

# SCCG Alternative Energy for Coastal Cities Forum

## Final Report June 2009

SYDNEY COASTAL COUNCILS GROUP INC.



COUNCILS CARING FOR THE COASTAL ENVIRONMENT

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## Table of Contents

Page No:	
<b>Section 1</b> Aims, Methodology and Discoveries	
<b>1. Introduction</b>	<b>4</b>
<b>2. Overview of Forum Proceedings</b>	<b>4</b>
<b>3. Forum Presentations</b>	<b>5</b>
<b>4. Workshop Findings</b>	<b>6</b>
<b>5. Attendance</b>	<b>10</b>
<b>6. Event Synopsis</b>	<b>11</b>
<b>7. Acknowledgments</b>	<b>11</b>
<b>8. Conclusion</b>	<b>11</b>
<b>Section 2</b> Appendices	
<b>Appendix 1</b> <b>Event Presentations</b>	<b>12</b>
Individual presentations from the forum are available for download from the SCCG Website <a href="http://www.sydneycoastalcouncils.com.au/AAECC.htm">www.sydneycoastalcouncils.com.au/AAECC.htm</a>	
<b>Appendix 2</b> <b>Event Assessment</b>	<b>13</b>
<b>Appendix 3</b> <b>Evaluation Form</b>	<b>15</b>
<b>Appendix 4</b> <b>Workshop Data Capture Sheet</b>	<b>17</b>
<b>Appendix 5</b> <b>Invitation/Registration</b>	<b>18</b>



## Section 1 Aims, Methodology and Discoveries

### 1. Introduction

Renewable energy generation and energy efficiency technologies are an integral part of the world's strategy to pursue a low carbon emissions condition. There is a great opportunity for the Sydney Coastal Councils Group (SCCG) Member Councils to take the region forward into the future and support renewable energy initiatives. Apart from the initial low carbon impacts, investing in the renewable energy industry has many additional benefits including assisting the development of this relatively new industry and increasing the ease for local communities to utilise these emerging technologies.

New South Wales (NSW) Councils and their communities have access already to a wide range of funding and technical resources provided by the NSW and Australian Governments. These initiatives are aimed at assisting all stakeholders identify and implement energy saving strategies and actions. They include:

- NSW Energy Savings Scheme  
[http://www.dwe.nsw.gov.au/energy/sustain\\_renew\\_neet.shtml](http://www.dwe.nsw.gov.au/energy/sustain_renew_neet.shtml)
- NSW Residential Rebate Program  
<http://www.environment.nsw.gov.au/rebates/>
- Australian Government Green Loans Program  
<http://www.environment.gov.au/greenloans/>

Traditionally these types of programs and activities have focused on improving energy efficiency and reducing overall demand. A number of SCCG Member Councils have identified that considering alternative energy generation would also assist in addressing issues of demand management and their complimentary environmental impacts.

At the 2008 SCCG Annual General Meeting it was noted by delegates that a range of alternative energy technologies, including those from solar, wind, wave and tidal, were being developed and could potentially be utilised by coastal communities. It was therefore resolved that the SCCG convene an "Alternative Energy For Coastal Cities Forum" focussing on the following:

- Alternative energy technologies (i.e. wind, tide, wave and solar);
- Applications and their limitations;
- Energy reduction, co-generation and tri-generation technologies;
- Residential and commercial applications; and
- 'Off the shelf' – ready to use energy efficiency applications.

### 2. Overview of Forum Proceedings

The Forum held on the 27 May 2009, showcased existing innovations in energy efficiency design and technologies, renewable energy production and various related development and planning issues for Councils. The content packed proceedings also included an opportunity to workshop specific Alternative Energy issues utilising the proven change agent method, Strategic Questioning (SQ) to directly address concerns of Council staff regarding a range of renewable energy inspired issues.



### 3. Forum Presentations

The forum gave Sydney Coastal Council Group Member Council delegates and other stakeholders the opportunity to hear from two distinguished keynote speakers.

[Dr Mark Diesendorf](#), Institute of Environmental Studies, University of New South Wales. Dr. Diesendorf provided an overview and discussion of sustainable energy issues and implications for the Sydney region including the most appropriate technologies and a multitude of policy needs and suggestions.

[Mr. Allan Jones](#), MBE , former chief of the London Climate Change Agency. Mr. Jones detailed the benefits of a decentralised energy supply system. Using a case study from the township of Woking in the United Kingdom, the presentation showcased tri-generation, co-generation, solar energy and the use of hydrogen fuel-cell technology as a diverse model of supplying and maintaining energy to a city.

Other presenters and presentation topics included:

[Mr. Michael Ambrose](#), Energy Efficiency Expert, CSIRO- CSIRO:  
**Zero emission homes project and general house energy efficiency, energy management and decentralised generation**

[Mr. Stephen Berry](#), Director, Department of Water and Energy:  
**Green Loans Program Overview: Details and Opportunities**

[Dr. Tim Finnigan](#), Chief Executive Officer. BioPower Systems Pty. Ltd:  
**BioPower: Biologically inspired Ocean Power Systems**

[Mr. Ragnar Haabjoern](#), Capacity Building Officer, Sydney Coastal Councils Group:  
**Global Energy Issues**

[Ms. Mary Hendriks](#), Alternative Technology Association:  
**An Overview of Sustainable Technology**

[Mr. Yianni Mentis](#), Manager, Strategy and Analysis, Department of Environment and Climate Change:  
**NSW Government Initiatives in Energy Efficiency**

