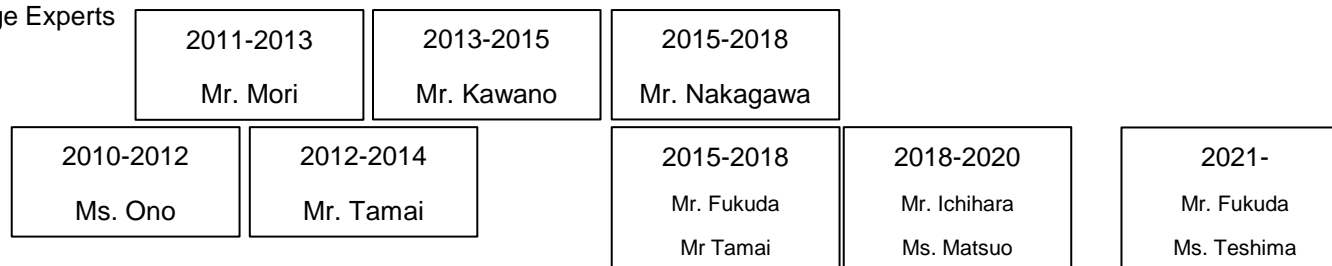
Timeline



Env. Policy Advisor



Climate change Experts



②Cooperation MOC extension (2016)

① Cooperation MOC (2013)

③Cooperation MOC 2nd extension (2020)

**Joint Cooperation Plan
toward CN2050 (2021)**

1st Policy Dialogue (PD1) (2014)

PD2 (2015)

PD6 (2020)

PD3 (2016)

PD7 (2021)

PD4 (2018)

PD5 (2019)

JCM MOC (2013)

1st JCM extension (2017)

**2nd JCM extension (2021)
~Until 2030**

Latest Extension: 2020 Aug, Marine Litter was included as a new area of cooperation

**MEMORANDUM OF COOPERATION
BETWEEN
THE MINISTRY OF THE ENVIRONMENT OF JAPAN
AND
THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT OF
THE SOCIALIST REPUBLIC OF VIET NAM
ON ENVIRONMENTAL COOPERATION**

The Ministry of the Environment of Japan and the Ministry of Natural Resources and Environment of the Socialist Republic of Viet Nam (hereinafter referred to individually as "side" and collectively as "both sides"),

DESIRING to strengthen the existing friendly relations between both sides;

CONSIDERING their common interest in promoting cooperation for sustainable development;

NOTING the importance of conservation and improvement of the environment for present and future generations;

RECOGNIZING that the effective protection of the environment requires global cooperation and coordination, efforts, and those activities to protect the environment should be carried out at the regional, national and local levels; and

PURSUANT to the laws and regulations in their respective countries,

HAVE reached the following recognitions:

**PARAGRAPH I
OBJECTIVE**

The purpose of this Memorandum of Cooperation (hereinafter referred to as "this MOC") is to strengthen, facilitate and develop mutual cooperation in the field of environment, reaffirming the importance of the actions towards the swift and successful implementation of the Paris Agreement, and the Sustainable Development Goals (SDGs).

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**PARAGRAPH II
AREAS OF COOPERATION**

Cooperative activity may be decided from mutually confirmed areas pertaining to environmental protection and climate change responses as listed below:

1. Mitigation and Adaptation on Climate Change;
2. Waste Management and Marine Litter;
3. Environmentally Sustainable Cities;
4. Water Pollution;
5. Air Pollution;
6. Environmental Protection for Chemical Activity;
7. Environmental Technology;
8. MRV;
9. Low Carbon Technology;
10. Biodiversity Conservation; and
11. Other areas of environmental protection and improvement as may be confirmed by both sides.

**PARAGRAPH III
FORMS OF COOPERATION**

Both sides will encourage and facilitate cooperation through appropriate forms, to the extent of resources prepared by both sides, including:

1. Holding policy dialogue on a regular basis;
2. Exchanging information and expertise including training;
3. Policy analysis;
4. Carrying out feasibility studies; and
5. Other forms to be mutually decided upon.

← New! Marine Litter!



Results of 7th Japan – Viet Nam Environment Policy Dialogue

■ Date and time: Wednesday, November 24, 2021 13:30-14:30

■ Place: Tokyo

■ Attendees:

<MOEJ> Dr. Yamaguchi, Minister for the Environment;

Mr. Ono, Director General, Global Environment Bureau, others.

