

WASTE MANAGEMENT ASSOCIATION OF AUSTRALIA 2006 STUDY TOUR

16 - 29 September 2006

*30 September - 6 October 2006 for ISWA Congress Optional
Please note this itinerary is subject to change.*



**WASTE
MANAGEMENT
ASSOCIATION
OF AUSTRALIA**

NATIONAL OFFICE:

Suite 4D, Level 4
5 Belmore Street
BURWOOD NSW 2134
T 02 8746 5000
F 02 9701 0199
E enquiries@wmaa.asn.au
W www.wmaa.asn.au

| | |
|-------------------------------------|---|
| Saturday 16 th Sep 2006 | <p>Depart Australia mid-afternoon Arrive Hong Kong evening</p> |
| Sunday 17 th Sep 2006 | <p>Free day in Hong Kong</p> |
| Monday 18 th Sep 2006 | <p>Site Visit: WENT HONG KONG</p> <p>One of the largest landfills in the world received 6000t per day, 7 days a week</p> <p>Site Visit: Island East Transfer Station Inspired by the Norwegian experience, the government carried out a series of studies to look into the underground option for urban development. These studies confirmed the feasibility of using space underground in rock caverns for building municipal facilities. Of the various feasible schemes identified, the potential to build in-cavern waste treatment and disposal facilities was particularly attractive. With the encouragement of these studies and coupled with the immense difficulty in locating a suitable water-front site in the western district of the Hong Kong Island, we eventually decided to build a refuse transfer station in an underground cavern under Mount Davis.</p> |
| Tuesday 19 th Sep 2006 | <p>Late night flight to Barcelona Arrive Barcelona mid-afternoon Free afternoon in Barcelona</p> |
| Wednesday 20 th Sep 2006 | <p>Site Visit: Biowaste Separate Collection System, Mercabarna SPAIN</p> <p>Largest central Market for the distribution of food throughout Barcelona and surrounding areas</p> <p>Site Visit: Waste Management and Treatment Plant, Botarell Composting plant, transfer station and recycling point</p> <p>Meeting and discussion about the situation and trends on the biowaste management in Catalunya & Spain.</p> |
| Thursday 21 st Sep 2006 | <p>Site Visit: EcoPark Mallorca SPAIN</p> <ul style="list-style-type: none"> • Sorting of packaging material (green dot) • Anaerobic digestion of organic waste • Drum composting • tunnel composting |
| Friday 22 nd Sep 2006 | <p>Drive to Montpellier Site Visit: Ocreal Waste to Energy Plant FRANCE</p> <ul style="list-style-type: none"> • 120,000 tonnes per year capacity • 2 furnaces of 8 tonnes/hr capacity • 65,000 MWh/yr electricity recovered • Strong environmental impact monitoring: air, soils, water, vineyard and sanitary impact evaluation • Designed to comply with the stringent conditions of the EC Incineration of Waste Directive 2000/76/EC (deNOX to be achieved by 2008) |

| | |
|---|---|
| | <p>Site Visit: Bellegarde Waste Treatment Complex</p> <p>Including:</p> <ul style="list-style-type: none"> • K1 landfill (hazardous waste) with a stabilization facility • Domestic / C&I landfill with pre-treatment of waste • Indoor composting facility (BioWise type technology) for biosolids and greenwaste |
| Saturday 23 rd Sep 2006 | Free day in Montpellier |
| Sunday 24 th Sep 2006 | <p>AM Travel to Paris</p> <p>Free afternoon in Paris</p> |
| Monday 25 th Sep 2006 FRANCE | <p>Site Visit: AZALYS Waste to Energy Facility</p> <ul style="list-style-type: none"> • Outstanding architectural design • Operating since 1998 • Capacity 115,000tpa made of 85,000t of MSW and 30,000 of C&I <p>Site Visit: Gennevilliers</p> <p>Very large facility located on Seine river bank for C&D and C&I</p> <ul style="list-style-type: none"> • C&D transfer station and sorting facility • Transfer is made by barge • C & I MRF • 60,000 tonnes C & D waste; 25,000 tonnes wood waste; 35,000 tonne transfer station <p>EU Regulations Forum</p> |
| Tuesday 26 th Sep 2006 FRANCE | <p>Site Visit: Plessis-Gassot Landfill</p> <ul style="list-style-type: none"> • A 250 hectare model unit (with 50ha landscaped field), a treating capacity of 1.100.000 ton per year. Latest modern equipment and infrastructure waste origin, reduce all kinds of emissions, treatment and waste recovery, high level security • Biogas recovery into energy: collection and production of renewable energy from waste - production of 80 million of electric KWH per year which is the yearly consumption in electricity of a 30 000 inhabitants city <p>Site Visit: CGECP Aurore</p> <p>Integrated waste management system including:</p> <ul style="list-style-type: none"> • A municipal-clinical waste incinerator processing a total of 160,000tpa of municipal and clinical waste and provides hot water (150,000 MWh/year of thermal energy) to heat 30,000 homes in the area. 7 MWh of electricity is produced to service on site needs with the excess being provided to EdF. • A MRF with a capacity of 80,000tpa recovering glass, paper and plastics. • Undercover composting facility which produces 13,000tpa of compost. Composting is carried out in windrows and 6 weeks is the normal production time. Its high quality allows agricultural use. |
| Wednesday 27 th Sep 2006 THE NETHERLANDS | <p>Site Visit: OMRIN EcoPark, De Wierde</p> <p>Omrin's recycling mostly takes place at Ecopark De Wierde in Oudehaske. There the various sorts of waste are sorted and processed. The largest part of this is garbage, but white and brown goods, glass, car tyres, dredge spoil slurry, polluted soil and building and demolition waste are also sorted and/or processed.</p> |

