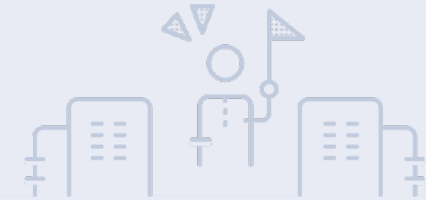


EJEC REPORT

# Introduction of EJEC and our consultation services in waste management



 **Eight-Japan Engineering Consultants Inc.**

Jan. 15, 2025

Akane HOSAKA

Waste Management Division, International Department

## Eight-Japan Engineering Consultants Inc. "EJEC"

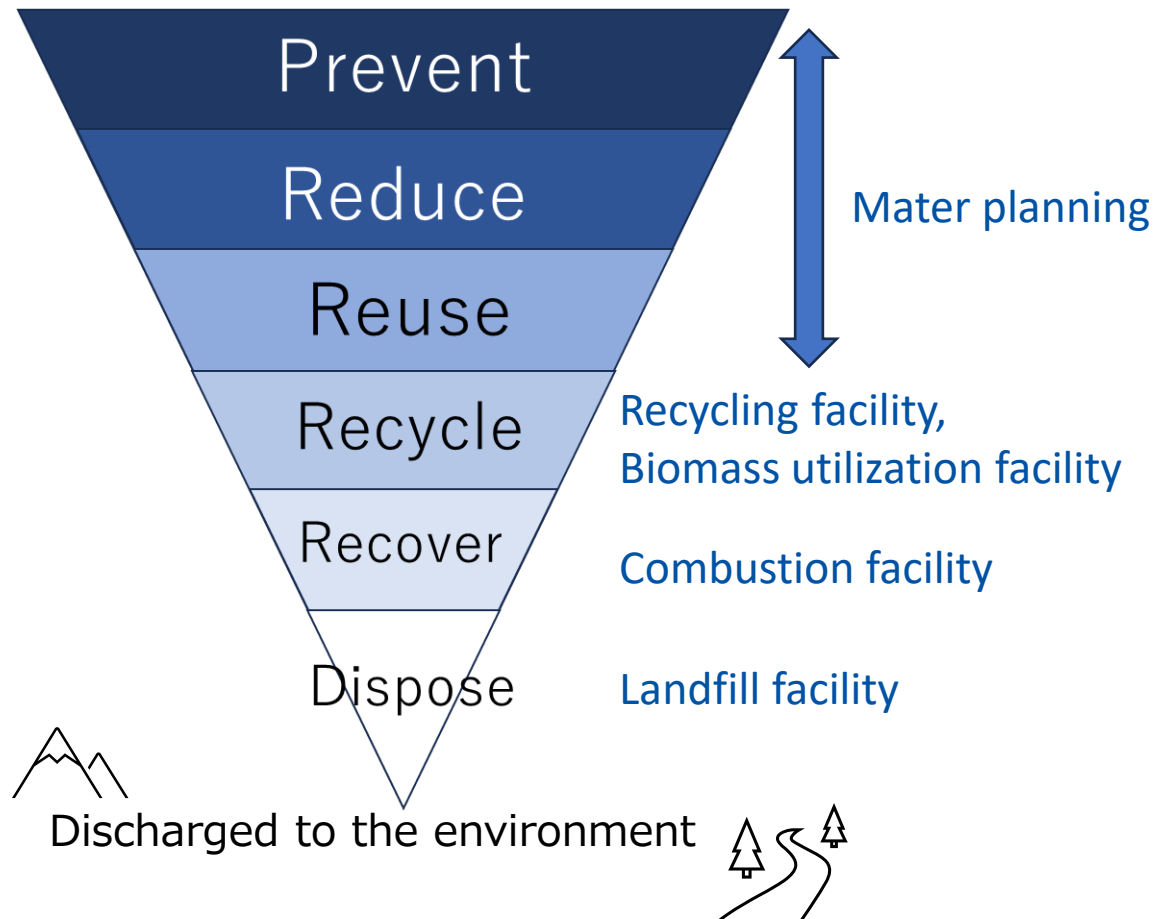
EJEC

### Profile

Full Name	Eight-Japan Engineering Consultants Inc. (EJEC)
Foundation	Founded in 1955
President	Mr. Seikan Kin
Number of Employees	1,058 (874 technical, 184 admin staff) as of June 2024
Paid-in Capital	2 Billion JPY (Approx. 13M USD)
Offices and Affiliate Companies	In Japan: 2 Headquarters (Okayama, Tokyo), 52 Regional Offices Overseas: EJEC (Thailand) Co., Ltd., Dynamic Engineering Consultants Co., Ltd.
Scope of Services	Planning, Survey, Study, Design, Analysis, Evaluation, Cost estimation, Bidding support, Inspection, Supervision of construction, R&D etc.



We work to minimize the negative impacts on people's health and Earth caused by improper waste management.



