

SSEE Climate Code Red – Themes for Action Summary report of 2009 National Workshop Series

Overview of project

Climate Code Red workshops were held in each of the following cities, on these dates, with approximate attendance shown. Refer Appendix C for an example invitation and agenda.

City	Date	Approximate attendance
Perth	13 th August 2009	40
Brisbane	5 th October 2009	45
Newcastle	14 th October 2009	75
Adelaide	15 th October 2009	35

Outcomes from each workshop

Tangible

Each workshop yielded a small number of key opportunities. These were reported on in the outputs for each session along with specific recommendations for action suggested for those opportunities. The outcomes have served as inputs into the identification of key themes outlined below.

Intangible

Indirect outcomes include the following

- high levels of engagement amongst local constituencies
- new relationships and networks formed across disciplines and between existing interest groups
- reinforcement of the high levels of passion, commitment and concern felt amongst SSEE communities for Sustainability and Climate Change

Key Themes – outcomes from all workshops

The opportunities from each workshop were sorted and clustered and 5 key themes found.

Refer Appendix A for groupings.

Some of the significant or recurring actions within each theme are listed on the following page

1. **Energy production and distribution**

- *Drive research and support a shift from coal powered to renewable energy generation and more efficient infrastructure*

2. **Resource and Material Design and Lifecycle**

- *Support industry with design of new materials, and re-engineer the lifecycle of materials and resources for greater efficiencies and reduced cost and waste*

3. **Urban infrastructure**

- *Improve urban transport, building and infrastructure design & standards to support energy efficient living in our cities*

4. **Regulatory and price controls**

- *Lobby and support Government lead regulatory and pricing mechanisms that limit carbon use*

5. **Community awareness and engagement**

- *Facilitate education and awareness raising in the community to prompt urgent action for change, both to reduce carbon usage and also to engender sustainable values*

Using these Themes

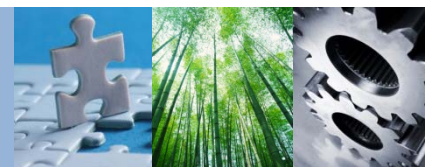
The author of this report has suggested the theme names. More appropriate labels might be chosen.

The themes may serve as the basis for a high level strategic framework for SSEE.

In addition, or alternatively, they may be translated into specific projects with deliverables, resources and time frames allocated.

Themes 1, 2 & 3 have a content orientation, namely 'What' SSEE might create, produce or enable

Themes 4 & 5 are method or process oriented, namely 'How' SSEE might support change



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With limited resources, SSEE may choose to prioritise these, and focus more attention on one or more. Alternatively, SSEE may identify short-term deliverables for each, whilst establishing and planning to achieve longer term goals.

Next steps

The workshop to be held at the SSEE National Conference on Tuesday, 24th November will enable SSEE representatives to confirm the Key Themes, identify how they wish to use these in moving forward, and seeking commitment and accountability by representatives to move these forward.

Example Actions within each theme

The actions suggested below are drawn from the range of actions put forth at workshops. Refer Appendix B for full list of Recommendations/ Actions by theme.

1. Energy production and distribution

- Drive research and support a shift from coal powered to renewable energy generation and more efficient infrastructure

- 1.1 Support design and investment of renewable energy generation projects
- 1.2 Support bans on all new coal powered plants
- 1.3 Design or advise on grid and generation infrastructure; co-generation, distributed gen.
- 1.4 Develop Engineer's professional skills, standards, qualifications & knowledge sharing regarding energy

2. Resource and Material Design and Lifecycle

- Support industry with design of new materials, and re-engineer the lifecycle of materials and resources for greater efficiencies and reduced cost and waste

- 2.1 Embed 'cradle to cradle' lifecycle management principles
- 2.2 Refer #1 - develop an SSEE position and lobby for regulation and standards
- 2.3 Encourage innovation; Eg. Design of new materials, waste disposal, industry research
- 2.4