<MONRE> Mr. Tran Hong Ha, Minister of Natural Resource and Environment; Mr. Hoang Van Thuc, Deputy Director General, Viet Nam Environment Agency, others.

■ Outline

Ministers...

• Signed the **"Joint Cooperation Plan (JCP) on Climate Change toward Carbon Neutrality by 2050"**, to achieve 2050CN in Vietnam.

• Exchanged the JCP during document exchange ceremony in the presence of Vietnamese Prime Minister Chinh and Japanese Prime Minister Kishida, later on the same day.

• Discussed the cooperation on climate change and marine plastic litter, based on the Joint Cooperation Plan.



Picture: Public Relations Office Cabinet Office

■ Summary of Joint Cooperation Plan

• Areas of enhanced cooperation:

(a) Development of LTS;

(b) City-level LTS and decarbonizing projects through City-to-City cooperation;

(c) Partnership to Strengthen Transparency for co-Innovation (PaSTI);

(d) Joint Crediting Mechanism (JCM);

(e) Transfer of leading decarbonizing technologies under the JCM, including hydrogen and CCUS;

(f) Carbon pricing;

(g) GHG Inventories;

(h) Mobilization and support of the private sector in mitigation projects;

(i) Waste-to-Energy (WtE); and

(j) management of fluorocarbons.

• Other themes: marine plastic litter; Holding the 2nd Viet Nam – Japan Environment Week in December 2021;

1st Joint Working Group for the JCP towards CN2050



- As part of 2nd Env Week, 1st Joint Working Group for the JCP towards CN2050 was convened, chaired by Senior Officials (DG level) from both ministries.
- To achieve 2050 CN, both sides discussed direction of cooperation on each field including long term strategy, city-to-city cooperation, transparency, JCM, Fluorocarbons, Waste to energy, Marine plastic litter.

- Date : Dec 17th 2021 16:00-19:00 (JST)
- Online
- Host : MOEJ, MONRE
- Co-Chairs : Mr. ONO Hiroshi Director General Global Environment Bureau MOEJ
Dr. Tang The Cuong Director General, Department of Climate Change MONRE
- Participants : MOEJ, MONRE, Embassy of Japan in Vietnam, JICA Vietnam, JICA Experts

Area of discussion on JCP

- 1 Long term strategy: City to city cooperation
- 2 PaSTI (transparency), JICA TA for NDC implementation
- 3 JCM, New technology including Hydrogen and CCUS, Carbon Pricing, Inventory, Reduction certificate
- 4 Fluorocarbons management
- 5 WTE, Marine Plastic litters

II. Cooperation in each area

Achievement of Environment Policy Advisors



- Long cooperation with MONRE (Since 2004) and building block of bilateral cooperation.
- Dispatch Environmental policy experts from MOEJ (since 2008)
- New experts on Environment Management from 2022

Key Achievement of JICA Experts

Env. Policy Advisor

- Circular/Guideline development
- Support on Revised Law on Environmental Protection (2020)

SPRCC Experts

- Comprehensive capacity building in MONRE
- Building coordination capacity of MONRE in Climate Change policy through the Project Coordination Unit

SPC NAMA, SPI NDC

- Support on Climate Change chapter of Revised Law on Environmental Protection (2020)
- Inputs on circular on Climate change

Scenario Development by AIM

- Vietnam's new ambitious target carbon neutrality in 2050
- Provide technical support for formulation of Vietnam's long-term climate strategy through developing and analyzing emission scenario by Asia-Pacific Integrated Model
- Cooperation agreed in 2020 at Policy Dialogue 6th



Enhancing Transparency

- Vietnam is to develop GHG reporting system
- PaSTI: Promoting an enabling environment for private sector including mobilizing ESG investment

Workshops and Training

Survey in the IPPU sector

Report on potential of ESG investment

Partnership for Market Readiness (PMR) by World Bank

Overview

- **Partnership for Market Readiness (PMR)** is a technical assistance program established by the World Bank for countries to prepare to implement carbon pricing policy instruments, such as an emissions trading scheme and carbon tax, in support of climate action.
- 13 Contributing partners, including Japan, funded the partnership, 6 countries and subnational jurisdictions engaged with the PMR as Technical Partners, and 23 Implementing Country Participants received funding and technical support.
- Program period: 2011 - 2021



