

## RESOURCE RECOVERY COMMITTEE

### MINUTES

10 July 2008

(REF: COMMITTEES-8234)

A meeting of the Resource Recovery Committee was held at the EMRC Administration Office, 1<sup>st</sup> Floor, 226 Great Eastern Highway, BELMONT WA 6104 on **Thursday, 10 July 2008**. The meeting commenced at **5.03pm**.

### TABLE OF CONTENTS

---

<b>1</b>	<b>DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS</b>	<b>1</b>
<b>2</b>	<b>ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE PREVIOUSLY APPROVED</b>	<b>1</b>
<b>3</b>	<b>DISCLOSURE OF INTERESTS</b>	<b>2</b>
3.1	<i>MR STEPHEN FITZPATRICK – MANAGER PROJECT DEVELOPMENT – INTERESTS AFFECTING IMPARTIALITY</i>	<b>2</b>
3.2	<i>MR GAVIN WATTERS – CHIEF EXECUTIVE OFFICER – INTERESTS AFFECTING IMPARTIALITY</i>	<b>2</b>
<b>4</b>	<b>ANNOUNCEMENT BY THE CHAIRMAN OR PERSON PRESIDING WITHOUT DISCUSSION</b>	<b>2</b>
<b>5</b>	<b>CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS</b>	<b>2</b>
5.1	<i>MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 5 JUNE 2008 (Ref: Committees-7713)</i>	<b>2</b>
<b>6</b>	<b>PRESENTATIONS</b>	<b>2</b>
6.1	<i>PRESENTATION ON THE ANAECO DICOM ALTERNATIVE WASTE TREATMENT FACILITY AT SHENTON PARK</i>	<b>3</b>
6.2	<i>PRELIMINARY PRESENTATION ON THE THERMAL FINANCIAL MODELLING STAGING OPTIONS</i>	<b>3</b>
<b>7</b>	<b>ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC</b>	<b>4</b>
<b>8</b>	<b>BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING</b>	<b>4</b>
<b>9</b>	<b>REPORTS OF OFFICERS</b>	<b>5</b>
9.1	<i>WASTE AND RECYCLE 2008 CONFERENCE (Ref: Committees-8252)</i>	<b>5</b>
9.2	<i>CONSULTANCY CONTRACT PROGRESS REPORT (Ref: Committees-8250)</i>	<b>15</b>
<b>10</b>	<b>CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC</b>	<b>19</b>
<b>11</b>	<b>GENERAL BUSINESS</b>	<b>19</b>
11.1	<i>SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE IN VENICE, ITALY FROM 17 TO 20 NOVEMBER 2008 (Ref: Committees-8251)</i>	<b>20</b>
<b>12</b>	<b>FUTURE MEETINGS OF THE RESOURCE RECOVERY COMMITTEE</b>	<b>32</b>
<b>13</b>	<b>DECLARATION OF CLOSURE OF MEETING</b>	<b>32</b>

---



## 1 DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS

The Chairman opened the meeting at 5.03pm and welcomed Mr John King and Mr Ronan Cullen from Cardno BSD.

## 2 ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE PREVIOUSLY APPROVED

### Committee Members

Cr David Lavell ( <b>Chairman</b> )	EMRC Member	Shire of Mundaring
Cr Tina Klein	EMRC Member	Town of Bassendean
Cr Sylvan Albert	EMRC Member	City of Bayswater
Mr James Riley (Deputising for Mr Rimpas)	Manager Environmental Health	City of Bayswater
Cr Glenys Godfrey	EMRC Member	City of Belmont
Cr David Sadler	EMRC Member	Shire of Kalamunda
Mr Jonathan Smith (Deputising for Mr Singh)	Manager Health Services	Shire of Kalamunda
Cr Charlie Zannino ( <b>Deputy Chairman</b> )	EMRC Member	City of Swan
Mr Colin Pumphrey (Deputising for Mr Coten)	Manager Transport and Waste Development Services	City of Swan
Mr Gavin Watters	Chief Executive Officer	EMRC

### Apologies

Cr Gerry Pule	EMRC Member	Town of Bassendean
Mr Simon Stewert-Dawkins	Director Operational Services	Town of Bassendean
Mr George Rimpas	Director Technical Services	City of Bayswater
Mr Ric Lutey	Director Technical Services	City of Belmont
Mr Mahesh Singh	Executive Manager, Engineering Services	Shire of Kalamunda
Mr Shane Purdy	Executive Manager, Infrastructure Services	Shire of Mundaring
Mr Adrian Dyson	Manager Health Services	Shire of Mundaring
Mr Jim Coten	Executive Manager, Operational and	City of Swan

### Deputy Committee Members - Observers

Cr David Färdig	EMRC Member	City of Swan
-----------------	-------------	--------------

### EMRC Officers

Mr Stephen Fitzpatrick	Manager, Project Development
Mr Adam Johnson	Executive Manager, Waste Management Services
Mr Mick McCarthy	Executive Manager, Regional Services
Ms Mary-Ann Winnett	Personal Assistant to the Executive Manager Corporate Services (Minutes)

### EMRC Apologies

Mr Peter Schneider	Executive Manager, Corporate Services
--------------------	---------------------------------------

### Consultants

Mr John King	Cardno BSD Joint Venture
Mr Ronan Cullen	Cardno BSD Joint Venture



### **3 DISCLOSURE OF INTERESTS**

#### **3.1 MR STEPHEN FITZPATRICK – MANAGER PROJECT DEVELOPMENT – INTERESTS AFFECTING IMPARTIALITY:**

Item: 11.1  
Subject: Venice 2008 Conference Attendance  
Nature of Interest: Disclosure of Interests Affecting Impartiality, EMRC Code of Conduct 1.3(a).  
Named in the report item as recommended to attend the conference.

#### **3.2 MR GAVIN WATTERS – CHIEF EXECUTIVE OFFICER – INTERESTS AFFECTING IMPARTIALITY:**

Item: 11.1  
Subject: Venice 2008 Conference Attendance  
Nature of Interest: Disclosure of Interests Affecting Impartiality, EMRC Code of Conduct 1.3(a).  
Named in the report item as recommended to attend the conference.

### **4 ANNOUNCEMENT BY THE CHAIRMAN OR PERSON PRESIDING WITHOUT DISCUSSION**

Nil

### **5 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS**

#### **5.1 MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 5 JUNE 2008**

That the Minutes of the Resource Recovery Committee meeting held on 5 June 2008, which have been distributed, be confirmed.

#### **RRC RESOLUTION(S)**

MOVED CR GODFREY                      SECONDED CR ALBERT

THAT THE MINUTES OF THE RESOURCE RECOVERY COMMITTEE MEETING HELD ON 5 JUNE 2008, WHICH HAVE BEEN DISTRIBUTED, BE CONFIRMED.

**CARRIED UNANIMOUSLY**

### **6 PRESENTATIONS**

The Chairman advised that there would be two presentations and the additional presentation Item 6.2 - PRELIMINARY PRESENTATION ON THE THERMAL FINANCIAL MODELLING STAGING OPTIONS would be dealt with at this point in the meeting followed by Item 6.1 PRESENTATION ON THE ANAECO DICOM ALTERNATIVE WASTE TREATMENT FACILITY AT SHENTON PARK.



## **6.1 PRESENTATION ON THE ANAECO DICOM ALTERNATIVE WASTE TREATMENT FACILITY AT SHENTON PARK**

The Manager Project Development gave a presentation on the Anaeco Dicom Alternative Waste Treatment Facility at Shenton Park and provided the following responses to questions raised by members:

- When the water is drained out it could be reused when it is a three stage digester facility, the processed water would flow from one digester to the next and be totally contained on site;
- The process operates as a sequential batch operation so it is a continuous operation when the three digestors are in place;
- At this stage the facility is not operational but it is assumed that they would be able to find a market for the composted organic material;
- With regard to the pathogens and whether or not they have been able to destroy all of them, the Manager Project Development advised that he understood that this was taken care of in the first two stages and provided the right temperature is maintained for the right amount of time any pathogens would be killed;
- The Manager Project Development advised that Anaeco would have been through the process of trying to identify the risks involved but at this stage he's unaware of what those risks are. The \$2.7 million in federal government funds was mainly used for research and development. The main risk will be the scale-up from pilot stage to full scale.

Cr Godfrey asked Mr King if he had any further comments on the Dicom facility. Mr King responded that the whole industry is waiting to see what happens because there are a lot of advantages, small footprint and it would be good to see it progress from pilot stage to full production.

The Manager Project Development advised that Anaeco estimate it has cost \$13 million to get to the current stage and would probably end up costing around \$20 million to \$30 million. Anaeco have said that it would have been cheaper to build a bigger facility up front.

Mr King advised that it was a BOO contract – Anaeco have a contract with Western Metropolitan Regional Council (WMRC) and another with the City of Stirling and their approach is to build and operate the facility. The Manager Project Development advised that Anaeco have advised that they would be prepared to licence the technology.

