



## Energy from Waste Infrastructure Japan Study Tour



*Chuo Energy from Waste Plant in Harumi, Chuo-ku, Tokyo*

### ***About the study tour***

Jackson Environment and Planning Pty Ltd is a specialist infrastructure and planning firm and is organising a study tour in Tokyo, Japan, Monday 12 to Friday 16 February 2018 focusing on advanced energy from waste infrastructure.

As part of the tour we will inspect six advanced energy from waste plants in Tokyo and meet with the Tokyo Bureau of Environment responsible for the environmental regulation of these plants. This is a unique opportunity to be exposed to international best practice on the latest energy from waste infrastructure suitable for treatment of residual wastes.

## Why inspect facilities in Tokyo?

Over the past 15 years, Japan has invested heavily to develop and build its energy from waste infrastructure capability to conserve its landfill space and to provide sustainable energy alternatives to nuclear power.

The country has 1,162 energy from waste plants, including a number of incineration plants with no energy recovery, through to modern gasification plants with advanced pollution control, energy recovery and plasma arc treatment of ash.

With a critical shortage of landfill and a need to diversify energy sources from nuclear to sustainable energy sources, treatment of residual waste after recycling has driven significant innovation that can benefit other jurisdictions.

## Who should attend?

The study tour has been designed for private sector investors in energy from waste infrastructure, local government representatives, and local and state government officers responsible for procurement, planning assessment and regulation of these facilities.

## About the Energy from Waste Plants to be inspected

Facility to be inspected	Facility name & location	Annual tonnage (tpa)	Year built	Technology type, input waste and region serviced
	Suginami Energy from Waste Plant  Suginami, Tokyo	220,000	2017 (rebuilt)	Moving grate furnace incinerator (Hitachi Zosen)
	Ota Energy from Waste plant  Keihinjima, Ota-ku, Tokyo	220,000	2014	Stoker type incinerator with plasma melting of ash (Takuma SN)
	Sagami City Minami Refuse Energy from Waste Plant  Sagami, Tokyo	190,000	2010	Fluidized bed gasification with plasma melting of ash (Kobelco)
	Setagaya Energy from Waste plant  Okura, Setagaya-ku, Tokyo	110,000	2008	Fluidised bed incinerator with plasma melting of ash (Kawasaki)
	Nerima Energy from Waste plant  Yahara, Nerima-ku, Tokyo	182,500	2015	Stoker type incinerator with plasma melting of ash (Takuma SN)
	Chuo Energy from Waste plant  Harumi, Chuo-ku, Tokyo	220,000	2001	Moving grate furnace incinerator (Hitachi Zosen)

## What meetings have been arranged?

Jackson Environment and Planning Pty Ltd has arranged the following meetings in Tokyo between 12 and 16 February 2018 for tour participants:

- *Regulatory officials from the Bureau of Environment, Tokyo Metropolitan Government*
- *Operational site tour of the Sugunami Energy from Waste Plant, Ota Energy from Waste Plant, Sagami-hara City Minami Energy from Waste Plant, Setagaya Energy from Waste Plant, Nerima Energy from Waste Plant and the Chuo Energy from Waste Plant*

At the conclusion of the tour, a report will be prepared by Jackson Environment and Planning Pty Ltd for participants summarizing the findings and outcomes of the tour. The report will also provide an up to date account of energy from waste projects under development, and finance opportunities in Australia.

## Meeting priorities and expected outcomes

To help in the transfer of knowledge and to identify possible trade and technology transfer opportunities between Japan and Australia, Jackson Environment and Planning Pty Ltd has arranged inspections and site tours of six energy from waste plants and a meeting with Japanese Government officials. Key priorities for the meetings include:

- *Discussion and review of the planning, impact analysis and environmental assessment and approach to incineration and energy from waste projects in Tokyo;*
- *Review the community consultation approaches deployed at the project planning stage, and typical community beliefs and expectations regarding existing plants and plants at the planning stage;*
- *Understand the environmental performance of older and new plants in operation in Tokyo, environmental emissions, thermal efficiency performance, and government regulation and performance of these plants;*
- *Key learnings from development and delivery of public energy from waste infrastructure;*
- *Ongoing environmental performance of plants, particularly with respect to air emissions; and*
- *Site inspections and reviews of six plants in Tokyo*

## Who is leading the tour?

### Dr Mark Jackson, Director and Principal Consultant



The tour will be led by Dr Mark Jackson, Director and Principal Consultant of Jackson Environment and Planning Pty Ltd. Mark is a nationally recognised waste management specialist with 23 years' experience in the field. He is Director of Jackson Environment and Planning Pty Ltd, a specialist infrastructure, planning and advisory firm based in Sydney.