3. Urban infrastructure

- Improve urban transport, building and infrastructure design & standards to support energy efficient living in our cities

- 3.1 Support urban infrastructure planning & design
- 3.2 Facilitate professional development, knowledge sharing and best practice
- 3.3 Develop or support 10 Star building standards
- 3.4 Design low/ zero emissions vehicles

4. Regulatory and price controls

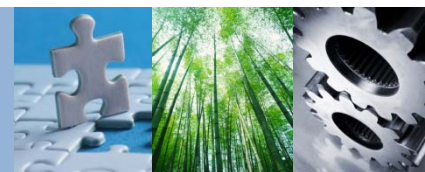
- Lobby and support Government lead regulatory and pricing mechanisms that limit carbon use

- 4.1 Develop an SSEE position re regulation for long term, significant carbon reduction
- 4.2 Measure real costs of carbon pollution; develop economic models & incentives/ penalties
- 4.3 Lobby Government &/or name & shame industry
- 4.4 Develop a carbon 'ration card' system

5. Community awareness and engagement

- Facilitate education and awareness raising in the community to prompt urgent action for change, both to reduce carbon usage and also to engender sustainable values

- 5.1 Research and provide 'truth' and facts about carbon
- 5.2 Support labelling of 'whole of life' costs of goods
- 5.3 Facilitate community education and communication, particularly with children
- 5.4 Foster and advocate sustainable values, lifestyle and reduced consumption



Role & influence of SSEE

Actions & recommendations at the workshops were sought for 4 groups of constituents;

- Engineering profession
- Industry
- Government
- Community & Households

When actions were sorted by these categories and not themes, interesting recurring references and ideas were noticed.

SSEE may wish to consider how it defines its role and the ways it works to guide and influence these constituents.

A. Engineering Profession

- This group can be most directly influenced by SSEE, through Engineers Australia
- This process has highlighted the extent of interest in Sustainability issues amongst the profession, and heightens the recognition of the pivotal role Engineers play in developing Sustainability and climate change solutions
- Key ideas expressed include;
 - i. Development of professional skills, standards and qualification building
 - ii. Provision of data, models, tools and frameworks to help educate and inform other groups
 - iii. The key role in design – of new systems, infrastructure, materials, etc
 - iv. Opportunities for increased sharing of professional best practice across practice areas, industries, regions and countries
 - v. Increase in lobbying and vocal support for change by the profession

B. Industry

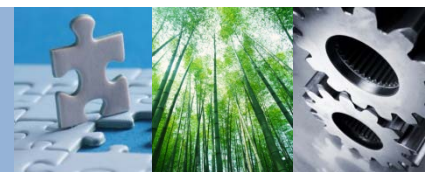
- Industry can be indirectly influenced by SSEE through the above changes in professional practice, as well as exerting influence from Government regulation
- Key ideas expressed include;
 - i. Achieving efficiencies and synergies
 - ii. Creating and reinforcing accountability
 - iii. Exerting leverage through financial incentives and cost drivers

C. Government

- Government is clearly recognised as pivotal in shaping legislation, regulatory frameworks and policy, at all 3 levels of Govt.
- SSEE can influence Government through being clear about its position and lobbying. This may require sensitivity to Engineering Australia's position on certain issues
- Key ideas expressed include;
 - i. Legislation and policy setting
 - ii. Funding and investment
 - iii. Bi-partisan support for major change
 - iv. Establishing regulatory standards

D. Community & Households

- The significance of influence of the community on shaping political will and being participants in driving change was highlighted
- SSEE can support this through potential alliances with existing active community interest groups and campaigns
- Key ideas expressed include;
 - i. Education and awareness
 - ii. Change to lifestyle, values and consumption habits
 - iii. Encouraging community involvement and taking responsibility
 - iv. Influencing behaviour through economic changes