## **6.2 PRELIMINARY PRESENTATION ON THE THERMAL FINANCIAL MODELLING STAGING OPTIONS**

**Item 6.2 - PRELIMINARY PRESENTATION ON THE THERMAL FINANCIAL MODELLING STAGING OPTIONS was considered by the RRC earlier in the meeting prior to Item 6.1 PRESENTATION ON THE ANAECO DICOM ALTERNATIVE WASTE TREATMENT FACILITY AT SHENTON PARK.**

The Chairman explained that this was a preliminary presentation which had been given to the Project Advisory Group (PAG) earlier today and it had generated some interesting discussion.

There was considerable discussion by members on whether to build a bigger facility up front and the issues that would need to be considered. Members felt it was essential to have agreement with everyone concerned and it would be very sensible to work out the contracts prior to commencing construction of a facility. Members also felt that there were significant economic reasons for building a larger facility up front. Mr King advised that more work needs to be undertaken to get a better degree of accuracy with regard to capital costs and how the capital costs vary between starting with a smaller facility and adding to it later as opposed to building a larger facility from the outset.

---



*Item 6.2 continued*

The Chief Executive Officer advised that the Forum of Regional Councils (FORC) have been trying to address all the issues about municipal waste streams and residual waste from Resource Recovery facilities and trying to get a balance between the different resource recovery technologies available. There have also been discussions about building an anaerobic digestion resource recovery facility up front and then starting the thermal process. Mr King advised that the EMRC was in the best position to build a thermal facility but needs to consider whether to build a 100,000 or 130,000 thermal plant up front (which would be all of EMRC's waste stream). He further advised that Cardno BSD were tracking the carbon credit debate very closely.

Mr King advised that Cardno BSD were currently undertaking more work on the contract delivery methods (BOO & D&C) and one of the key issues being considered is how the capital cost varies with different size plants.

Mr King advised that initially there had been strong opposition in the community on thermal waste technologies but that is changing.

In response to a request for an explanation of FORC the Chief Executive Officer advised that the committee was formed 15-18 months ago and each Regional Council pays into the EMRC on a proportional basis depending on population. The Committee meets every two months or so and considers issues like waste to energy, the WARR Bill and the relationship with MWAC. Cr Färdig commented that it was good to see how these groups can get together and support each other and he was hoping that once the EMRC Council had collated all the information and looked at waste to energy that the EMRC would be able to get rid of the region's waste in a viable manner. The Chief Executive Officer advised that the Southern Metropolitan Regional Council (SMRC) and Mindarie Regional Council (MRC) were already looking at the thermal process on a smaller scale so EMRC would be in a better position to consider the thermal option later.

**7 ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC**

Nil

**8 BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING**

Cr Godfrey referred to a previous RRC meeting and a statement that the EMRC was looking at incorporating the resource recovery park and asked for an explanation. The Manager Project Development advised that one of the ownership options for the Resource Recovery Facility was for a joint venture with a technology provider and preliminary legal advice was that we could only do that as an unincorporated venture which creates some issues but does not rule it out as an option.



## **9 REPORTS OF OFFICERS**

### **9.1 WASTE AND RECYCLE 2008 CONFERENCE**

**REFERENCE: COMMITTEES-8252**

#### **PURPOSE OF REPORT**

To advise Council of the forthcoming Waste and Recycle 2008 Conference to be held in Fremantle from 8-12 September at the Convention Centre, Esplanade Hotel, Fremantle.

#### **KEY ISSUES AND RECOMMENDATION(S)**

- The annual State Waste and Recycle Conference is to be held between 8-12 September 2008.

##### **Recommendation(s)**

1. That councillors and officers note the dates of the forthcoming conference.
2. That Councillors \_\_\_\_\_ be authorised to attend the Waste and Recycle 2008 Conference.
3. That places be offered to the Waste Management Community Reference Group in the event that some members may wish to attend.

#### **SOURCE OF REPORT**

Manager Project Development.

#### **BACKGROUND**

Advice has been received that the Waste and Recycle 2008 Conference is being held between 8-12 September 2008 in Fremantle and that the theme of the conference is "The Heat is On: No Time to Waste".

#### **REPORT**

The Waste and Recycle Conference is an annual event which caters to those involved in waste management and recycling. In 2007, three EMRC Councillors, three EMRC officers and three WMCRG members registered to attend the Waste & Recycle Conference. The EMRC officers and the WMCRG members shared their registrations with five other officers/members.

The theme for 2008 is "The Heat is On: No Time to Waste" which draws on the effect of climate change on life and the need for emission reduction. There are six keynote and invited speakers including three from the USA, one each from Canada, Italy and New Zealand, details of which and the proposed conference topics are attached (Attachment 1).

The conference programme has not yet been developed but generally covers a range of issues that are generally of interest to the Eastern Metropolitan Regional Council. A conference assessment form is attached, recommending attendance (Attachment 2). For the last four years, registrations have been offered to members of the Waste Management Community Reference Group (WMCRG) and it would seem appropriate that a similar arrangement be made for this conference to acknowledge the work that the WMCRG do.

---



*Item 9.1 continued*

The pre-conference sessions this year are detailed in Attachment 3 and cover:

- Planning in an Uncertain Climate: State Government, Climate Change and Planning Policy;
- Strategic Waste Management Plan: Have Plan, Will Travel;
- Landfill Tour and Workshop;
- Tour of Brockway Transfer Station including DiCom AWT Facility, Wangara MRF and Mindarie Regional Council and workshops on Integrating Sustainability and Full Day Bins Workshop - Best Practice Kerbside Performance; and
- National Packaging Covenant Workshop.

### **STRATEGIC/POLICY IMPLICATIONS**

Two of the host organisations are WALGA and the Waste Management Association of Australia. The EMRC supports both of the organisations by participating in their activities and by cooperating and sharing information with others.

### **FINANCIAL IMPLICATIONS**

The expenditures for councillor and officer attendance at conferences are budgeted each year. Similarly, an allowance is made each year in the Resource Recovery Budget for WMCRG members to attend local conferences and seminars. The cost for a full registration this year is \$1,400 and several other options are available including a day registration on a selected day for \$485, refer Attachment 4.

### **SUSTAINABILITY IMPLICATIONS**

Nil

### **MEMBER COUNCIL IMPLICATIONS**

<b>Member Council</b>	<b>Implication Details</b>
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

### **ATTACHMENT(S)**

1. Preliminary Conference Details (Ref: Committees-8256)
2. EMRC Conference Assessment Form – Waste and Recycle Conference 2008 (Ref: Committees-8255)
3. Pre-conference session selection (Ref: Committees-8261)
4. Conference registration options (Ref: Committees-8262)



*Item 9.1 continued*

## VOTING REQUIREMENT

Simple Majority

## **RECOMMENDATION(S)**

1. That councillors and officers note the dates of the forthcoming conference.
2. That Councillors \_\_\_\_\_ be authorised to attend the Waste and Recycle 2008 Conference.
3. That places be offered to the Waste Management Community Reference Group in the event that some members may wish to attend.

Mr King and Mr Cullen departed Council Chambers at 5.55pm.

Cr Godfrey stated that every day of the conference there seemed to be a workshop and asked if there were any keynote speakers. The Manager Project Development advised that the pre-conference workshops were being held on Tuesday 9 and Wednesday 10 September 2008. The workshops were on climate change and strategic waste management plans and there were also tours of facilities such as Brockway (Dicom), Wangara Materials Resource Facility (MRF) and Mindarie Regional Council (MRC). The conference papers would be delivered on Thursday 11 and Friday 12 September 2008.

Cr Färdig advised Councillors that they did not have to attend all sessions and he was happy to share a membership with someone else as he could only attend on Friday 12 September 2008.

The Manager Project Development advised that in the call for papers there was a list of keynote papers and topics being addressed and some general information but a programme was not available yet.

Cr Albert advised that he could attend on Thursday 11 September 2008 and Crs Klein, Lavell and Godfrey advised they were also interested in attending the Waste and Recycle Conference 2008.

The Chief Executive Officer advised that when the Waste and Recycle Conference had been held in previous years he had received numerous questions regarding accommodation because it was a long way from our Region and pointed out that currently our policy does not allow for accommodation to be provided. Crs Färdig and Albert advised they were happy to return home at the conclusion of the conference and Cr Klein advised that she didn't attend the dinners.

## **RRC RECOMMENDATION(S)**

MOVED CR KLEIN

SECONDED CR ZANNINO

1. That councillors and officers note the dates of the forthcoming conference.
2. That Councillors Färdig, Godfrey, Albert, Klein, and Lavell be authorised to attend the Waste and Recycle 2008 Conference.
3. That places be offered to the Waste Management Community Reference Group in the event that some members may wish to attend.

**CARRIED UNANIMOUSLY**

---



*Item 9.1 continued*

Cr Albert advised that he would like to share a registration rather than attend the full conference.