[Mr. Matt Perry](#), Partner, Strategic sustainability communications consultancy, Republic of Everyone:  
**From saving whales to selling chairs. How a smart creative idea can engage your audience and deliver a powerful message**

[Mr. Robert Smith](#), EnergyAustralia:  
**Energy Efficiency Opportunities and Targets for Sydney**

[Mr. Guy Watson](#), Global Edge Consulting:  
**Wind Energy: Feasibility and Planning Implications**

[Dr. Warren Yates](#), Councillor, Mosman Council:  
**Bega Solar Project - A Case Study**

Individual presentations from the forum are available for download from the SCCG Website @  
<http://www.sydneycoastalcouncils.com.au/AAECC.htm>



## 4. Workshop Findings

The forum gave SCCG Member Councils and other stakeholders an opportunity to synthesise information presented at the forum and address particular issues of interest regarding the various forum topics. The workshop engaged delegates to answer questions derived from the proven change agent mechanism Strategic Questioning (SQ) and recording them on the worksheet provided (Fig 1).

*SQ is the skill of asking dynamic questions to assist in inspiring positive change. It is a tool for giving service to any issue, as it assists individuals to discover their own strategies and ideas for change. SQ was selected as a strategy for overcoming various obstacles and in particular the issues associated with the follow through to completion of a project. As SQ taps into individual concerns, it endeavours to increase the likelihood of actions undertaken by the individual to be completed.*

The Five questions and their question level were:

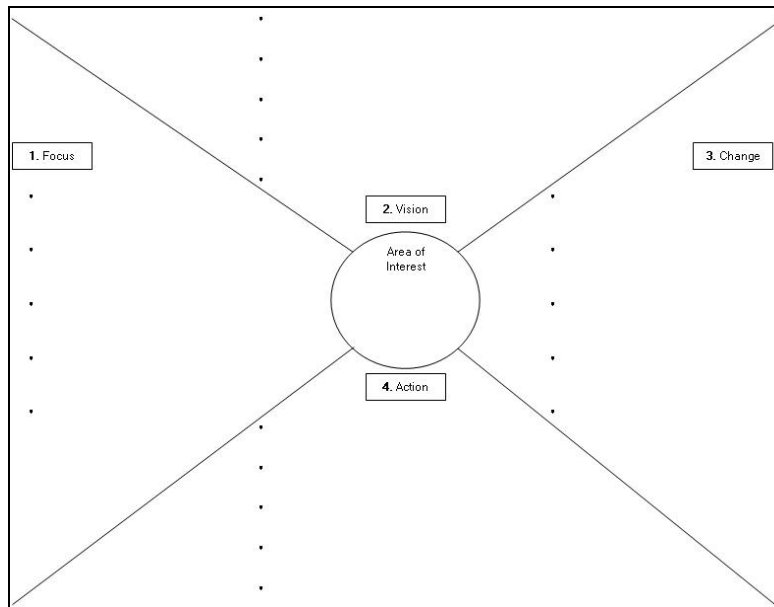
Area of Interest:           **What issue resonates with you more? (I.e. wind, tide, wave, solar)**

Focus:                       **What are you concerned about?**

Vision:                      **How would you like it to be?**

Change:                    **What needs to change?**

Action:                     **What are you prepared to do?**



(Fig 1)  
Example of worksheet used for Alternative Energy for Coastal Cities Workshop



## 4. Workshop Findings (Continued)

The Table (Table1) p.8 and p.9 shows a summary of the issues and items that arose via the strategic questioning activity. A critique of the workshop findings shows a wide range of areas of interests and concerns raised by the attending delegates. This is an indication that even by providing a myriad of diverse and quality presentations, there are still many more opportunities available for additional information sessions regarding renewable energy and efficiency technologies.

The workshop identified a number of issues and actions that would assist all stakeholders understand and implement renewable energy projects. These can be summarised in the following groups:

- **Information:** A need for information on the various types of technologies and how they can be applied.
- **Economic assessment:** Financial information articulating the improvement in efficiency and payback periods of renewable energy projects.
- **Community Engagement strategies:** Consistent strategies delivered by all spheres of Government that actively inform and engage broad sections of the community on the needs and opportunities for renewable energy projects.
- **Greater collaboration amongst all stakeholders:** Partnerships that ensure renewable energy projects messages, programs and assessments are delivered by all stakeholders in a consistent manner. Therefore identifying areas of overlap or gaps for future work.
- **Better Governance and approval process:** A clearer process for the approval and construction of renewable energy projects.

An additional recurrent theme from the responses was in regards to communication. The specific communication issues raised included:

- Sourcing and implementing optimal strategies to communicate efficiently and effectively with community
- Creating and coordinating dialogue between all three tiers of Government and community on renewable energy and energy efficiency opportunities.