Mark's firm is responsible for leading many resource recovery infrastructure planning approval projects across NSW, as well as EPA licensing of these facilities. Mark has a keen interest in industry development, technology transfer and international best practice. Mark led our first Japan study tour of Energy from Waste infrastructure in 2017.

### Ms Sachiko Ohba ("JJ"), Business and Trade Advisor, Tokyo, Japan

Local coordination and facilitation of the tour will be performed by Ms Sachiko Ohba, business and trade advisor, who is based in Tokyo. Ms Ohba is a bilingual business and marketing specialist who is fluent in Japanese and English.

Ms Ohba has supported many businesses with developing trade and global expansion opportunities in Japan. She has a keen interest in supporting Western companies with local orientation and development of trade relationships with Japanese firms. Ms Ohba will attend all meetings arranged to assist in translation and meeting facilitation where required.



## Tour inclusions



- Transport to and from meetings and site tours;
- All lunches and dinners during the tour (except for free nights and on the day of departure);
- All costs associated with coordination, facilitation and translation services at meetings;
- A report prepared by Jackson Environment and Planning Pty Ltd summarizing the findings and outcomes upon completion of the tour.

Please note that tour participants will need to organise their own flights, hotel accommodation, transfers from / to the airport and travel insurance. We can provide guidance on preferred flights. Flights into Haneda airport is preferable, due to closer proximity to Tokyo.

We recommend participants book into the Royal Park Hotel The Shiodome (4.5 star). This is a centrally located Western style hotel close to public transport and major attractions. Bookings can be made online via the [Wotif](#) or [Booking.com](#) web sites. It is recommended participants check in on Sunday 11 February and check out on Saturday 17 February 2018.

## Registration Form (Please complete details below)

Tour participant name(s):			
Position:		Organisation:	
Post address:			
Telephone (direct):		Mobile:	Email:
Key outcomes sought from the tour:			

### I acknowledge that:

1. The cost associated with the tour is **\$4,150.00 (ex. GST)**.
2. I am responsible for booking and paying directly for my own flights to and from Tokyo and my hotel accommodation in Tokyo.
3. I am responsible for taking out my own travel insurance policy.
4. I acknowledge that the meeting times, dates and locations arranged as part of the tour are fixed and I am responsible for ensuring that I am available to join the tour on Monday 12 February 2018 in Tokyo.
5. Full payment for the tour is required at time of booking.
6. Cancellation and refund policy. Cancellations and refunds will only be accepted up until 11 January 2018 less an administration fee of \$200.00 (ex. GST). Cancellations after 11 January 2018 will result in forfeit of payment.
7. Electronic bank transfer, Cheque, Mastercard, Visa, American Express and Paypal are all accepted forms of payment.
8. We will issue you a tax invoice once your booking form is received and your request is accepted.
9. Please note that confirmation of your place on the tour can only be done once payment is made.
10. You authorize that your name, position and organizational name can be provided by Jackson Environment and Planning Pty Ltd to the hosts of meetings.
11. Jackson Environment and Planning Pty Ltd reserves the right to not accept your booking.
12. Places are limited and places will be assigned based on the date of registration.

Name	Date	Signature
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Please email your completed booking form to: [admin@jacksonenvironment.com.au](mailto:admin@jacksonenvironment.com.au) as soon as possible.

## Further information

Please contact:

Dr Mark Jackson, Director, Jackson Environment and Planning Pty Ltd  
T: (02) 9956 3866 or E: [mark@jacksonenvironment.com.au](mailto:mark@jacksonenvironment.com.au).