

Tour inclusions

The tour includes the following items:



- All transfers, including from Tokyo Narita International
- Airport to hotel (and return), and all 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 and travel insurance. We can provide guidance on preferred flights. Also note that transport from the Tokyo Narita International Airport will depart ~6pm. Participants will need to check arrival times for flights or arrange own transport to the hotel.

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 Monday 13 March and check out on Saturday 18 March 2017.

Optional tour extension



For participants looking to extend their stay in Japan, an optional tour of the Japanese Alps is available. Participants can experience some of the best snow conditions in Japan, only three hours via bullet train from Tokyo to the Nagano region.

We will be staying in Hakuba, one of the premier snow and cultural capitals of Japan. Hakuba was part of the host mountains for the 1998 Winter Olympics, and has world class ski facilities.

A visit to the region in March is ideal given very deep snow conditions, with reduced crowds after the peak season in January and February.

Should you wish to extend your tour, please advise us of your interest at registration. This tour is not included in the base tour package.

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 **\$4,300.00** (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 13 March 2017 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 13 February 2017 less an administration fee of \$200.00 (ex. GST). Cancellations after 13 February 2017 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 as soon as possible.

For further information about the study and trade tour, please contact: **Dr Mark Jackson, Director and Principal Consultant, Jackson Environment and Planning Pty Ltd. T: (02) 9956 3866 or E: mark@jacksonenvironment.com.au.**

Energy from Waste Infrastructure and E-waste Recycling – Japan Study & Trade Tour



Sagami City Energy from Waste Plant in Tokyo

About the study and trade tour

Jackson Environment and Planning Pty Ltd is a specialist infrastructure and planning firm and is organising a study and trade tour in Tokyo, Japan, 13-18 March 2017 focusing on advanced energy from waste infrastructure and electronic waste recycling opportunities.

As part of the tour we will inspect three advanced energy from waste plants in Tokyo, meet with the Tokyo Bureau of Environment and Japan's Ministry of Environment responsible for approving and regulating these plants. We will also be meeting with a leading recycler of electronic waste looking to secure electronic waste for processing across the Asia-Pacific region. To help in technology transfer opportunities, we will also be meeting with the Australian Government's Trade Commissioner in Japan.

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. Collectors of electronic waste looking for export and processing opportunities will also be interested in participating in the tour.

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 and trade 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.




What meetings have been arranged?

Jackson Environment and Planning Pty Ltd has arranged the following meetings in Tokyo between 13 and 18 March 2017 for tour participants:

- Planning officials from the Bureau of Environment, Tokyo Metropolitan Government
- Planning officials from the Ministry of Environment, Japan
- Operational site tour of the Setagaya Energy from Waste Plant, Tokyo (110,000 tonnes per annum municipal solid waste facility);
- Operational site tour of the Ota Energy from Waste Plant, Tokyo (220,000 tonnes per annum municipal solid waste facility);
- Operational site tour of the Sagami City Minami Energy from Waste Plant (190,000 tonnes per annum municipal solid waste facility);
- Meeting with the AusTrade Commissioner in Japan, Tokyo; and
- Meeting with a Japanese electronic waste recycler seeking to secure E-waste from Australia.

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.

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
	Setagaya Energy from Waste plant Okura, Setagaya-ku	110,000	2008	Fluidised bed incinerator with plasma melting of ash (Kawasaki). Treatment and energy recovery from municipal solid waste from the district of Setagaya.
	Ota Energy from Waste plant Keihinjima, Ota-ku	220,000	2014	Stoker type mass burn incinerator with plasma melting of ash (Takuma SN). Treatment and energy recovery from municipal solid waste from the district of Ota.
	Sagami City Minami Refuse Energy from Waste Plant Sagami City	190,000	2010	Fluidized bed gasification with plasma melting of ash (Kobelco). Treatment and energy recovery from municipal solid waste from the southern district of Sagami City. City total population is 710,000.

Why inspect facilities in Tokyo?

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 three energy from waste plants and meetings with Local Government and 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;
- Site inspections and reviews of three plants in Tokyo;
- Identification of trade and technology transfer opportunities between Japan and Australia in discussions with AusTrade's Trade Commissioner in Japan; and
- Connections with electronic waste recyclers in Tokyo seeking to import electronic waste for processing and recycling across the Asia Pacific region.

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.

For 12 years, he has held senior management positions in the NSW EPA, leading some of the largest behaviour change, industry development and infrastructure investment programs in the country's history.

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.

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.