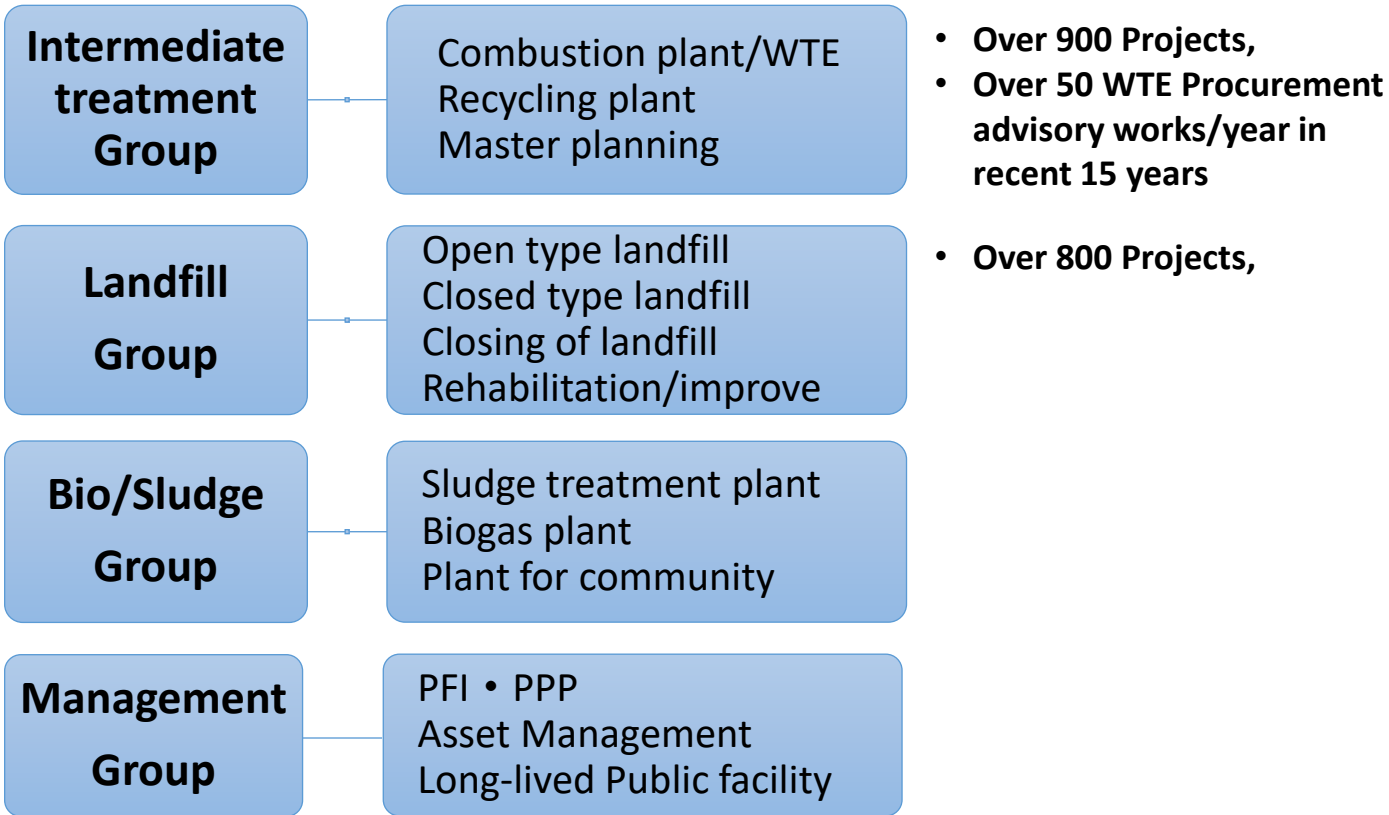
- Provision Master Plan (M/P),
- Conceptual Study,
- Feasibility Study (F/S),
- Site Selection,
- Transaction (Procurement) Advisory (T/A),
- Supervision of Design, Construction (S/V),
- Operation Monitoring

for

Recycling Facilities (MRFs), Waste-to-Energy (WTE) Combustion Facilities, WTE Methanation Facilities, Compost Facilities, Landfills

## Solid Waste Management Department

Achieved over **3,000 waste management projects** consulting services in the past 50 years



Master planning, Facility concept design, Site selection, Facility planning, PPP/PFI applicability study, Procurement advisory (Tender documentation, Bidding process support, Evaluation, Contract support), Supervision for design/construction, Operation monitoring

# EJEC's Track Record on International Projects (Waste management/ Waste-to-Energy) in recent 20 years (2005 – 2024)

## [Countries/Area]

		Asia	Africa	Others
Philippines	<b>18</b>	<b>72</b>		
Indonesia	16			
Vietnam	9			
Thailand	7			
China	7			
India	4			
Maldives	3			
Cambodia	2			
Sri Lanka	2			
Palau	3			
Bangladesh	1			
Kenya	1		<b>3</b>	
Tanzania	1			
Madagascar	1			
Ukraine	1			<b>3</b>
Montenegro	1			
Dominica Rep.	1			
<b>Total</b>	<b>55</b>			

## [Facility type]

Combustion (WTE)	27
Landfill	18
Biomass	13
Biogas	2
Others	14
<b>Total</b>	<b>74</b>

## [Recent work]

- ✓ Indonesia: TA support/FS on West java WTE project, Waste characteristic survey on WTE
- ✓ Philippines: JICA waste management Capacity building on WTE, Study on strategies to improve waste management, Waste characteristic survey on WTE
- ✓ Thailand: Waste characteristic survey on WTE, Landfill design
- ✓ India: FS support on WTE
- ✓ Maldives: Landfill basic design, FS support on WTE
- ✓ Palau: Landfill detail design/supervision of construction etc.