**AMENDMENT**

Moved Cr Albert, seconded Cr Godfrey that recommendation 2 be amended to include Cr Pule as an attendee as follows:

1. THAT COUNCILLORS FÄRDIG, GODFREY, ALBERT, KLEIN, LAVELL AND PULE BE AUTHORISED TO ATTEND THE WASTE AND RECYCLE 2008 CONFERENCE.

The substantive motion included the amended recommendation 2.

**COUNCIL RESOLUTION(S)**

MOVED CR ALBERT

SECONDED CR GODFREY

1. THAT COUNCILLORS AND OFFICERS NOTE THE DATES OF THE FORTHCOMING CONFERENCE.
2. THAT COUNCILLORS FÄRDIG, GODFREY, ALBERT, KLEIN, LAVELL AND PULE BE AUTHORISED TO ATTEND THE WASTE AND RECYCLE 2008 CONFERENCE.
3. THAT PLACES BE OFFERED TO THE WASTE MANAGEMENT COMMUNITY REFERENCE GROUP IN THE EVENT THAT SOME MEMBERS MAY WISH TO ATTEND.

**CARRIED UNANIMOUSLY**

---



WASTE & RECYCLE  
2008 CONFERENCE

# The Heat is On: No Time to Waste

8–12 September 2008

The Convention Centre, The Esplanade Hotel  
Fremantle, Western Australia

## Call for Papers and Expressions of Interest



### How to apply to present at the Conference

#### If you would like to present at the Conference:

- Submit your proposed presentation title, three dot points on your presentation and your biography to [reception@keynotewa.com](mailto:reception@keynotewa.com) or post to the Secretariat address by 1 March 2008.
- Clearly indicate the abstract title, presenting author's name, contact details and any associated authors.

An abstract proforma is available on the Conference website. To download this document please visit the Conference website at [www.wasteandrecycle.com.au](http://www.wasteandrecycle.com.au).

The Waste & Recycle Committee will advise all applicants of their decision on submissions by April 2008.

#### Speaker Requirements

In accepting a presentation position at the Conference, all speakers are agreeing to provide the following material to the Conference Secretariat:

- A completed paper for inclusion in the Conference Proceedings, due 24 May 2008.
- Provide a current electronic photo.
- A completed speaker information kit.

Speakers who have provided their paper (by 24 May 2008) will be eligible for a discounted registration. Each speaker has the option to upgrade their paper with more recent information before the Conference should this be required.

All speakers are also required to attend a meeting with the audio visual technicians on the day of their presentation at 8.00 am to confirm their presentation is in order and to meet their chairperson.

Visit the Conference website for more information and constant updates to the program:

[www.wasteandrecycle.com.au](http://www.wasteandrecycle.com.au)

Disclaimer: The information contained within this document is correct at the time of publication. Keynote Conferences, the Organising Committee and Host Organisations reserve the right to alter or delete items from the Conference. None shall be held liable for any cost or damage arising from any action based on the information herein.

### Proposed Keynote and Invited Speakers

#### Jeff Seadon

Senior Lecturer in Resource Management,  
The UNITEC Institute of Technology, New Zealand  
Topics of interest: Developing sustainability through an integrated approach and waste avoidance.

#### Enzo Favoino

Scuola Agraria del Parco di Monza, Italy;  
Chair of the working group on Biological Treatment at the International Solid Waste Association  
and member of the Board of ECN-European Compost Network  
Topics of interest: Organics and relationship with climate change.

#### Mike Munger

Senior Lecturer in Economics and Political Science,  
Duke University, USA  
Topics of interest: Economics of recycling and market failure.

#### Garth Hickie

Product Stewardship Team Leader,  
Minnesota Pollution Control Agency, USA  
Topics of interest: Product Stewardship and e-waste.

#### Helen Speigelman

President, Product Policy Institute, Canada  
Topics of interest: EPR

#### Sandra Cointreau

Solid Waste Management Advisor, World Bank, USA  
Topics of interest: Waste management and diseases related to waste products.

HOST ORGANISATIONS



Department of  
Environment and Conservation  
Our environment, our future



WASTE MANAGEMENT  
ASSOCIATION  
OF AUSTRALIA



WALGA



# The Heat is On: No Time to Waste

WASTE & RECYCLE 2008 CONFERENCE  
8-12 SEPTEMBER 2008  
THE ESPYLADE HOTEL, FREMANTLE

- 2-3°C increase in temperature** equates to **30% of species** at increasing risk of extinction
- 3-4°C increase in temperature** equates to **30% of global coastal wetland lost**
- 5°C increase in temperature** will cause a **huge increase in droughts, floods and human mortality**

The Stern Report warns "climate change threatens the basic elements of life for people around the world—access to water, food production, health, and use of land and the environment". We need to cut our global emissions by at least 50% by 2050 to reduce the risk of suffering extreme climate change impacts. This is no longer a scientific prediction but an accepted outcome unless we change our behaviours.

Population increase, coupled with ever growing consumption and increasing exploitation of natural resources is placing increasing pressure on our environment. The waste management industry is in a position to make a significant contribution through effective practices and encouraging resource efficiency.

The best time to do something about climate change was 20 years ago, the next best is now. Be part of the solution.

The 2008 Waste & Recycle Conference is hosted by the Department of Environment and Conservation, the Waste Management Association of Australia and the Western Australian Local Government Association.

Delegates will have the opportunity to hear papers and keynote presentations, attend site tours and interactive workshops, participate in the panel sessions—or tailor a combination of these to fit their schedule and help answer some of the burning questions facing our industry. There will also be an internal trade exhibition and external 'big toys' exhibition, showcasing leading edge technology and machinery in the waste management industry.

To secure your place and receive regular updates in the lead up to this year's event, register your interest now using the 'Expression of Interest' form attached.

## What's in it for me?

The Waste & Recycle Conference has become an annual fixture on the industry calendar since 1991 and is held regularly in the second week of September. This premier event brings waste management and recycling experts together in one forum where issues can be mapped out and solutions explored.

## Delegates attending can expect:

- Participation in discussions regarding the delicate balance between waste management, the environment and our economy.
- Accessing tools and strategies to improve corporate environmental performance.
- Enhancing your knowledge of current trends within the industry.
- Expanding your knowledge of the industry's regulatory framework.
- Investigating how you and your organisation can improve your waste management strategies and practices.
- Understanding how industry activities impact on the environment and analysing options for improvement.
- Networking in an informal setting with your peers in the waste industry.

## Proposed topics this year include:

- Climate Change • Extended Producer Responsibility • Carbon Offsets
- Global Changes and Impacts on Waste Management • National C&D Roundup • Organics and Compost • Case Studies and Practical Implementation • Hazardous Waste • Contaminated Sites • E-Waste
- Rural Issues • Waste Education • Waste Avoidance • Legislation • National Policies.

## How do I get involved?

### Speaker/Workshop Presenters

Please read the 'How to Apply' section and complete an 'Expression of Interest/Submissions' form.

### Sponsors/Exhibitors

Please log on to [www.wasteandrecycle.com.au](http://www.wasteandrecycle.com.au) to read about the various packages available.

### Delegates

Please complete the 'Expression of Interest/Submissions' form.

## Expression of Interest/Submissions

Please complete and return this form to ensure you are on the mailing list to receive more information on the Conference.

The following information may be made available to parties directly related to the event including bus organisations, the database contractor event and accommodation venues, speakers and sponsors. Should you not wish for your details to be made available to these parties, please contact Keynote Conferences on the number below.

PLEASE PRINT CLEARLY

SURNAME: ..... TITLE: .....

FIRST NAME: .....  
ORGANISATION: .....  
POSITION: .....

POSTAL ADDRESS: .....

SUBURB: ..... POST CODE: ..... COUNTRY: .....

TEL: ..... FAX: .....

EMAIL: .....

I am interested in:

- Attending the 2008 Waste & Recycle Conference
- Chairing a Session
- Sponsorship Packages
- Internal Exhibition Opportunities
- External Exhibition Opportunities
- Attending Tours

I am submitting three dots points (summary) and biography for:

- Presenting a Paper
- Participating in a Panel

My abstract is:

- Attached to this form
- Being sent by mail

Will be sent by email to [reception@keynotewa.com](mailto:reception@keynotewa.com)

Conference Secretariat address for all correspondence:  
Keynote Conferences

Suite 36 • 375 Hay Street • Subiaco • Western Australia • 6901  
Tel: (61 8) 9382 3799 • Fax: (61 8) 9380 4006

Email: [reception@keynotewa.com](mailto:reception@keynotewa.com) • Web: [www.keynotewa.com](http://www.keynotewa.com)

Conference website: [www.wasteandrecycle.com.au](http://www.wasteandrecycle.com.au)

# the heat is on: no time to waste





## Tuesday and Wednesday Pre Conference Session Selection

### Tuesday 9th September

This section is to be completed if applicable to the registration type selected on the previous page includes the Tuesday sessions. i.e. Options 1A, 1B, 4A. Should you select from the below and it is not included in your registration type, the Conference Secretariat will amend your registration type to include your below additional option which may incur an increase to your registration fee.