Objectives

- Build countries' capacity to develop and implement carbon pricing instruments
- Create a knowledge base on carbon pricing instruments and facilitate information exchange
- Assist countries to identify and implement best practice approaches

Implementing Country Participants (23 countries including 4 technical partners, in alphabetical order)

Argentina, Brazil, Chile, China, Colombia, Costa Rica, Cote d'Ivoire, India, Indonesia, Jordan, Kazakhstan, Mexico, Morocco, Panama, Peru, Philippines, South Africa, Sri Lanka, Thailand, Tunisia, Turkey, Ukraine, **Vietnam**

Achievements

- **16 countries** have completed road maps for carbon pricing readiness
- **19 Technical Notes, 55 Technical Workshops** and other knowledge exchanges

Note

- The World Bank started a successor program in 2021, called **the Partnership for Market Implementation (PMI)**. Participating countries are not yet announced (as of Jan 2022).

Cooperation under IFL

- Initiative on Fluorocarbons Life Cycle Management
- Inputs on TCVN

Formulation of regulations

Capacity Development

JCM



INITIATIVE ON
FLUOROCARBONS
LIFE CYCLE
MANAGEMENT

JCM Projects on F-gas destruction

- MOEJ provided financial support to develop a JCM Project for HFCs destruction.



Joint Crediting Mechanism (JCM)

- Development of decarbonization projects and promotion of transferring leading decarbonizing technologies.
- Since 2013. Extension of MOC in 2021, until 2030.
- 40 projects in total in Vietnam, including 8 model projects and 1 F-gas project newly selected in FY2021



Project Title	Sector
Waste to Energy Project in Bac Ninh Province	Waste handling and disposal
Introduction of 9MW Rooftop Solar Power System to Factories	Renewable Energy
Introduction of High Efficiency LED Lighting with Dimming and Tunable Function to Office Building in Ho Chi Minh City	Energy Efficiency Improvement
Introduction of 12MW Rooftop Solar Power System to Commercial	Renewable Energy
Introduction of 9.8MW Rooftop Solar Power System in Industrial Park	Renewable Energy
Introduction of 5.8MW Rooftop Solar Power System to Beverage Factory	Renewable Energy
Introduction of 2.5MW Rooftop Solar Power System to Food Factory and Garment Factory	Renewable Energy
Introduction of High Efficiency Chiller and High Efficiency LED Lighting with Dimming Function to Shopping Center	Energy Efficiency Improvement
Development of Fluorocarbons collection scheme and installation of mixed combustion decomposition facility in Vietnam	F-gas Recovery and Destruction



Solar Power /Kanematsu KGK Corp.



Amorphous Transformers /Yuko Keiso Co., Ltd.

■ 5 city-to-city collaboration projects are ongoing between Vietnam and Japan.

Hanoi City – Fukuoka Pref.

Promotion of Zero-Carbon Technologies

- Energy saving
- Renewable energy
- Institutional support

Hai Phong City – Kitakyushu City

Promotion of Eco-Industrial Parks

- Energy efficiency
- Renewable Energy
- Waste Handling and Disposal
- Policy support
- Development of Climate Change Long Term Strategy

Da Nang City - Yokohama City

Development of "Local Climate Change Action Plan (LCCAP)" and promotion of low carbon technologies

- Renewable energy
- Energy saving

Ho Chi Minh City - Osaka City

Promotion of Zero-Emission Technologies in Industrial and Public Sectors

- Energy saving
- Renewable energy
- Institutional support

Soc Trang Province – Hiroshima Pref.

Formation of an Autonomous Decarbonized Society

- Energy saving
- Renewable energy
- Waste disposal
- System development



【Joint Committee on Waste Management】

The Joint Committee on Waste Management is being held annually since 2019. Discussed institutional design for waste management, intensive municipalities support, etc., to improve waste management practices. The 4th Joint Committee meeting was held on December 14th

Inputs in policy and standard design

- National Technical Regulation on Domestic waste incinerator
- Other decrees and circulars (Separate collection, waste treatment standards, landfill site closure standard)

Support for local governments

- Identified priority provinces: Bac Ninh and Binh Duong
- Draft collection and transportation system plans in 2021

Training program in Japan since 2014

Policy: WEPA (since 2004)