## 4. Workshop Findings (Continued)

Table 1 – Strategic questioning responses

<p><b>Area of Interest:</b> What issue resonates with you most?</p>	<ul style="list-style-type: none"> <li>• Building Design</li> <li>• Dependence on energy generated from fossil fuel</li> <li>• Distributed Energy</li> <li>• Energy Efficiency</li> <li>• Renewable Energy</li> <li>• Residential Retrofitting</li> <li>• Sustainable Living</li> <li>• Sustainable Residential housing/precinct Development.</li> <li>• Survival of Humanity</li> <li>• Transport</li> <li>• Uptake of Residential Solar PV</li> <li>• Urban Scale Wind Power</li> <li>• Bushland Protection</li> </ul>
<p><b>Focus:</b> What are you concerned about?</p>	<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Supply issues: What are the best technologies available and how can they be sourced?</li> <li>• Design and planning considerations: What issues will face Councils and communities as these technologies are embraced more widely and are being installed throughout municipalities?</li> </ul> <p><b>Economic:</b></p> <ul style="list-style-type: none"> <li>• Investment/Financial issues of renewable energy development and implementation</li> </ul> <p><b>Lifestyle:</b></p> <ul style="list-style-type: none"> <li>• How to effectively engage community who would like to take part in renewable energy generation?</li> </ul> <p><b>Strategy:</b></p> <ul style="list-style-type: none"> <li>• How to coordinate between all tiers of Government to communicate with similar messages and directions regarding renewable energy?</li> </ul> <p><b>Knowledge Transfer:</b></p> <ul style="list-style-type: none"> <li>• How to inform community of the best technologies?</li> </ul>
<p><b>Vision:</b> How would you like it to be?</p>	<p><b>Housing:</b></p> <ul style="list-style-type: none"> <li>• High efficiency design the norm (8 Star and Beyond)</li> <li>• Minimal planning process disruptions (Installation and take up is easy for communities with minimal barriers and consistent policies)</li> <li>• Domestic power generation: Urban areas are part of a decentralised energy supply for the city</li> <li>• Quality auditing standards and useful in-depth data: Consistency and quality in data gathered to assist future directions and planning developments.</li> </ul> <p><b>Collaboration:</b></p> <ul style="list-style-type: none"> <li>• Helpful dialogue between Council-Community and the three tiers of Government of what is the best technology and strategy to assist energy supply issues for the present and future</li> </ul> <p><b>Energy:</b></p> <ul style="list-style-type: none"> <li>• Development of a Decentralised Energy Supply System that utilises renewable energy technologies</li> </ul>





## 4. Workshop Findings (Continued)

Table 1(Continued) – Strategic questioning responses

<p><b>Change:</b> What needs to change?</p>	<p><b>Lifestyle:</b></p> <ul style="list-style-type: none"> <li>• More effective communication strategies for community engagement on renewable energy issues</li> <li>• Advancement of individual and organisational Values/Mindsets/Behaviours towards addressing sustainability issues</li> </ul> <p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Ease of retrofitting for all types of existing residential housing</li> <li>• New Technologies need to be developed and implemented in a more consistent and straightforward manner</li> </ul> <p><b>Governance:</b></p> <ul style="list-style-type: none"> <li>• Renewable Energy Policy must be developed</li> <li>• The NSW State Government has a major role to play with the development of a renewable energy industry and uptake of energy efficiency technologies</li> </ul> <p><b>Economic:</b></p> <ul style="list-style-type: none"> <li>• Funding needs to be increased for investment into renewable energy technology development and implementation</li> </ul> <p><b>Knowledge Transfer:</b></p> <ul style="list-style-type: none"> <li>• An increase of Case Study Analysis of renewable energy feasibility and implementation</li> </ul>
<p><b>Action:</b> What are you prepared to do?</p>	<p><b>Strategic:</b></p> <ul style="list-style-type: none"> <li>• Lobbying to all tiers of government for a consistent and coordinated approach for the addressing of energy supply issues for the region</li> <li>• Development of a long term strategy to address Sydney’s supply and demand issues</li> <li>• Communication Strategies: Research best practice marketing strategies to engage the community more effectively and efficiently</li> <li>• Connect with Business to form opportunities of renewable energy development</li> <li>• Create a coordinated response for promotion of renewable energy and energy efficiency</li> </ul> <p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>• Create a community of Council Staff to research and report on various renewable energy case studies</li> <li>• Assist knowledge transfer across all areas of Council of energy issues and needs</li> </ul> <p><b>Personal:</b></p> <ul style="list-style-type: none"> <li>• Lifestyle Changes focused on lowering ecological footprints</li> <li>• Lobby NSW State Government to assist with development of a renewable energy industry and uptake of energy efficiency technologies</li> </ul>



## 5. Attendance

SCCG Member Councils were offered first preference to attend this event and took advantage of this offer with great enthusiasm. Many other Stakeholders from various Organisations, State Agencies, Industry partners and Academic institutions also attended the event. The list below details a snapshot of the wide ranging audience that this forum appealed to.

<ul style="list-style-type: none"> <li>• Sustainability Team leader</li> <li>• Senior Sustainability Programs coordinator</li> <li>• Councilor</li> <li>• Mayor</li> <li>• General Manager</li> <li>• Sustainable Building Officer</li> <li>• Sustainability Project Coordinator</li> <li>• Honorary Member</li> <li>• Environmental Strategist</li> <li>• Senior Environment Projects Officer</li> <li>• Manager Environmental Sustainability and Health</li> <li>• Environmental Education Officer</li> <li>• Emissions Reduction team, Climate Change Air and Noise Branch</li> </ul>	<ul style="list-style-type: none"> <li>• Executive Officer</li> <li>• Senior Coastal Projects Officer</li> <li>• Capacity Building Officer</li> <li>• Renewable Energy Engineer</li> <li>• Sustainability Educator/Environmental Scientist</li> <li>• Senior Sustainability Officer</li> <li>• Environmental Sustainability Officer</li> <li>• Sustainability Programs Coordinator</li> <li>• Sustainability Team-Energy Efficiency</li> <li>• Senior Sustainability Planner</li> <li>• ESD Manager</li> <li>• Environmental Technical Officer</li> <li>• International Client Relations</li> <li>• Project Leader</li> </ul>	<ul style="list-style-type: none"> <li>• Waste Educator</li> <li>• Team Leader Environmental Education</li> <li>• Catchment Education Officer</li> <li>• Senior Lecturer in Energy, Fluids and Environment</li> <li>• Project Manager</li> <li>• Program Manager</li> <li>• Senior Executive Officer</li> <li>• Principal Analyst Eco-Efficiency</li> <li>• PhD Candidate- Beach Valuation Project</li> <li>• Energy Efficiency Expert</li> <li>• Senior Environmental Specialist</li> <li>• Deputy Mayor</li> <li>• Sustainability Officer</li> <li>• Deputy Chair IUCN Commission on Education and Communication</li> </ul>
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## 6. Event Synopsis