# EJEC's recent projects in the Philippines



WTE is receiving more and more attention in recent years!

Year	Country	Name	Client	Scope	Field
2024	Philippines	Waste Analysis and Characteristic Survey for WTE facility	Private company	WACS	Waste to Energy
2023-2024	Philippines	Study on Strategies to Improve Waste Management in the Philippines	Ministry of Environment, Japan	Study	Waste to Energy
2023-2024	Southeast Asia	Study on Analysis of Japanese Technological Advantages for Overseas Expansion of Waste-to-Energy Business	Ministry of Environment, Japan	Study	Waste to Energy
2023	Southeast Asia	Sustainable E-Waste Circulation Project	Japan Waste Research Foundation (JWRF)	Study	E-Waste
2019-2022	Philippines	The Project for Capacity Development on Improving Solid Waste Management through Advanced/Innovative Technologies	Japan International Cooperation Agency (JICA)	Technical cooperation	Waste to Energy
2016-2017	Philippines	Preparatory Survey of JICA TC for Capacity Development on Monitoring for SWM	Japan International Cooperation Agency (JICA)	Preparatory Survey	Waste to Energy
2014-2015	Philippines	FS on Waste to Energy Project with Methanation Technology in Philippines	New Energy and Industrial Technology Development Organization (NEDO), Japan	FS	Waste to Energy
2012	Philippines	Biomass Power Generation Plant and Energy Crops Plantation Project in Butuan City	Private companies (Consortium)	FS	Biomass (Wood chips)
2011	Philippines	FS for Centralized Municipal Solid Waste to Energy Project in Philippines	Ministry of Environment, Japan	FS	Biogas (Solid waste)
2010	Philippines	Pineapple waste to energy CDM project in Mindanao, Philippines	Eight-Japan Engineering Consultants Inc.	FS/PDD	Biogas (Pineapple)
2009	Philippines	Combined heat and power generation project in Rosario, La Union, Philippines	SUREPEP INC (Project Company)	Investment/ Supervisory	Biomass (Rice husk)
2009	Philippines	CDM Feasibility Study for Power Generation using Waste Banana in the Philippines	Global Environment Centre Foundation (GEC), Japan	FS/PDD	Biogas (Banana)
2008	Philippines	PDD preparation for Jatropha Bio-Diesel Fuel Production and Utilization CDM Project	Japan Consulting Institute (JCI), Japan	PDD	BDF
2008	Philippines	CDM Feasibility Study for Rice Husk-based Power Generation in the Philippine	Global Environment Centre Foundation (GEC), Japan	FS/PDD	Biomass (Rice husk)
2007	Philippines	Feasibility Study for Jatropha Bio-Diesel Fuel Production and Utilization CDM Project	Japan Consulting Institute (JCI), Japan	FS	BDF
2006	Philippines	FS for Rodriguez Landfill Methane Recovery And Electricity Generation CDM Project	Private companies (Consortium)	FS, PDD	Landfill gas

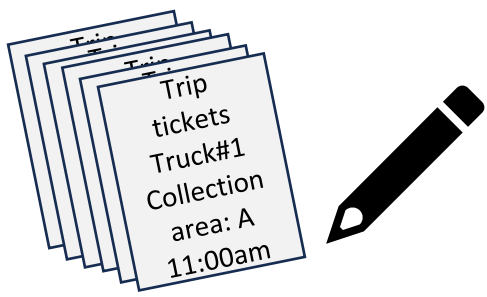
# Unique Project in recent year

- Waste Analysis and Characteristics Survey (WACS) projects for Waste to Energy (WTE) facility development
- Value on preparation stage (time and motion survey, trip tickets analysis, interviews, etc) to understand the characteristics of the samples



Preparation;  
time and motion survey,  
trip tickets analysis,  
interviews

“Stalking” garbage collection to understand the waste flow as a part of WACS preparation



WACS sampling & lab analysis in Wet and Dry season



- Bulk density
- Physical composition
- Proximate analysis
- Ultimate analysis
- Calorific value

 **Eight-Japan Engineering Consultants Inc.**

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**EJEC's website**

<http://www.ejec.ej-hds.co.jp/en/>



**EJEC's online booth in JPRSI website**

<https://jprsi.go.jp/en/member/188>