#### Not Attending On Tuesday

#### Planning in an Uncertain Climate Workshop:

Planning in an Uncertain Climate: State Government, Climate Change and Planning Policy  
8.30am-12.30pm  
Workshop  
Available with Registrations Options 1A,1B or 4A

#### Strategic Waste Management Plan: Have Plan, Will Travel:

1.30pm - 5.30pm  
Workshop  
Available with Registrations Options 1A,1B or 4A

#### Full Day, Landfill Tour and Workshop

8.30am - 4.30pm  
Tour and Workshop  
Available with Registrations Options 1A,1B or 4A

### Wednesday 10th September

This section is to be completed if applicable to the registration type selected on the previous page includes the Tuesday sessions. i.e. Options 2A, 2B, 3A, 3B, 5 or 6. Should you select from the below and it is not included in your registration type, the Conference Secretariat will amend your registration type to include your below additional option which may incur an increase to your registration fee.

#### Not Attending On Wednesday

<b>Tour 1, Brockway DiCOM© AWT Facility</b>	8.30am - 12.30pm Tour Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Wangara MRF &amp; Mindarie Regional Council Tour:</b>	9.30am-3:30pm Tour Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Snapshots to Integrating Sustainability Session</b>	8.30am - 12.30pm Workshop Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Full Day Bins Workshop, Best Practice Kerbside Performance</b>	8.30am - 5.30pm Workshop Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Tour 2, Brockway DiCOM© AWT Facility</b>	1.30pm - 5.30pm Tour Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Fruit of the Vines, Food of the Gods Tour:</b>	1.30pm - 5.30pm Tour Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>External Big Toys Exhibition:</b>	1.30pm - 5.30pm Interactive Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>National Packaging Covenant Workshop</b>	1.30pm - 5.30pm Workshop Available with Registrations Options 1A,1B,2A,2B,5 or 6
<b>Resource Recovery Tour</b>	9:30am - 3:30pm Tour



## Registration Page

Registration Type	Entitlements	Cost Including 10% GST
<b>Option 1A: Tuesday - Friday</b>	Access to all sessions on Tuesday, Wednesday, Thursday and Friday, Trade Exhibitions, the Sundowner, Welcome Reception, the Tropical Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings.	1400.00
<b>Option 2A: Wednesday - Friday</b>	Access to all sessions on Wednesday, Thursday and Friday, Trade Exhibitions, the Welcome Reception, the Tropical Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings.	1200.00
<b>Option 3A: Thursday - Friday</b>	Access to all sessions on Thursday and Friday, Trade Exhibitions, the Welcome Reception, the Tropical Cocktail and the Conference Dinner. Plus a Conference Satchel and Conference Proceedings.	960.00
<b>Option 4A: Tuesday Only</b>	Access to all sessions on Tuesday only, the Trade Exhibitions, the Sundowner and a Conference Satchel.	250.00
<b>Option 4B: Meet The Authority Breakfast</b>	This event provides an opportunity for you to meet the new Members of the Waste Authority for Western Australia, as well as an opportunity to interact with a range of key players from the industry.	65.00
<b>Option 5: Wednesday - One Session Only</b>	Access to a single half day tour or workshop selected for Wednesday, the Trade Exhibitions and a Conference Satchel	125.00

<b>Option 6: Wednesday Full Day</b>	Access to a full day of tours/workshops selected for Wednesday and the Trade Exhibitions and a Conference Satchel	250.00
<b>Option 7: Thursday Full Day</b>	Access to all sessions on Thursday, the Trade Exhibitions and a Conference Satchel	485.00
<b>Option 8: Friday Full Day</b>	Access to all sessions on Friday, the Trade Exhibitions and a Conference Satchel	485.00
<b>Option 9: Previously Registered Attendee</b>	Previously Registered Attendee	0.00



## 9.2 CONSULTANCY CONTRACT PROGRESS REPORT

**REFERENCE: COMMITTEES-8250**

### PURPOSE OF REPORT

To inform Council of the consultants' (Cardno BSD/Meinhardt) progress on the Resource Recovery Project Consultancy Contract.

### KEY ISSUES AND RECOMMENDATION(S)

- Meetings between the Cardno BSD Project team and EMRC officers were held in June 2008 to review an action plan to progress the tasks currently underway and to resolve issues arising from presentations on the Preferred Options Report.
- Financial consultant Terry Ord is reviewing the application of the HM Treasury model to the EMRC Preferred Options Financial Model.
- Cardno BSD have prepared an action plan to try and resolve the issues related to the contract model and the technology type and staging.
- Alternatives for the Expression of Interest (Eoi)/Tender process are being evaluated.

#### Recommendation(s)

That the report be received.

### SOURCE OF REPORT

Manager Project Development

### BACKGROUND

The Request for Tender (RFT) 2004/1 was advertised on 1 May 2004 and closed on 28 May 2004 resulting in the receipt of four tenders. After detailed evaluation, interview of the complying tenderers and consideration by members of the Technical Advisory Committee (TAC) acting as a review panel, it was resolved on 23 September 2004 that:

- "1. COUNCIL ACCEPT THE TENDER FROM BSD/MEINHARDT EXCLUDING TASK 21 (CONTRACT ADMINISTRATION).*
- 2. THE CEO BE AUTHORISED TO ENTER INTO A CONTRACT WITH BSD/MEINHARDT IN THE FORM OF THE CONSULTANCY CONTRACT (EMRC-13662) TO PROVIDE THE SERVICES DESCRIBED IN TASKS 1-20, 22 AND 23 RELATING TO THE ESTABLISHMENT OF A RESOURCE RECOVERY FACILITY FOR THE EASTERN METROPOLITAN REGIONAL COUNCIL (CONTRACT NO 2004/1) INCORPORATING THE FOLLOWING SCHEDULE OF PRICE AND HOURS, WITH SUCH AMENDMENTS AS ARE REQUIRED OR NECESSARY TO ADAPT THE CONSULTANCY CONTRACT TO FULLY RECORD THE REPRESENTATIONS, WARRANTIES, COVENANTS AND AGREEMENTS PROVIDED IN THE BSD/MEINHARDT TENDER:*

	<b>BOO</b>	<b>BOOT</b>	<b>D&amp;C</b>
<b>Price (ex GST)</b>	\$727,850	\$736,990	\$849,730
<b>Hours</b>	6,414	6,486	7,437



*Item 9.2 continued*

3. *THE SCORING RESULTS CIRCULATED WITH THIS AGENDA REPORT ITEM 9.5 REMAIN CONFIDENTIAL AND BE PLACED ON A FILE MARKED 'CONFIDENTIAL' AND BE CERTIFIED BY SIGNATURE OF THE CHAIRMAN OF THE COUNCIL AND THE CHIEF EXECUTIVE OFFICER."*

## **REPORT**

Since the confidential presentation to the 5 June 2008 meeting of the RRC on the risk assessment of the Resource Recovery Project delivery options, a meeting has been held between the Cardno BSD Project team and EMRC officers to review an action plan to progress the tasks currently underway and to resolve issues arising from the June RRC presentation.

Cardno BSD have prepared an action plan which involves:

- Task 8, 9, and 11 Preferred Options Report Amendments. Finalising agreed amendments on the Draft Preferred Options report including information about the impact of multi-unit dwellings, technology options versus no change, background to a Federal Government Emissions Trading Scheme, Contract Delivery Mechanism qualitative versus quantitative analysis, NPV analysis on alternative use of the Secondary Waste Treatment Fund, sensitivity of project to fuel price fluctuations;
- As part of finalising the above report, consultant Terry Ord has been asked to review the applicability of the HM Treasury Model and the optimism bias analysis of the BOO versus D&C contract delivery options;
- Task 3 – Community Consultation. Review of community consultation process, e.g. possible re-survey of community to determine whether there has been any change to the community views on thermal technologies, especially in light of climate change debate;
- Task 8 – Staging of the Project. Review financial model, based upon combined anaerobic module and thermal module; review financial model, based upon single stage thermal; calculate the volume of available MSW from other councils &/or Regional Councils; research and understand thermal technologies, e.g. modularity of thermal modules, staging of modules within a single facility; research range of suppliers and proposed/commissioned projects; research as to whether “peak oil” and energy crisis has uncovered any issues for/against thermal approach;
- Task 7 – Financial Modelling. Research as to whether climate change debate has uncovered any issues for/against thermal approach; and
- Task 15 – Environmental Approvals, Task 16 – Planning Approvals. Research the approvals process for the different technology options, especially thermal waste treatment options.

It is anticipated that there will be a report back on the above issues from Cardno BSD Meinhardt JV for the 7 August PAG and RRC meetings.

The EMRC have also asked Cardno BSD Meinhardt JV to address the question of seeking an EoI/Tender for more than one contract option rather than trying to solve the issue of a preferred contract type before the EoI/Tender process commences. Another alternative for Cardno BSD Meinhardt JV to address is to seek EoI's for the technology options only, leaving the ownership and contract delivery mechanism open and then going to tender for a preferred technology type and ownership/contract delivery mechanism having assessed the technologies and the EMRC's ability to manage the technology. These options for EoI/Tender will be reported to the RRC at the August or September meetings.