### Alternative Energy for Coastal Cities Opportunities

Ascertained from the workshop findings and additional dialogue from the forum, there was a definite calling for progressive and standardised information regarding the various renewable energy and energy efficiency technologies. This information needed to be easily accessed by the general public and also had to include levels of information required by and understood by all three tiers of government.

Mr. Allan Jones' presentation detailed decentralisation strategies for a sustainable low carbon future. It inspired remarks by workshop participants, that progress with addressing energy supply demands and issues should be sort through the pursuing of collaborations between the private and public sectors. Forum delegates conveyed much interest in gaining insight and building on from learnings the City of Sydney had ascertained through the consultation of Mr. Jones. Additionally, delegates indicated interest in receiving details of the report presented by Mr. Jones to the City of Sydney.

### Event Management

The formal and informal feedback suggested that the Alternative Energy for Coastal Cities Forum was a successful event on many levels. A design consideration communicated was that the agenda was very full. A rethink of the structure of the event's proceedings was also suggested. It was noted that the comfort break sections of the proceedings were sparking many important conversations and strategic networking opportunities. It will be a future endeavour of the SCCG Capacity Building Program to find a balance between content and interaction for future events.

## 7. Acknowledgments

The Sydney Coastal Councils Group would like to formally acknowledge and thank the sponsors and supporters of the Alternative Energy for Coastal Cities Forum. The principal sponsor of the event was EnergyAustralia providing financial assistance, energy efficiency promotional/educational materials and also an entertaining and informative presenter.

The Forum was also supported by the Energy Superstore. They provided two prizes as well as an energy efficiency information booth. The individual prize was an energy efficiency product pack. The Council prize was a solar powered street light to be installed in their municipality and was won by Waverley Council.

Many thanks go to the wonderful array of quality speakers that presented at the forum, without their efforts and expertise the forum would not have been as successful as it was.

## 8. Conclusion

Overall, the content packed forum delivered a plethora of renewable energy and energy efficiency ideas and issues for the forum delegates. The standard of presentation and quality of information presented was very high, which made for an entertaining and engrossing event for all.

The formal and informal conversations, the responses, the action plans and various completed forms, as a majority, suggested that there is still much work to be undertaken to understand and assist the energy supply and demand issues for the Sydney region and for the state of NSW in the carbon conscious economy.

The SCCG Capacity Building Program is looking forward to building on from the insights and outcomes from the experience of presenting the SCCG Alternative Energy for Coastal Cities Forum. It will continue to endeavour to provide an ongoing series of information sessions and workshops on emerging issues relevant to Member Councils and in a format and structure that suits Member Council staff and Councilors.



## Section 2: Appendices

### Appendix 1

#### Event Presentations

[Mr. Michael Ambrose](#), Energy Efficiency Expert, CSIRO- CSIRO:  
**Zero emission homes project and general house energy efficiency, energy management and decentralised generation**

[Mr. Stephen Berry](#), Director, Department of Water and Energy:  
**Green Loans Program Overview: Details and Opportunities**

[Dr. Mark Diesendorf](#), Institute of Environmental Studies, University of New South Wales.  
**Sustainable Energy: Implications for the Sydney Region**

[Dr. Tim Finnigan](#), Chief Executive Officer. BioPower Systems Pty. Ltd:  
**BioPower: Biologically Inspired Ocean Power Systems**

[Mr. Ragnar Haabjoern](#), Capacity Building Officer, Sydney Coastal Councils Group:  
**Global Energy Issues**

[Ms. Mary Hendriks](#), Alternative Technology Association:  
**An Overview of Sustainable Technology**

[Mr. Allan Jones](#), MBE, former chief of the London Climate Change Agency.  
**Moving Cities Towards a Sustainable Low Carbon Future**

[Mr. Yianni Mentis](#), Manager, Strategy and Analysis, Department of Environment and Climate Change:  
**NSW Government Initiatives in Energy Efficiency**

[Mr. Matt Perry](#), Partner, Strategic sustainability communications consultancy, Republic of Everyone:  
**From saving whales to selling chairs. How a smart creative idea can engage your audience and deliver a powerful message**

[Mr. Robert Smith](#), EnergyAustralia:  
**Energy Efficiency Opportunities and Targets for Sydney**

[Mr. Guy Watson](#), Global Edge Consulting:  
**Wind Energy: Feasibility and Planning Implications**

[Dr. Warren Yates](#), Councillor, Mosman Council:  
**Bega Solar Project - A Case Study**

Individual presentations from the forum are available by clicking the names that are hyperlinked or alternatively they can be accessed and downloaded from the SCCG Website

[www.sydneycostalcouncils.com.au/AAECC.htm](http://www.sydneycostalcouncils.com.au/AAECC.htm)



## Appendix 2

### Event Assessment

## Evaluation

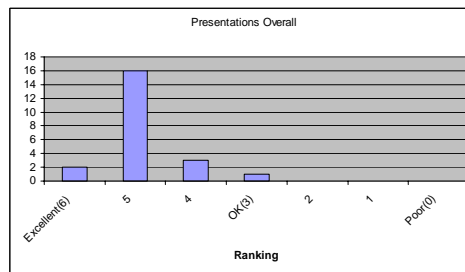
The following are the results from the individual Feedback forms delegates were asked to submit at the conclusion of the day's proceedings.