- improvement of water environment governance
- sharing knowledge and experience as well as developing capacity



Group workshops

Bilateral Dialogues

Action Program

Web-database

WEPA Outlook

Annual Meetings

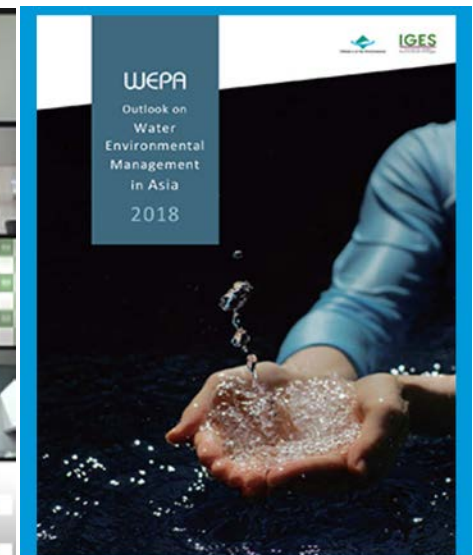
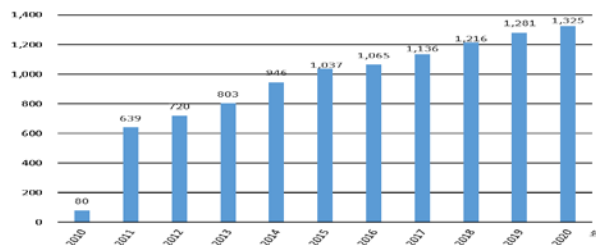
Technology: Model Project

- For Improvement of Water Environment in Asia
- Disseminating appropriate water treatment and related technologies by Japanese private sectors



Technology: Johkasou

- In total 1,325 sets have been installed including about 1,100 in public hospital, as of the end of 2020.
- No regional application yet.



EANET

- Expanding scope to address wider atmospheric environment-related issues



Co-benefit Technology Project

- Tool to address air pollution and climate change mitigation simultaneously.
- Disseminate co-benefit technologies by using JCM

Model Project

Policy Study

Capacity Building

Seminar

JCM development



Acid Deposition Monitoring
Network in East Asia

Cooperation in Monitoring

- Signed a basic agreement on cooperation in the field of marine litter In 2020

Joint Pilot Monitoring Project

Capacity Building Training

Development of Monitoring Manual

Sharing monitoring data

Grant Assistance

- To provide necessary equipment for survey/monitoring
- Signed E/N in 2021 April



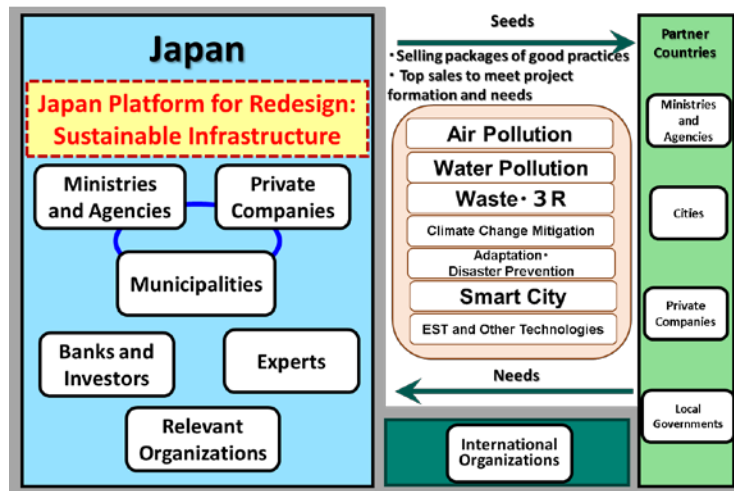
III. Collaboration with Private Sector

Japan Platform for Redesign: Sustainable Infrastructure(JPRSI)

- JPRSI aims to provide a total solution to overall environmental infrastructures using a PPP (Public-Private-Partnership) platform.