---



*Item 9.2 continued*

### **STRATEGIC/POLICY IMPLICATIONS**

The Consultancy Contract is consistent with the EMRC strategic objective to “minimise the environmental impact of waste disposal”.

### **FINANCIAL IMPLICATIONS**

The cost of using consultants Cardno BSD Meinhardt JV arising from the Request for Tender 2004/1 is budgeted at approximately \$365,000 in the 2008/2009 Budget under – Resource Recovery – Implement Resource Recovery Project Plan. There is also an allowance of \$2,000,000 for capital expenditure on Resource Recovery Facilities associated with Hazelmere in the 2008/2009 Budget under – Resource Recovery – Implement Resource Recovery Project Plan, carried over from the 2007/2008 Budget.

### **SUSTAINABILITY IMPLICATIONS**

The Resource Recovery Facility and/or Resource Recovery Park will contribute toward “minimising the environmental impact of waste”.

### **MEMBER COUNCIL IMPLICATIONS**

<b>Member Council</b>	<b>Implication Details</b>
Town of Bassendean	} The EMRC will continue to advise member Councils as the project proceeds.
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

### **ATTACHMENT(S)**

Nil

### **VOTING REQUIREMENT**

Simple Majority

### **RECOMMENDATION(S)**

That the report be received.

The Manager Project Development summarised the report for the RRC and advised that Cardno BSD are currently working on the finalisation of the Preferred Options report. The EMRC has also asked Cardno BSD to look at the EoI for more than one contract option, what it means for each and what happens if we just go out to tender for a technology to treat our waste stream.

---



*Item 9.2 continued*

Cr Albert asked if the EMRC and Cardno BSD were progressing too slowly in regards to the Resource Recovery Project and felt that although we were looking at other alternatives some of the information being presented was repetitive and he felt the EMRC should be getting closer to the decision making process. The Chief Executive Officer responded that the RRC and Council had decided early on in the project to take its time because of emerging technologies, lack of confidence on existing technologies and there was also the possibility of taking a break at a certain stage. The EMRC would like to see the Dicom facility come to fruition and he feels the EMRC was operating in accordance with the wishes of the Council although there had been some hold-ups due to checking the information provided.

Cr Klein stated that we live in uncertain times with regard to financial positions at the moment and wondered if it was too premature to make a presentation to member Councils at this stage and wondered at what stage that should be undertaken. The Manager Project Development advised that the EMRC was aware of that and also because of the change of Councillors at the last local government election so Cardno would like to finalise the options and then there would be a round of presentations to the member Councils to keep them informed. Cr Klein stated that Councils need to know what to keep in mind, especially around budget time. The Manager Project Development replied that Councils would not need to make any budgeting decisions for some time yet as the Eol and tender process would need to be undertaken first.

The Chairman advised that the report was anticipated to be ready for the 7 August 2008 RRC meeting. The Manager Project Development advised that it may be a week later than that, there had been some discussion and if not complete by that deadline an update would be provided.

**RRC RECOMMENDATION(S)**

MOVED CR ALBERT

SECONDED CR GODFREY

That the report be received.

**CARRIED UNANIMOUSLY**

**COUNCIL RESOLUTION(S)**

MOVED CR ZANNINO

SECONDED CR PULE

THAT THE REPORT BE RECEIVED.

**CARRIED UNANIMOUSLY**

---



**10 CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC**

Nil

**11 GENERAL BUSINESS**

Cr Godfrey advised that she had been sent a copy of correspondence regarding eco films and received samples of biodegradable shopping bags that the City of West Torrens in Adelaide had given out during Citizenship ceremonies. They have a biodegradable bag for the kitchen and another one for shopping. Cr Godfrey passed them around for members to look at and suggested that the EMRC could produce one for the region with the R-Gang brand. Cr Albert asked if the EMRC could provide quotes on all of the different types of re-usable bags being distributed.

The Chief Executive Officer advised that EMRC would be happy to prepare a report for the Committee.

In response to Cr Godfrey's query on whether batteries were being collected yet at the Belmont Forum Shopping Centre the Manager Project Development advised that the Waste Education Coordinator had been setting up there this week.

The Manager Project Development mentioned that the 2008/09 Waste and Recycling Guides had been produced and were in the process of being distributed, some by direct mail and some with rate notices, so the latest they would be distributed would be end of July/early August. He further advised that they were the same format as last year but incorporated some of the suggestions made by focus groups, there would also be a large print version available and it was available in four different languages on the web site.



The Chairman advised that Mr Stephen Fitzpatrick, Manager Project Development and Mr Gavin Watters, Chief Executive Officer had disclosed Interests Affecting Impartiality, (EMRC Code of Conduct 1.3(a)) under Items 3.1 and 3.2 of this agenda in Item 11.1 – Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008.

## LATE ITEM

### 11.1 SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE IN VENICE, ITALY FROM 17 TO 20 NOVEMBER 2008

**REFERENCE: COMMITTEES-8251**

## PURPOSE OF REPORT

To advise Council of the forthcoming Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008.

## KEY ISSUES AND RECOMMENDATION(S)

- The Second International Symposium on Energy from Biomass and Waste is being held in Venice, Italy from 17 to 20 November 2008.
- The aim of the Venice 2008 Symposium is to focus on the advances made in the application of technologies for energy recovery from biomass and waste including anaerobic digestion and thermal applications.
- Given that the Resource Recovery Project may include waste to energy technologies, attendance at this conference would be relevant and timely as we analyse the technologies options and proceed towards the Expressions of Interest process.
- The four day conference includes one day for technical tours of examples of plant treating waste or biomass for the production of energy including incinerators plants; refuse derived fuel production plants, anaerobic digestion and biofuels plants.

### Recommendation(s)

That the Chief Executive Officer and the Manager Project Development and Cr(s) ..... attend the Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008.

## SOURCE OF REPORT

Manager Project Development  
Chief Executive Officer

## BACKGROUND

At the 26 July 2007 meeting Council resolved to send two EMRC officers, the RRC Chairman and the TAC Chairman to attend the ISWA World Congress and the Sardinia Landfill Symposium as follows:

*“THAT THE ACTING EXECUTIVE MANAGER, WASTE MANAGEMENT SERVICE, ATTEND THE INTERNATIONAL SOLID WASTE ASSOCIATION WORLD CONGRESS IN AMSTERDAM, THE ELEVENTH INTERNATIONAL WASTE MANAGEMENT AND LANDFILL SYMPOSIUM IN SARDINIA, AND VISIT LONDON REMADE AND THE WUPPERTAL INSTITUTE FOR CLIMATE, ENVIRONMENT AND ENERGY IN SEPTEMBER AND OCTOBER OF 2007.”*



*Item 11.1 continued*

*THAT THE MANAGER PROJECT DEVELOPMENT ATTEND THE INTERNATIONAL SOLID WASTE ASSOCIATION WORLD CONGRESS IN AMSTERDAM, THE ELEVENTH INTERNATIONAL WASTE MANAGEMENT AND LANDFILL SYMPOSIUM IN SARDINIA, AND VISIT LONDON REMADE AND THE WUPPERTAL INSTITUTE FOR CLIMATE, ENVIRONMENT AND ENERGY IN SEPTEMBER AND OCTOBER OF 2007.*

*THAT THE RESOURCE RECOVERY COMMITTEE CHAIRMAN OR NOMINATED DEPUTY ATTEND THE INTERNATIONAL SOLID WASTE ASSOCIATION WORLD CONGRESS IN AMSTERDAM, THE ELEVENTH INTERNATIONAL WASTE MANAGEMENT AND LANDFILL SYMPOSIUM IN SARDINIA, AND VISIT LONDON REMADE AND THE WUPPERTAL INSTITUTE FOR CLIMATE, ENVIRONMENT AND ENERGY IN SEPTEMBER AND OCTOBER OF 2007.*

*THAT THE TECHNICAL ADVISORY COMMITTEE MEMBER COUNCIL OFFICER ATTEND THE INTERNATIONAL SOLID WASTE ASSOCIATION WORLD CONGRESS IN AMSTERDAM, THE ELEVENTH INTERNATIONAL WASTE MANAGEMENT AND LANDFILL SYMPOSIUM IN SARDINIA, AND VISIT LONDON REMADE AND THE WUPPERTAL INSTITUTE FOR CLIMATE, ENVIRONMENT AND ENERGY IN SEPTEMBER AND OCTOBER OF 2007."*

Report item 9.1 of the 13 March 2008 meeting of the RRC reported on the conference attendance and associated facility visits and a presentation was made to the 20 March 2008 meeting of Council. Council resolved that:

- "1. THE REPORT BE RECEIVED.*
- 2. RELEVANT INFORMATION FROM THE CONFERENCES AND VISITS BE UTILISED IN THE RESOURCE RECOVERY PROJECT.*
- 3. EMRC OFFICERS WRITE TO LONDON REMADE THANKING THEM FOR THEIR TIME AND EXPLORING POSSIBLE AVENUES FOR FURTHER INFORMATION EXCHANGE.*
- 4. EMRC OFFICERS WRITE TO COMPACT POWER AND KOMPOGAS THANKING THEM FOR HOSTING THE RECENT VISITS AND REQUESTING MORE INFORMATION ON CAPITAL AND OPERATING COSTS TO ASSIST OUR RESOURCE RECOVERY EVALUATIONS."*

## **REPORT**

Attendance at the September/October 2007 ISWA Congress in Amsterdam, the Sardinia Landfill Symposium and the associated resource recovery facility visits were invaluable both from the information obtained, the contacts made and the first hand experience from the facility visits.