### Summary

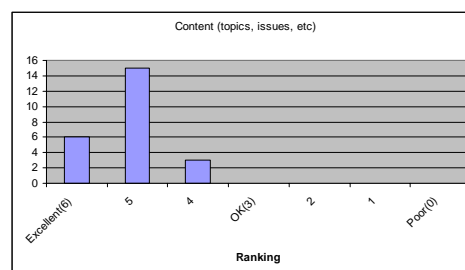
Delegates were asked to Rank on a Scale from (0) Poor through to (6) Excellent on a range of aspects of the forum's proceedings including:

Via the forum evaluation process, forum attendees noted that the quality of all presentations was very high and that the forum program provided an interesting mix of contemporary issues discussion, various alternative technologies and additionally the financial and implementation aspects for Councils to consider.

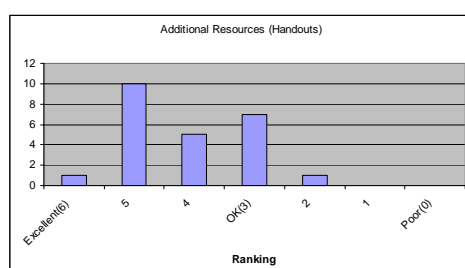
#### (a) Presentations Overall



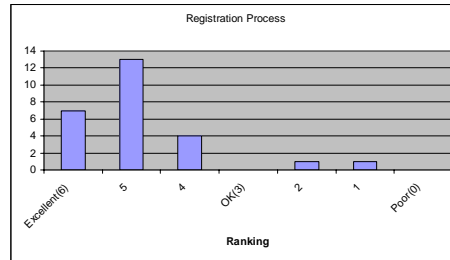
#### (b) Content



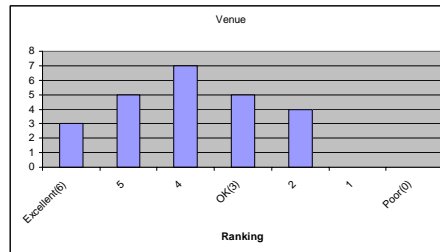
#### (c) Additional Resources



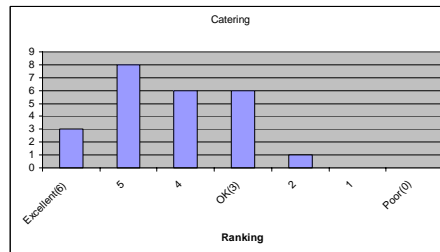
**(d) Registration Process**



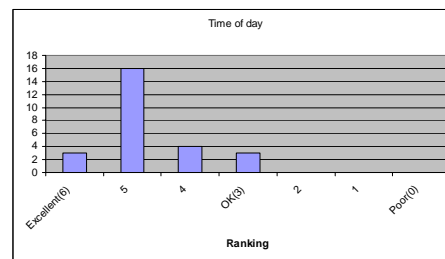
**(e) Venue**



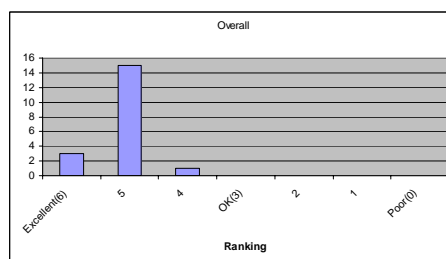
**(f) Catering**



**(g) Time of Day**



**(h) Overall**



## Appendix 3 Evaluation Form

### Alternative Energy for Coastal Cities Feedback Form

**Summary**  
(Please (✓) Tick The Most Appropriate Scale)

Ranking	Excellent	6	5	4	3	2	1	0	Poor
Item									
Convenor									
Presentations Overall									
Content (topics, issues, etc)									
Additional Resources (Handouts)									
Registration Process									
Venue									
Catering									
Time of day									
Overall									
Other									



Did the Forum meet your expectations? (Yes / No) Please circle. Why?

Was the content valuable to you and your organisation? (Yes / No) Please circle. Why?

Were there any additional topics you would like to have been covered? (Yes / No) Please circle. What?

Additional comments.

Evaluation Form (Continued)