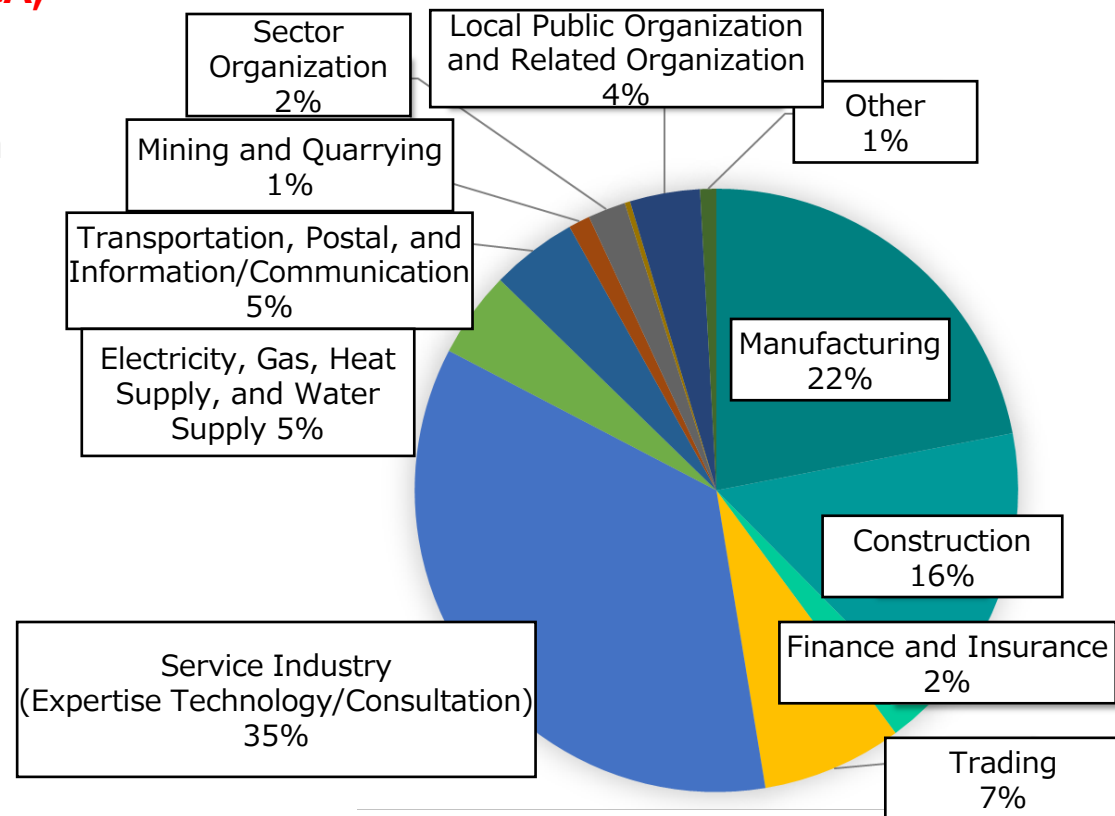
Overview

- Established : September 8, 2020
- Relevant Organizations: **JICA, JOIN, JASCA, J-CODE, JAIDA, JBIC, JETRO, and NEXI**
- Purpose: Build a network involving joined companies and organizations, and create a self-driven project, which is operated by private companies to meet with cross-sectional needs of a partner country.



Number of Entities Joined

- **415** entities have joined the platform (as of August 2021).



Japan Environment Week

- MOEJ has co-hosted JEW since 2018 with its partners in ASEAN region.
- Latest events organized virtually reaching out to a larger audience base despite constraints under global pandemic.

2018: Myanmar-Japan Env. Week

- C/P: Ministry of Natural Resources and Environment (MONREC)
- Japan-Myanmar Env. Policy Dialogue organized
- Seminar attracted 190 participants



2019: Vietnam-Japan Env. Week

- C/P: Ministry of Natural Resources and Environment (MONRE)
- Policy Dialogue organized with the presence of Vice-Ministers
- Seminar attracted approx. 350 participants.
- Environment technologies introduced and business matchings.



2020: Thailand-Japan Env. Week

- C/P: Ministry of Natural Resources and Environment (MONRE)
- Seminar attracted approx. 300 participants.
- 27 companies participated exhibition.
- Five Joint Seminars organized on (1)Marine Plastics, (2)Waste Management, (3)Climate Change Adaptation, (4)Circular Economy and Innovation, (5)Air Pollution.