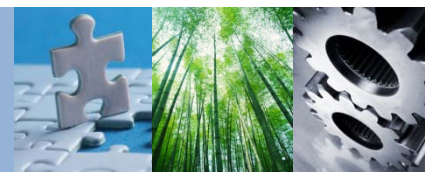


Appendices

Appendix A; Opportunities clustered into Key Themes

Appendix B; Actions/ Recommendations listed by theme

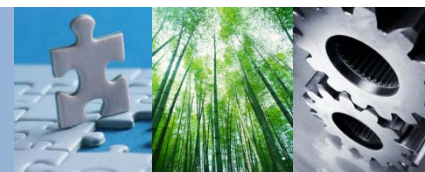
Appendix C; Invitation and Agenda Example



Appendix A – Opportunities clustered into Key Themes

Theme	#	Opportunity Name (from workshops)
1. Energy production and distribution	A7	Coal 'fascists'
	N6	Increase investment in renewables
	P3	Energy efficiencies
	N8	Clean energy cluster - Innovative energy technologies
	B8	Distribution Energy Generation
	P6	A better grid - More renewable energy
2. Resource & material design & lifecycle	B5	Forests & Fibre
	N5	Water wise
	N1	Localisation of land use & food
	N2	Cradle to Cradle
	P7	Efficient design & Material use
	P8	Production - Waste Lifecycle Regeneration
3. Urban infrastructure	N4	The New Re-Inventors - Redesign urban living
	B4	Increased Public Transport Uptake
	A1	Efficient Transport
	A2	Urban infrastructure redesign (Transit Oriented Developments)
	P5	Improve building efficiency
4. Regulatory and Price controls	A4	Government leverage
	B2	Market Based Mechanism
	B7	Fair Dinkum Resource Costs
	A6	Money matters - price signals
	N7	Carbon tax and Global equitable allocation
	P1	Carbon tax
	B9	Rationing – Demand Management
	A3	Energy socialists - ration/ quota
P2	Rationing - A carbon card	
5. Community Awareness and Engagement	B6	Agents for Change (communicating the sense of urgency for immediate action)
	P4	Democratise; erode boundaries, open info. flows & involve all stakeholders
	B1	Carbon Warriors
	A8	Carbon truth
	B3	Changing Community Values
	A5	Mindset shift from Growth to Sustainability
N3	Reduce consumption	