**Presentation Reviews**

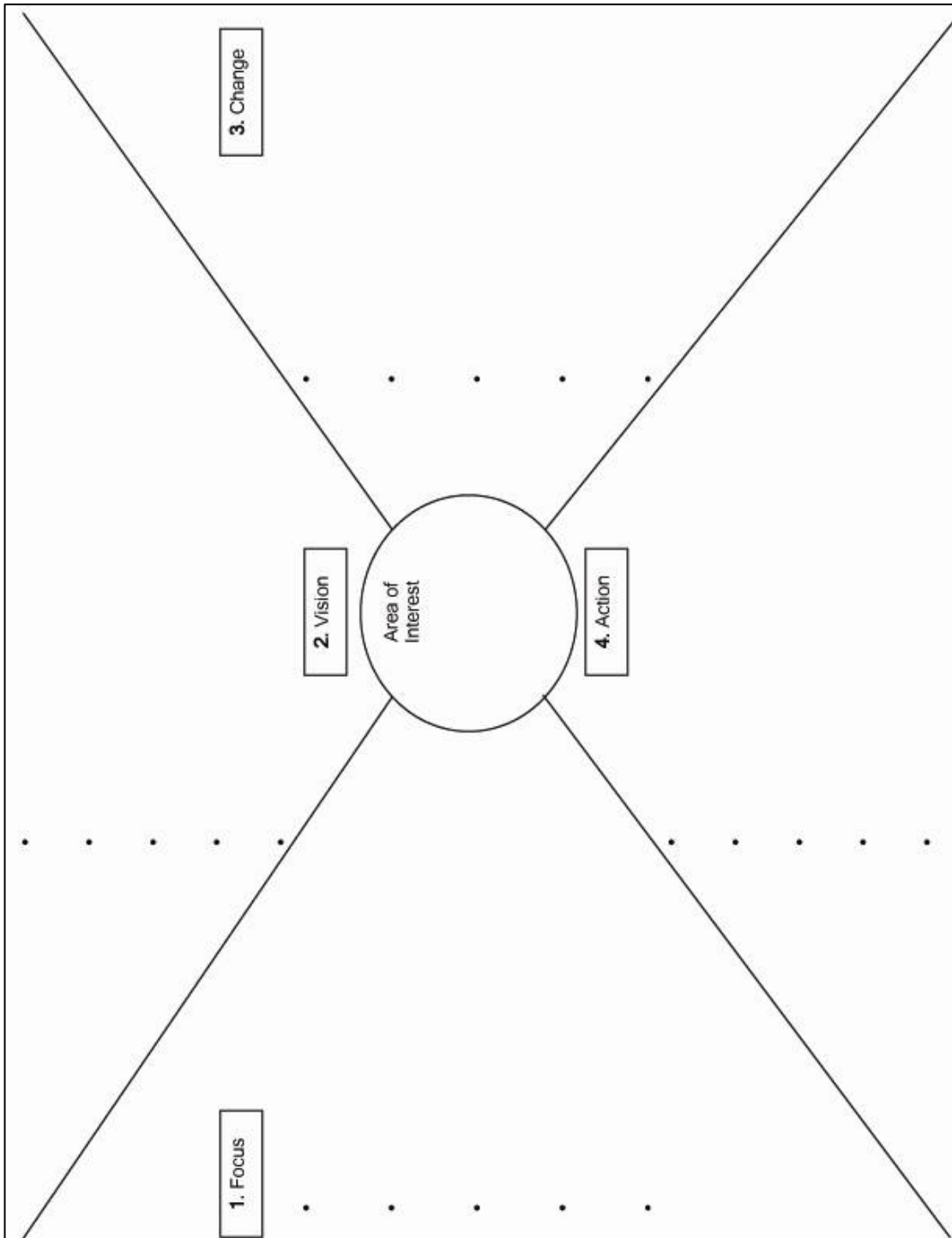
Ranking (Please ✓) Tick Selection	Great					OK					Poor	Additional Comment
	6	5	4	3	2	1	0					
Item												
Opening/Welcoming												
Energy, Watts the Issue? Ragner Haabypem												
Key Note Mark Diesendorf												
CSIRO: Zero Emission Homes Michael Ambrose												
Green Loans Stephen Berry												
Alternative Technology Association Mary Hendricks												
2 <sup>nd</sup> Key Note Climate Change Allan Jones												
Wind Energy Guy Watson												
BioPower Tim Finnigan												
From Saving Whales to Selling Chairs Matt Perry												
Bega Solar project Warren Yates												
NSW Energy Efficiency Ylanni Mantis												
EnergyAustralia Robert Smith												
Alternative Energy Workshop												
Other.												

Did you like this evaluation form? (Yes / No) Please circle. Are There Any Design Considerations?