An opportunity exists to attend the Venice 2008 Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008. This is a conference organised by the International Waste Working Group (IWWG) and the Technical University of Hamburg (TUHH) and focuses on the advances made in the application of technologies for energy recovery from biomass and waste including anaerobic digestion and thermal applications.

The final conference program is not yet available but the conference outline, themes and organising committee are detailed in the attached information taken from the conference website (Attachment 1). The program includes the following waste to energy alternatives:

### **Anaerobic digestion**

Appropriate technologies for different organic substrates, Processes, Operation, Residues, Gas cleaning and Quality upgrading, Gas utilisation, Handling and treatment of residues (digestate, wastewater), Analytical and monitoring parameters.

### **Refuse Derived Fuel (RDF)**

Characterisation and Quality, Handling and Storage, Utilisation, Co-incineration, Residues from RDF incineration.

---



Item 11.1 continued

### **Thermal treatment (Incineration, Pyrolysis, Gasification and Others**

Processes, Energy balance, Technologies, Efficiency, Upgrading of existing plants, Corrosion and Operation problems, Gas cleaning.

The EMRC Preferred Resource Recovery Facility Options are yet to be finalised but at this stage include anaerobic digestion and other waste to energy options. As the EMRC goes through the investigation and review process on these technology options over the second half of 2008, it will be beneficial for the Chief Executive Officer and Manager Project Development to attend the Venice 2008 Second International Symposium on Energy from Biomass and Waste. Attendance at this conference has been discussed with the EMRC Chairman. The Committee may also consider it appropriate to nominate a Councillor(s) to also attend.

Whilst the costs, estimated under Financial Implications, are relatively high at \$18,000 per head, given Policy 6.2 of travelling business class for overseas trips, the cost could be mitigated by leaving a day or two earlier and travelling economy class. This would save in the vicinity of \$8,000 per person.

It is recommended that the RRC Chairman or nominated Deputy together with the EMRC Chief Executive Officer and Manager Project Development attend the Symposium. Opportunities to visit waste to energy facilities close to the conference in addition to those offered as part of the conference this will be investigated.

### **STRATEGIC/POLICY IMPLICATIONS**

Waste management and resource recovery are key ongoing and future strategies identified in the EMRC Strategic Plan.

### **FINANCIAL IMPLICATIONS**

In accordance with EMRC Policy 6.2, Members of Council and Committees – Conferences, Seminars and Other Events – Reimbursement, the policy provides for air travel - international destinations as follows:

- Return business class airfare for Council and Committee members;
- Return business class airfare for the Chief Executive Officer, Executive Managers and non-Executive employees accompanying and assisting Council or Committee member(s); and
- Where business class airfare is not available, economy class is to be used.

Accordingly, the cost of attending this conference has been estimated below, based on current exchange rates, business class airfares and conference recommended accommodation prices.

<b>Item</b>	<b>Cost per Person(\$)</b>
Airfares Perth-Europe (business)	<b>13,000</b>
<b>Venice 2008 Symposium</b>	
Conference registration	2,000
Accommodation (6 nights)	1,400
Transfers	200
<b>Total Symposium</b>	<b>3,600</b>
Meals	1,000
Train/taxi fares to attend symposium	400
<b>GRAND TOTAL</b>	<b>18,000</b>

If economy class airfares are used, and there are two extra nights accommodation the cost per person will decrease to around \$9,000 i.e. this allows for \$3,000 airfare and \$1,000 extra for accommodation and expenses.



*Item 11.1 continued*

Funds for the cost of the international conference attendance are provided for in the draft 2008/2009 budget - Undertake Resource Recovery Project Study Tour (72884/02) - \$203,000. This may require additional funds to be provided in the 2008/2009 budget.

**SUSTAINABILITY IMPLICATIONS**

Nil

**MEMBER COUNCIL IMPLICATIONS**

<b>Member Council</b>	<b>Implication Details</b>
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

- 1 Venice 2008 Symposium Themes (Ref: Committees-8260)
- 2 Conference Assessment Form (Ref: Committees-8297)

VOTING REQUIREMENT

Simple Majority

**RECOMMENDATION(S)**

That the Chief Executive Officer and the Manager Project Development and Cr(s) ..... attend the Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008.

**AMENDMENT**

Cr Zannino moved an amendment to the recommendation that in addition to the RRC Chairman, Cr Färdig be added as an attendee to the Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008. Cr Zannino stated that he thought the Chairman of the EMRC should be included.

Cr Klein stated, with all due respect to the Chairman of the EMRC, that Cr Färdig was just a deputy member on the RRC so his importance was no more than any other member's importance on this Committee.

The RRC Chairman felt that the EMRC Chairman should attend and if cost was critical then attendees should travel economy class. Cr Klein stated that all members were interested but felt that the RRC Chairman should attend.

---



*Item 11.1 continued*

The Chairman felt that due to the importance of the Resource Recovery Project that as many Councillors as possible should attend.

Cr Zannino moved again that the EMRC Chairman be included.  
Cr Godfrey was against the inclusion of the EMRC Chairman.

Cr Zannino spoke to the motion and stated that the Committee were all aware of the costs but he felt that with the magnitude of the Resource Recovery Project, the EMRC Chairman should be included to go along with the Chairman of the RRC, the Chief Executive Officer and the Manager Project Development. Cr Zannino stated that Cr Färdig, as the EMRC Chairman was the head of the EMRC and when it comes to debating and representing the EMRC it would be better if he gained information first-hand rather than trying to digest the information second-hand. He appreciated that all Councillors would like to go but that was out of the question. He pointed out that in any other Council the Chairman or Deputy Chairman was the one to represent the area, especially in a matter of significant importance, and if the project goes ahead hundreds of millions of dollars would be spent.

The Chairman pointed out that at this stage there was no seconder to the amendment. Cr Klein seconded the amendment, stating that she had listened to Cr Zannino's comments and while she didn't agree with everything he said she had felt the mood of the Committee and felt there was support for the EMRC Chairman to attend.

Cr Sadler stated that sending four people was too many, but to send five people was going overboard, four people should be able to gain enough information to provide to everyone else. The Chairman advised that even with the inclusion of the EMRC Chairman, only four people were going. Cr Sadler reiterated that he felt the Committee should support the officer recommendation of three and those people can then provide everyone else with the information. The Chief Executive Officer advised that the officer recommendation was for two officers to attend, one of whom was himself. At this point the Chief Executive Officer reinforced his declaration of impartiality declared at Item 3.2. The Chief Executive Officer explained that the officer recommendation was for two officers to attend and it was left to the RRC to recommend which Councillors should attend and at this stage the recommendation is for Crs Färdig and Lavell to attend.

Members discussed the cost of \$18,000 per person for travelling business class. The Chief Executive Officer referred to the last paragraph on page 3 and advised that the cost would decrease to approximately \$9,000 by travelling economy class. The Chief Executive Officer explained that the previous arguments for travelling business class when attending overseas conferences was that people would be more refreshed by going business class. The last paragraph provided another option of travelling economy class but allowing up to two extra nights accommodation to give travellers time to recover and the combined cost would still save approximately \$9,000 per person.

Cr Albert asked for clarification on whether the attendees would be travelling business or economy class.

The Chief Executive Officer advised that if the RRC felt travellers should travel economy class then it should be stated in the recommendation.

Cr Zannino advised that he was happy to include in the amendment that attendees travel economy class and that the Chief Executive Officer, Manager Project Development and Crs Färdig and Lavell attend the Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008.

The substantive motion included the amendment.

---



*Item 11.1 continued*

## **RRC RECOMMENDATION(S)**

MOVED CR GODFREY

SECONDED CR ZANNINO

That the Chief Executive Officer and the Manager Project Development and Cr(s) Färdig and Lavell attend the Venice 2008, Second International Symposium on Energy from Biomass and Waste in Venice, Italy from 17 to 20 November 2008 travelling economy class and the timetable to be arranged by the Manager Project Development.