2021: Indonesia-Japan Env. Week

- **Policy Dialogue**
 - Indonesia-Japan Env. Policy Dialogue was held online between Min. Siti Nurbaya (KLHK) and Min. Koizumi Shinjiro (MoEJ).
 - Both discussed measures on climate change mitigation, marine plastics and mercury.
 - Mercury Youth event organized where students from both countries reported on their activities on mercury.
- **Environment Online Seminar**
 - Discussed on business development and Indonesia-Japan cooperation on areas including WtE, decarbonization technologies and future needs.
 - Topic-specific seminar focused on topics including management of marine plastic waste, waste, mercury, and water quality, attracting **more than 800 audience in 2 days.**
- **Exhibition and Business-match**
 - Online exhibition and business-matching attracted **approx. 2,000 participants**, promoting public-private partnership between the two countries



2nd Japan Vietnam Environment Week



Opening Session Dec 16th 2021

◆Opening Ceremony

- Opening remarks by MOEJ Vice Minister Ooka, MONRE Vice Minister Nhan

◆Launch Ceremony of WTE project in Bac Ninh

- Hosted by JFE Engineeringing (Japan)、Thuan Thanh (Vietnam)
- Participants : MOEJ Vice Minister Ooka, MONRE Vice Minister Nhan, Ambassador Yamada, Bac Ninh Vice Chairman Khai, IFC country manager
- Supported by JCM. The two companies met at 1st JV Env. week

◆Towards 2050 CN (Key Note Speech and Panel Discussion)



Online Seminars Dec 15th -17th

Plenary Seminar: Marine Plastics and Private Sector Cooperation

Seminar1: Waste management for Circular Economy

Seminar2: Water Env. Improvement

Seminar3: GHG reporting system

Seminar4: Climate Change adaptation

Seminar5: JCM implementation

Seminar6: Refrigerants management standards

Online Booth · Business Matching

- More than 1,500 participants in online seminar
- 34 companies joined the online booth.

Online Seminar Participants

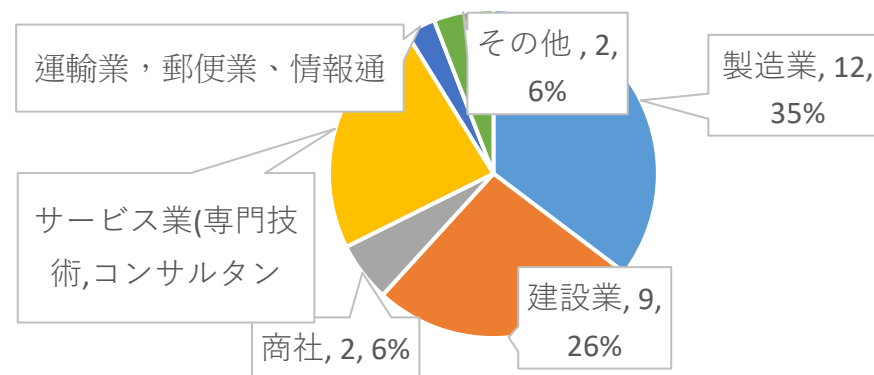
DAY 1 (15th Dec)			DAY 2 (16th Dec)				DAY 3 (17th DEC)			
Seminar 1	Seminar 2	Seminar 3	Ceremony	Opening	Company Presentation	Plenary	Seminar 4	Seminar 5	Company Presentation	Seminar 6
209	114	119	108	152	115	170	100	286	87	106
Total 1,566										

Virtual Booth

■ Number of companies by areas

CC Mitigation	6	Smart City	5
CC Adaptation	6	Mercury	2
Waste	17	Marine Plastics	6
Air Pollution	9	Hydrogen	2
Water	8	ESG Investment	2
Johkaso	4	COVID19 related	2
Recycle	9	Others	3
Clean Energy	9		

■ 業種別 出展社数(業種, 社数, %)



The 1st Japan - Viet Nam Environmental Week was held in January 2019 in Viet Nam



Environmental Infrastructure Technology Seminar



Business Matching in Exhibition Booth



WTE Project launch ceremony

Selected for MOEJ's "Financing Programme for Joint Crediting Mechanism (JCM) Model Projects in FY2021"

Waste treatment capacity: 500 tons/day

Power generation amount: 11.6MW

Schedule: Construction started in January 2022. Commercial operation to start at the end of 2023



T&J Green Energy



Key Messages...



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Supporting across different policy areas (climate change, waste management, water, air), from upstream policy development to implementation/financial support, through bilateral/multilateral approach.



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