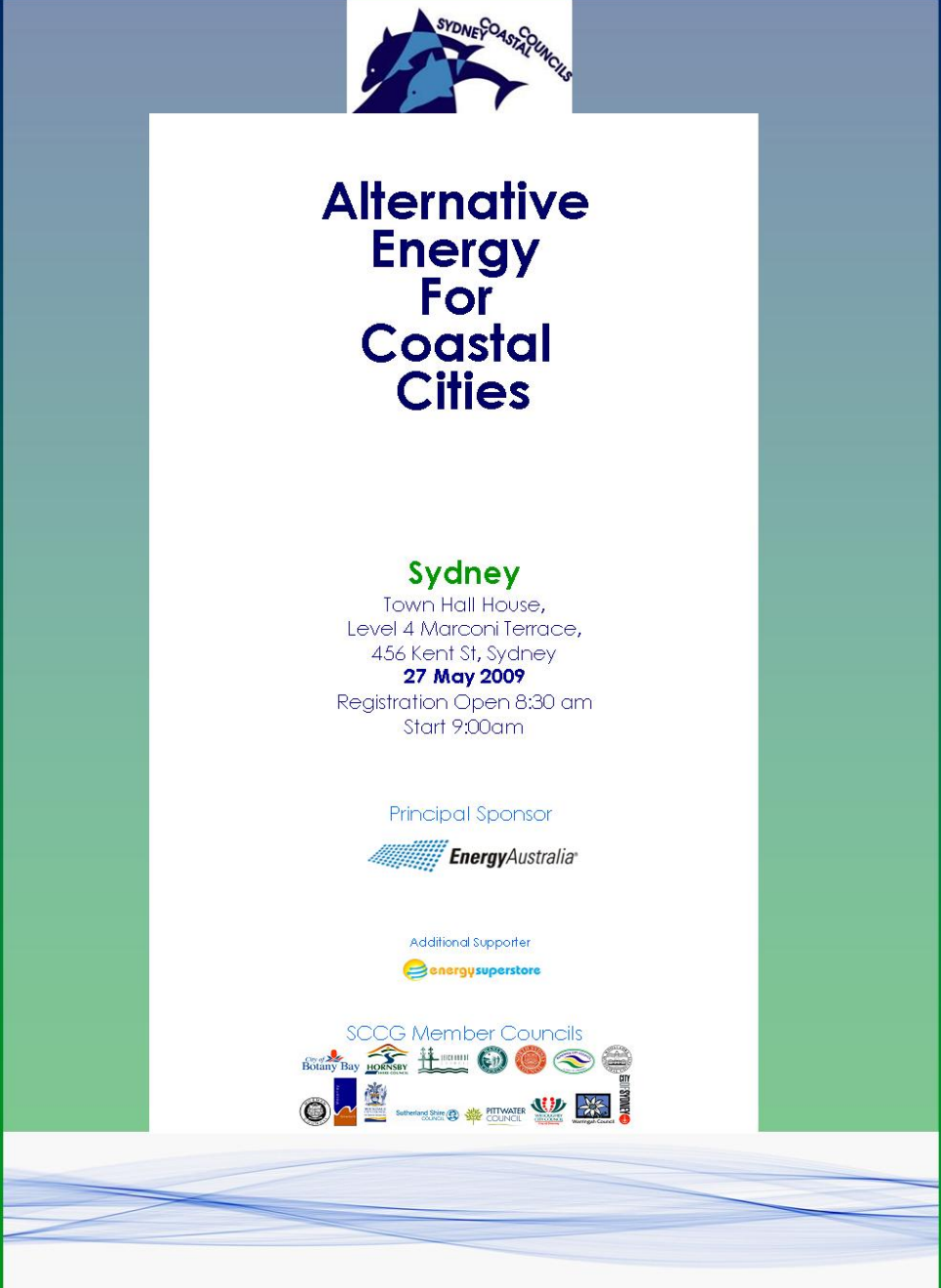
## Appendix 4


### Workshop Worksheet



## Appendix 5


### Invitation/Registration







# Alternative Energy For Coastal Cities

**Sydney**  
Town Hall House,  
Level 4 Marconi Terrace,  
456 Kent St, Sydney  
**27 May 2009**  
Registration Open 8:30 am  
Start 9:00am

Principal Sponsor  


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SCCG Member Councils  






The SCCG Capacity Building Program aims to discover, integrate and develop best practice thinking, learning and action for its Member Councils and relevant Stakeholders to be more effective and efficient with Coastal and Estuary NRM, Climate Change Responses and emerging Sustainable Development issues and needs by;

- Raising Awareness
- Transferring Information and knowledge
- Increasing Skills and Training
- Facilitating Coordination and Supporting Member Councils

#### General Information:

The Sydney Coastal Councils Group was established in 1989 to promote co-ordination between member councils on environmental and natural resource management issues relating to the sustainable management of the urban coastal environment.

The Group consists of 15 councils adjacent to Sydney marine and estuarine environments and associated waterways (Botany Bay, Hornsby, Leichhardt, Manly, Mosman, North Sydney, Pittwater, Randwick, Rookdale, Sutherland, City of Sydney, Warringah, Waverley, Willoughby and Woollahra). The Group represents over 1.3 million Sydneysiders. This area encompasses the waterways of Broken Bay; Pittwater; Port Jackson, the lower Lane Cove River, Middle and North Harbour; Botany Bay, the Lower Georges and Cooks River; and Port Hacking.



## Program

- 8:30 Meet at Level 1, Concierge Desk to gain access to Level 4
- 8:45 Registration open
- 9:00 **Welcome**  
Councillor Robert Kok, City of Sydney  
SCCG Chairperson, Cllr Wendy MacMurdo  
SCCG Executive Officer, Mr Geoff Withycombe
- 9:10 **Introductory Presentation: "Energy, Whats the Issue?"**  
Mr Ragnar Haabjoern: Capacity Building Officer, SCCG
- 9:20 **Key Note Address: Sustainable Energy and Its Implications For The Sydney Region**  
Dr. Mark Diesendorf: Deputy Director of Institute of Environmental Studies, UNSW
- 10:00 **CSIRO: Zero emission homes project and general house energy efficiency, energy management and decentralised generation.**  
Mr Michael Ambrose: Energy Efficiency Expert, CSIRO
- 10:20 **Green Loans Program Overview: Details and Opportunities**  
Mr Stephen Berry: Director, Department of Water and Energy
- 10:45 **An Overview of Sustainable Technology**  
Ms Mary Hendricks: Alternative Technology Association
- 11:10 Morning Tea
- 11:40 **Second Key Note Address: Climate Change and Renewable Energy Opportunities for the City of Sydney—A Case Study**  
Mr Allan Jones: Former Chief Executive of the London Climate Change Agency
- 12:20 **Wind Energy: Feasibility and Planning Implications**  
Mr Guy Watson: Global Edge Consulting
- 12:55 Lunch
- 1:30 **BioPower: Biologically Inspired Ocean Power Systems**  
Dr. Tim Finnigan: Chief Executive Officer, BioPower Systems Pty. Ltd
- 1:55 **From saving whales to selling chairs. How a smart creative idea can engage your audience and deliver a powerful message.**  
Mr Matt Perry: Strategic sustainability consultancy, Republic of Everyone
- 2:15 **Bega Solar Project—A Case Study**  
Cllr Warren Yates: Mosman Council & Clean Energy For Eternity
- 2:35 **NSW Government Initiatives in energy efficiency.**  
Mr Yianni Mentis: Manager, Strategy and Analysis, Department of Environment and Climate Change
- 2:55 **EnergyAustralia: Energy Efficiency Opportunities and Targets For Sydney**  
EnergyAustralia Representative
- 3:15 Afternoon Tea
- 3:40 **Alternative Energy for Coastal Cities Workshop**
- 4:10 Closing Remarks  
**Lucky Door Prize: Energy Efficiency Hamper Supplied by Energy Superstore**
- 4:20 Strategic Networking