**CARRIED UNANIMOUSLY**

Cr Albert moved the following recommendation:

THAT:

1. THE CHIEF EXECUTIVE OFFICER, MANAGER PROJECT DEVELOPMENT, CR FÄRDIG AND ALL COUNCILLOR MEMBERS OF THE RESOURCE RECOVERY COMMITTEE ATTEND THE VENICE 2008, SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE IN VENICE, ITALY FROM 17 TO 20 NOVEMBER 2008 TRAVELLING ECONOMY CLASS AND THE TIMETABLE BE ARRANGED BY THE MANAGER PROJECT DEVELOPMENT AND THAT EITHER THE COUNCILLOR MEMBERS OR ALTERNATE RRC DEPUTIES ATTEND.
2. THE PARTY ATTENDING THE SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE CONFERENCE TAKE THE OPPORTUNITY TO VISIT GASIFICATION, MASS BURN AND ANAEROBIC DIGESTION TREATMENT PLANTS IN PREPARATION FOR SHORT LISTING TECHNOLOGIES FOR TENDER FOLLOWING THE EXPRESSIONS OF INTEREST PROCESS.

The Chairman advised that the Resource Recovery Project (RRP) was approaching the time for selection of technologies such as gasification, mass burn and anaerobic and Cr Albert was suggesting that the Resource Recovery Committee (RRC) visit those sites to see the technologies first-hand.

Cr McKechnie stated that the symposium was being held in Venice and asked where the other technology plants were located. The Manager Project Development advised that the conference in Venice included a technical tour to one of the plants and the other plants were in Germany and other countries close to Venice.

In response to Cr Godfrey's query on the cost for the trip if all RRC members were included, the Executive Manager Corporate Services advised that the cost, based on nine people traveling economy class, would be approximately \$81,000 excluding the costs associated with recommendation 2.

Cr Sadler stated that the original recommendation had been to send four people at a cost of approximately \$18,000 so the total cost would have been in the vicinity of \$72,000. The amended recommendation was to send all RRC Committee members to the conference which would provide representation from each member Council so that Councillors could demonstrate the knowledge they had acquired when reporting back to their respective member Councils.

Cr Pule stated that a considerable saving had been made when the RRC had recommended travelling economy class rather than business class and as Councillors were required to report back to their respective Councils in relation to any issues such as this it was much better to be able to report back from direct experience and observations rather than second-hand information. Cr Pule also stated that Councillors needed to have good reporting skills to assist their respective Councils in making informed decisions, especially when dealing with a project such as the RRP which involved such large expenditure.

The Chairman stated that he had discussed this issue with the Chief Executive Officer and invited the Chief Executive Officer to give his opinion.

---



*Item 11.1 continued*

The Chief Executive Officer advised that he had reflected on the suggestion to include all RRC members at the symposium and had also met with Mr John King of Cardno BSD and looked at it in terms of the RRP approaching the Expression of Interest (EOI) stage soon. The Chief Executive Officer felt that as Councillors and officers would need to be able to select tenders from EOI it was necessary to have a good knowledge of the technologies available so it was a good opportunity to acquire that knowledge.

Cr Magro commented that \$9,000 seemed exorbitantly high for the return airfare alone. The Manager Project Development explained that the \$9,000 covered the cost of the return airfare, the conference fees and an allowance for accommodation.

Cr McKechnie asked when the EOI stage would commence, as he was concerned that Councillors would attend the conference and acquire the required knowledge, but may not put it to use if the EOI stage commenced after the next Council elections. The Manager Project Development advised that the EOI stage was scheduled to commence towards the end of this year and be completed towards the middle of next year.

In response to Cr Magro's query on whether EMRC had sufficient funds in the budget to cover the symposium the Executive Manager Corporate Services advised that the draft budget would be submitted to the August meeting of Council and there was a provision of \$203,000 for RRC study tours.

**COUNCIL RESOLUTION(S)**

MOVED CR ALBERT

SECONDED CR PULE

THAT:

1. THE CHIEF EXECUTIVE OFFICER, MANAGER PROJECT DEVELOPMENT, CR FÄRDIG AND ALL COUNCILLOR MEMBERS OF THE RESOURCE RECOVERY COMMITTEE ATTEND THE VENICE 2008, SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE IN VENICE, ITALY FROM 17 TO 20 NOVEMBER 2008 TRAVELLING ECONOMY CLASS AND THE TIMETABLE BE ARRANGED BY THE MANAGER PROJECT DEVELOPMENT AND THAT EITHER THE COUNCILLOR MEMBERS OR ALTERNATE RRC DEPUTIES ATTEND.
2. THE PARTY ATTENDING THE SECOND INTERNATIONAL SYMPOSIUM ON ENERGY FROM BIOMASS AND WASTE CONFERENCE TAKE THE OPPORTUNITY TO VISIT GASIFICATION, MASS BURN AND ANAEROBIC DIGESTION TREATMENT PLANTS IN PREPARATION FOR SHORT LISTING TECHNOLOGIES FOR TENDER FOLLOWING THE EXPRESSIONS OF INTEREST PROCESS.

**CARRIED UNANIMOUSLY**

---

# VENICE 2008

*Second International Symposium on Energy from Biomass and Waste*  
**17 - 20 November 2008** - *Fondazione Cini - Venice Italy.*

## Executive programme board

Bernd BILITEWSKI, Technical University of Dresden (DE)  
 Raffaello COSSU, University of Padua (IT)  
 Luis F. DIAZ, CalRecovery Inc., Concord, CA, (USA)  
 Rainer STEGMANN, Hamburg University of Technology (DE)

## Organised by

IWWG - International Waste Working Group  
 Technical University of Dresden (DE)  
 University of Padua (IT)  
 Hamburg University of Technology (DE)

## PRESENTATION

The production of energy from alternative sources and its impact on climate change are among the main strategic tools implicated in the sustainable development of our society.

Accordingly, numerous types of biomass and wastes contribute towards the production of energy and reduction in the use of fossil fuels by means of biological, chemical and thermal processes. Further to the above, in modern integrated waste management scenarios the waste-to-energy process allows the cycle to be closed. Existing biomass and waste to energy technologies are currently undergoing rapid development: processes are being optimised and new ideas for technical application proposed. Despite the growing interest in the use of these technologies, in many countries their implementation remains limited, chiefly due to reasons other than those of a technical and economical nature (i.e. scarce public acceptance, negative past experiences, insufficient knowledge, to mention but a few).

The aim of the Venice 2008 Symposium is to focus on the advances made in the application of technologies for energy recovery from biomass and waste and to encourage discussion on relevant aspects such as:

- *reliability of processes and technologies,*
- *full scale applicability of new processes,*
- *technical and economical optimization,*
- *improvement of energy balance,*
- *environmental impact and potential health effects,*

- *information and education,*
- *selection of the appropriate process for the specific situation,*
- *adaptation of technologies to different geographical and cultural situations.*

The programme of the Symposium will last four days (three days of scientific sessions and one day for technical tours) and will include oral sessions, a poster session and a small exhibition by companies working in the field.

The Symposium is organized by IWWG and the Universities of Dresden, Hamburg and Padua. IWWG (International Waste Working Group, [www.iwwg.eu](http://www.iwwg.eu)) is a registered not-for-profit organisation aiming to provide an intellectual platform to encourage and support integrated and sustainable waste management and to promote practical scientific development in the field. The group was conceived in 2002 as a think tank, whose work would be based on scientific principles oriented towards practical application. The IWWG is structured in such a way as to allow it to focus on a range of subjects, to react promptly to problems in the field, and to communicate efficiently within the professional community. The official journal of IWWG, *Waste Management*, published by Elsevier, has the highest impact factor in the field. Among the activities of IWWG is the organization of Sardinia Symposium (further information on the website [www.sardiniasymposium.it](http://www.sardiniasymposium.it)), in cooperation with the Universities of Hamburg and Padua.

## VENUE AND LOCATION

Venice 2008 will be held in Venice in the prestigious setting of the Fondazione Cini on the island of S. Giorgio Maggiore (in front of St. Mark's Square). Detailed information on the location of the venue is available from the Symposium website.

## TRAVEL AND ACCOMMODATION

All delegates and authors are expected to make their own travel arrangements. A number of hotels in the area of St. Mark's Square have agreed to apply special rates for Venice 2008 delegates. For a list of hotels and booking information, please consult the Symposium website.

## EXHIBITION

A small exhibition will be held during the conference where organizations and companies can display technical literature and associated material. For further information please contact the organizing secretariat.