| | |
|---|---|
| | <p>Site Visit: Twence</p> <ul style="list-style-type: none"> • Energy from Waste/Gasification • Composting • Tyre recycling (trial) • Asbestos Separation (trial) <p>Site Visit: Vertical Transfer Station The Multi Compact Waste Transfer Station, combined with its transportation solution, meets all environmental requirements, the design is flexible and furthermore allows the client an optimal use of the space available. This particular facility contains 6 silo position and processing 350 ton/day.</p> |
| <p>Thursday 28th Sep 2006 THE NETHERLANDS</p> | <p>Site Visit: AVR Rozenburg</p> <ul style="list-style-type: none"> • Healthcare Sector Waste Treatment - AVR Sterifant® • Hazardous Waste Treatment • Recycling <p>Site Visit: HVC Alkmaar</p> <ul style="list-style-type: none"> • Sorting • Heat Treatment |
| <p>Friday 29th Sep 2006 THE NETHERLANDS</p> | <p>Site Visit: Almere, Centralned Underground Vacuum Collection System</p> <p>Site Visit: Orgaworld Lelystad Organic Waste Treatment/Tunnel Composting</p> <p>Site Visit: Lelystad Biomass Plant Fly to Copenhagen / Return to Australia</p> |
| <p>Saturday 30th Sep 2006</p> | <p>Free day in Copenhagen</p> |
| <p>Sunday 1st Oct 2006 DENMARK</p> | <p>Free day in Copenhagen ISWA Ice Breaker Reception & Registration</p> |
| <p>Monday 2nd Oct 2006 DENMARK</p> | <p>ISWA Congress - Conference Presentations Reception</p> |
| <p>Tuesday 3rd Oct 2006 DENMARK</p> | <p>ISWA Congress - Conference Presentations Gala Dinner</p> |
| <p>Wednesday 4th Oct 2006 DENMARK</p> | <p>ISWA Congress</p> |
| <p>Thursday 5th Oct 2006 DENMARK</p> | <p>ISWA Congress - Technical Tours / Seminars</p> <ul style="list-style-type: none"> • Tour 1: Thermal Treatment of Waste (SYSAV Incineration Plant, Malmö, Sweden) • Tour 2: Hazardous Waste (KommuneKemi, Nyborg, Denmark) • Tour 3: Biological Treatment (Aikan Plant, Solum-Gruppen, Holbæk) • Tour 4: Sanitary Landfill (AV-Miljø, Hvidovre, Denmark) • Tour 5: Collection & Transportation (R98, Copenhagen, Denmark) • Tour 6: Communication & Social Issues (I/S Vestforbrænding) • Tour 7: Recycling (Copenhagen Recycling Centre) • Tour 8: Clinical Waste (Special Waste System, Nørre Alslev) • Seminar 1: Waste Management in East Europe • Seminar 2: ISWA Regional Development Networks • Seminar 3: The New EU Waste Policy - Revision of the EU WFD |
| <p>Friday 6th Oct 2006</p> | <p>Return to Australia</p> |