## Presenters

**Mr Michael Ambrose: Energy Efficiency Expert, CSIRO**

Mr Ambrose joined CSIRO in 1992, and, following a break in 1994, returned to CSIRO a year later to concentrate on building related research. He modelled the environmental impact of buildings, with a particular interest in energy use and efficiency, and life cycle analysis of building materials. Investigating the life cycle cost implications of water infrastructure networks, he helped develop sophisticated modelling software. Michael Ambrose's research aims to implement and monitor energy efficiency measures in residential houses. Through CSIRO's Energy Transformed Flagship, Mr Ambrose is developing an Australian Zero Emission House (AusZEH).

**Dr. Mark Diesendorf: Deputy Director of Institute of Environmental Studies, UNSW**

Dr Diesendorf is Deputy Director of the Institute of Environmental Studies, UNSW. Previously he was a Principal Research Scientist at CSIRO and Professor of Environmental Science at UTS. He is author of *Greenhouse Solutions with Sustainable Energy* and a forthcoming book *Climate Action: A Campaign Manual for Greenhouse Solutions* (to be published in July).

**Dr. Tim Finnigan: Chief Executive Officer, BioPower Systems Pty. Ltd**

Dr Finnigan is the founder of BioPower Systems. He has been involved in ocean engineering for 17 years, the last nine of which have been focused on ocean power conversion. From 2000-2005 he was the Technical Director of Energetech Australia (now called Oceanlinx Ltd). Prior to this, Dr Finnigan was involved in research and technology commercialisation in both academic and industry positions in the US, Canada and Australia. He holds a Bachelor of Applied Science in Engineering Physics, a Masters degree in Environmental Fluid Mechanics, and a PhD in Marine Engineering.

**Mr Ragnar Haabjoem: Capacity Building Officer, SCCG**

Thus far in his career, Mr Ragnar Haabjoem has had a notable and extensive teaching and education journey. Starting out as a science teacher he found his passion was understanding and developing the human-nature connection. From this realisation he became a sustainability education officer in the private sector and also had a brief tenure as a lecturer of pre-service teachers. He turned his focus from teachers and teaching to change and action, Program coordinating for a not-for-profit Education for Sustainability provider. His vocational journey has seen him obtain postgraduate knowledge from a Masters in Science and Environmental Education, a Graduate Certificate in Sustainable Practice and presently he is a PhD Candidate at Macquarie University studying ecological philosophy.

**Ms Mary Hendricks: Alternative Technology Association**

Mary Hendricks is a volunteer committee member of the Sydney Central branch of the Alternative Technology Association (ATA). Mary is Director of Aussie Renewables and consults for GoBizGreen. In her professional capacity, she has a strong interest in promoting the understanding and use of renewable energy in Australia. As a volunteer, Mary helps organize events for ATA, for the NSW branch of ANZSES (Australia and New Zealand Solar Energy Society) and for the GreenBiz café group.







## Presenters

**Mr Allan Jones: Former Chief Executive of the London Climate Change Agency**

Allan is an energy and climate change consultant and has over 30 years experience in local and regional government in the housing, property, building services, energy, water, waste, transport and climate change sectors. Allan is currently working for the City of Sydney, Australia on a number of energy and climate change projects and advising on the delivery of the climate change targets in Sustainable Sydney 2030, in particular on green transformers or trigeneration and other green infrastructure.

**Mr Matt Perry: Strategic sustainability consultancy, Republic of Everyone**

Matt started his career at M&C Saatchi in London and NYC working on brands including British Airways, Rolls-Royce, and Lastminute.com. He then moved to Australia via South and Central America where he was woken up to the environmental crisis. In Australia, he established a sustainable forestry business on dis-used cane farmland on the Sunshine Coast, became the Managing Director of bellamyhayden Melbourne and studied at the Centre for Sustainable Leadership. Last year he co-founded a completely new kind of agency called Republic of Everyone that is focused on making sustainability relevant, interesting, and engaging. They work with clients such as Sony, Living Edge, Cancer Council, IFAW, Landcare and Carbon Planet.

**Mr Guy Watson: Global Edge Consulting**

Guy Watson trained as an architect, and after several years in the architectural profession, began to focus on delivering projects from a project management rather than design perspective. An interest in global issues that stretched beyond the realm of architecture led to a Masters in International Relations, and a involvement in a broad range of projects including marine science, aquaculture, overseas development and more recently renewable energy. Guy's business, Global Edge Project Consulting works in a number of areas bringing together these interests including the development of emerging technologies, the CDM market, and research and analysis of the growing renewable energy generation market worldwide.

**Dr Warren Yates: Councillor, Mosman Council**

Dr Warren Yates is an Emeritus Professor of Electrical Engineering at UTS. Since retiring from his academic post he has been active in grassroots action to address climate change and was a founding member of the Mosman Chapter of Clean Energy for Eternity. For the last 12 months he has been working with other CEFE members on a feasibility study for a solar farm in Bega. He was elected a Councillor on Mosman Council last September





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