## CONTACTS

**EuroWaste**  
 Via Beato Pellegrino 23  
 35137 Padova, Italy  
 Tel. +39 049 8726986  
 Fax. +39 049 8726987  
 e-mail: [eurowaste@tin.it](mailto:eurowaste@tin.it)

Continuously updated information is available on the web page: [www.venicesymposium.it](http://www.venicesymposium.it)

Please detach and mail to *Eurowaste Srl, Via Beato Pellegrino 23, 35137 Padova, Italy*

## REGISTRATION FORM (please typewrite or print)

Name and Title \_\_\_\_\_  
 Organisation \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Town \_\_\_\_\_  
 Zip Code \_\_\_\_\_  
 Country \_\_\_\_\_  
 Tel \_\_\_\_\_  
 Fax \_\_\_\_\_  
 e-mail \_\_\_\_\_  
 VAT n. \_\_\_\_\_  
 Date \_\_\_\_\_

**EARLY BIRD DELEGATE REGISTRATION  
 BEFORE JUNE 20<sup>th</sup>**  
*(please return an original copy of this form)*

**Early Bird Fee: € 800 + VAT 20%**

## Fee should be paid by Bank draft to:

EuroWaste srl, Account n° 641969 CAB 12120 ABI 02008  
 Swift: UNCRITB1QUO  
 IBAN: IT27M0200812120000000641969  
 Unicredit Bank, Piazza Cavour, Padova, Italy

Signature \_\_\_\_\_



**SYMPOSIUM STRUCTURE**

General Sessions (A & B)  
Special Sessions and Workshop (C & D)

Monday morning	OPENING SESSION			
	General Sessions		Specialised Sessions & Workshops	
Monday afternoon	A1: Incineration optimisation	B1: Biodiesel	C1: Anaerobic digestion - Processes and optimisation	D1: Energy recovery from sludge
	A2: Incineration & co-incineration	B2: Biofuels	C2: Anaerobic digestion - New applications	D2: RDF optimization
Tuesday morning	A3: Anaerobic digestion of biowaste	B3: RDF - Quality and production	C3: Bioethanol I	D3: Energy recovery from incineration
	A4: Anaerobic digestion- Dry and semi dry processes	B4: RDF - Utilisation	C4: Evaluation tools & decisional support	D4: Pyrolysis & gasification
Tuesday afternoon	A5: Conversion technology	B5: Biomass to energy I	C5: Anaerobic digestion- Analysis and monitoring	D5: Anaerobic digestion of special waste
	A6: Gasification	B6: Biomass to energy II	C6: Anaerobic digestion- Modelling and gas cleaning	D6: Bioethanol II
Wednesday morning	A7: LCA & Decisions tool I	B7: Treatment of gaseous emissions	C7: Biological hydrogen production I	Italian Workshop "Agroenergie"
	A8: LCA & Decisions tool II	B8: Solid thermal treatment residues	C8: Biological hydrogen production II	
Wednesday afternoon	A9: Public acceptance	B9: Incineration of special waste	C9: Developing countries	D9: Pretreatment prior to anaerobic digestion
	A10: HEALTH EFFECTS FROM THERMAL TREATMENTS			
Thursday	TECHNICAL TOURS			

# PRESENTATION

---

The production of energy from alternative sources and its impact on climate change are among the main strategic tools implicated in the sustainable development of our society.

Accordingly, numerous types of biomass and wastes contribute towards the production of energy and reduction in the use of fossil fuels by means of biological, chemical and thermal processes. Further to the above, in modern integrated waste management scenarios the waste-to-energy process allows the cycle to be closed. Existing biomass and waste-to-energy technologies are currently undergoing rapid development: processes are being optimised and new ideas for technical application proposed. Despite the growing interest in the use of these technologies, in many countries their implementation remains limited, chiefly due to reasons other than those of a technical and economical nature (i.e. scarce public acceptance, negative past experiences, insufficient knowledge, to mention but a few).

The aim of the Venice 2008 Symposium is to focus on the advances made in the application of technologies for energy recovery from biomass and waste and to encourage discussion on relevant aspects such as:

- *reliability of processes and technologies,*
- *full scale applicability of new processes,*
- *technical and economical optimisation,*
- *improvement of energy balance,*
- *environmental impact and potential health effects,*
- *information and education,*
- *selection of the appropriate process for the specific situation,*
- *adaptation of technologies to different geographical and cultural situations.*

The programme of the Symposium will last four days (three days of scientific sessions and one day for technical tours) and will include oral sessions, a poster session and a small exhibition by companies working in the field.

The Symposium is organised by IWWG and the Universities of Dresden, Hamburg and Padua. IWWG (International Waste Working Group, [www.iwwg.eu](http://www.iwwg.eu)) is a registered not-for-profit organisation aiming to provide an intellectual platform to encourage and support integrated and sustainable waste management and to promote practical scientific development in the field. The group was conceived in 2002 as a think tank, whose work would be based on scientific principles oriented towards practical application. The IWWG is structured in such a way as to allow it to focus on a range of subjects, to react promptly to problems in the field, and to communicate efficiently within the professional community. The official journal of IWWG, Waste Management, published by Elsevier, has the highest impact factor in the field. Among the activities of IWWG is the organisation of Sardinia Symposium (further information on the website [www.sardiniasymposium.it](http://www.sardiniasymposium.it)), in cooperation with the Universities of Hamburg and Padua.

# SYMPOSIUM THEMES

---

The Symposium will last four days and will include the following topics:

**A. Biomass and waste characterisation as a potential energy source**

Municipal waste, Agricultural waste, Hazardous waste, Clinical waste, Exhausted oil, Scrap tyres, Shredded car light fractions (“car fluff”), etc., Analytical and monitoring parameters.

**B. Renewable fuel (Biodiesel, Bioethanol, Gas liquification, Hydrogen)**

Production processes, Quality, Technologies, Handling and Storage.

**C. Anaerobic digestion**

Appropriate technologies for different organic substrates, Processes, Operation, Residues, Gas cleaning and Quality upgrading, Gas utilisation, Handling and treatment of residues (digestate, wastewater), Analytical and monitoring parameters.

**D. RDF**

Characterisation and Quality, Handling and Storage, Utilisation, Co-incineration, Residues from RDF incineration.

**E. Thermal treatment (Incineration, Pyrolysis, Gasification and Others)**

Processes, Energy balance, Technologies, Efficiency, Upgrading of existing plants, Corrosion and Operation problems, Gas cleaning.

**F. Economic aspects**

Capital and Operational costs, Revenues, Financing, Global substrates, Trading and Social effects.

**G. Decision tools**

LCA, Risk assessment, Environmental impact assessment, Sustainability achievement.

**H. Policies and Legal aspects**

Regional, National and International approaches, EU Strategies and Directives, Legal responsibilities, Perspectives in developing countries.

**I. Climate change and Sink**

CO<sub>2</sub> credits, Carbon balance, Reduction of GHG emissions, Energy saving, etc.

**J. Public acceptance**

Information campaigns, Toxicity, Health issues, Epidemiological studies, Emission effects, Mediation and Consensus.

## **K. Industrial experiences and new developments**

Case studies, Pilot plants, R&D projects.

## **L. Developing Countries**

Adaptation of technologies, Specific developments, Political and Financial perspectives.

# **INTERNATIONAL SCIENTIFIC COMMITTEE**

---

- *Bernd Bilitewski*, **Technical University of Dresden (DE)**
- *Antonio Branco*, **Impresa General do Fomento, Lisbon (IT)**
- *Raffaello Cossu*, **University of Padua (IT)**
- *Luis F. Diaz*, **CalRecovery Inc. (US)**
- *Roberto Fanelli*, **Istituto Mario Negri (IT)**
- *Martin Faulstich*, **Technical University of Munich (DE)**
- *Mikhail Fedorov*, **St. Petersburg State Technical University (RU)**
- *Evangelos Gidarakos*, **Technical University of Crete (GR)**
- *Michele Giugliano*, **Technical University of Milan (IT)**
- *Dagmar Juchelkova*, **Technical University of Ostrava (CZ)**
- *Avraam Karagiannidis*, **Aristotle University of Thessaloniki (GR)**
- *Martin Kranert*, **Technical of Stuttgart (DE)**
- *Peter Lechner*, **Universitat fur Bodenkultur, Wien (AT)**
- *Karl E. Lorber*, **University of Leoben (AT)**
- *Stellan Marklund*, **University of Umea (SE)**
- *Toshihiko Matsuto*, **Hokkaido University (JP)**
- *Rainer Stegmann*, **Hamburg University of Technology (DE)**
- *Kit Strange*, **Resource Recovery Forum (UK)**
- *Giordano Urbini*, **University of Insubria (IT)**
- *Hans van der Sloot*, **Netherlands Energy Research Foundation (NL)**
- *Peter Weiland*, **Federal Agricultural Research Center, Braunschweig (DE)**





## 12 FUTURE MEETINGS OF THE RESOURCE RECOVERY COMMITTEE

The next meeting of the Resource Recovery Committee will be held on **Thursday, 7 August 2008** at the EMRC Administration Office, 1<sup>st</sup> Floor, Ascot Place, 226 Great Eastern Highway, Belmont WA 6104 commencing at 5.00pm.

### Future Meetings 2008

Thursday	7 August	at	EMRC Administration Office
Thursday	4 September (if required)	at	EMRC Administration Office
Thursday	9 October	at	EMRC Administration Office
Thursday	20 November (if required)	at	EMRC Administration Office

## 13 DECLARATION OF CLOSURE OF MEETING

There being no further business, the Chairman closed the meeting at 6.28pm.

---