Key A = Adelaide
 B = Brisbane
 N = Newcastle
 P = Perth

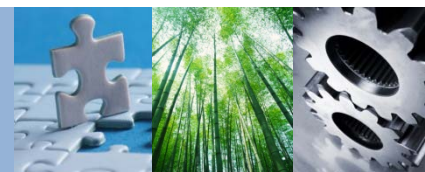


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Appendix B

Themes with Actions/ Recommendations

Theme	Opportunity	Call to Action / Recommendation		
1. Energy production and distribution	A7	Coal 'fascists'	<p>Short term - Direct change over from Coal to Gas turbines</p> <p>Long term - locate energy production close to consumers</p> <p>Remove fear of change. Get industry out of their comfort zone</p> <p>Counteract the power of lobbying.</p> <p>Fund large scale renewable generation</p> <p>Incentive scheme. Gov fund on capital expense</p> <p>Broadly implemented feed-in tariffs</p> <p>Education of actual numbers of jobs lost from coal sector</p>	E E I G G C C M
	N6	Increase investment in renewables	<p>Recognition for innovation & promotion of educational seminars/ trade days by RIA, ECA</p> <p>Curriculum development for increased skills in renewable energy innovation - prime the green jobs market</p> <p>Recognition & education; best practice in renewables, awareness raising, appropriate graduate programs for renewables</p> <p>Mandated renewable energy targets - meeting standards within industry sector</p> <p>Lead by example; Govt buildings 100% renewable energy</p> <p>Ban new coal mines & coal power solutions, phase out coal</p> <p>Accreditation for renewable professionals and trade</p> <p>Buy back tariffs; Mandate % of Accredited GreenPower</p> <p>Local renewable energy production, reducing reliance on energy grid; Connect to Smart Grids to help self manage energy use</p> <p>Improve energy efficiency in domestic use.</p>	E E I G G G G C C
	P3	Energy efficiencies	<p>Design; Education; Info</p> <p>Adopt and produce synergies</p> <p>Source water & power closer to source</p> <p>Policies & legislation to facilitate embracing of technology</p> <p>Encourage adoption of technologies</p> <p>Solar air heating - heating of home uses 36% of home energy</p> <p>Efficient use of water - smart metering, level out demand, in-home displays of water/ energy</p>	E I I G C C C
	N8	Clean energy cluster - Innovative energy technologies	<p>Upskill, research groups, borrow skills, share practical examples</p> <p>Develop new technology for storage of intermittent energy sources</p> <p>Invest in clean energy - lead by example. Build skills for the future</p> <p>Co-generation; reduce waste heat, cost savings</p> <p>Policy & tax changes - eliminate fossil fuel subsidies, fund research, eliminate baby bonus</p> <p>Education politicians re Nuclear</p> <p>Reduce use of energy (eg. Air con.)</p> <p>Education of community - vote climate change skeptics out of parliament</p> <p>Practical action - solar panels on roof</p>	E E I I G G C C C
	B8	Distribution Energy Generation	<p>Drive research into methodologies to integrate high levels of distributed generation</p> <p>Incentives for R+D, innovation as % of capital</p> <p>Fed govt. to implement R+D policy & tax incentives</p> <p>Fed Govt to provide positive income for distributed energy – regulator driven (AER)</p> <p>Qld Gov Ban coal fired power stations (C.F.P/S) & conduct efficiency audits on existing CFP/S & legislate a decommissioning program.</p> <p>B8 – G4 Legislate to reduce advertising for increased consumerism</p> <p>Awareness raising at Primary Schools</p> <p>Energy efficiency , appliance rating e.g. Kw/hr usage = \$\$</p>	E I G G G G C C
	P6	A better grid - More renewable energy	<p>Design cool stuff to work better</p> <p>Refuse to design crap systems</p> <p>Introduce Green/ Efficiency Rating system for Eng.</p> <p>Redesign Engineering courses to normalise renewables & higher efficiency</p> <p>Lobby Govt to enact renewable & Green projects</p> <p>Peer to peer training</p> <p>Incentive program for renewables - RET, Carbon price</p> <p>Infrastructure funding - grid & generation</p> <p>R& D incentives - develop economies of scale</p> <p>Desist from subsidising the fossil fuel/ coal fired industry</p>	E E E E E G G G G



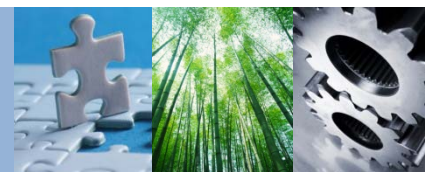
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Theme	Opportunity	Call to Action / Recommendation		
2. Resource & material design & lifecycle	B5	Forests & Fibre	Design & maintain forest as ecosystem Design and implement new fibre technology New materials Change fibre sources, eg hemp Develop new fibre uses Legislate change, land allocation, cash, replant forests to soak up carbon Involvement with implementation in community	E E E I I G C
	N5	Water wise	Design & insist on storm water capture and re-use, waste water re-use, solutions using less dams, more tanks Recycling, no use of potable water Legislate for water efficient use; in agriculture (eg. Rice in Nth Qld), grey water, retrofitting tanks, in buildings & industry. User pays, increase price to control use Grants to make plumbing/ grey water re-use All public buildings, schools, pools to have water tanks, recycle, et	E I G G C C
	N1	Localisation of land use & food	Biomass processing and revegetation technology Food mileage limits Trees not beef incentives Enabling infrastructure, education & incentives Co-operatives, local businesses + self sufficiency	E I I G C
	N2	Cradle to Cradle	Life-cycle management, including Scope, Design, Decommissioning/ recycle (eg. AWT) Co-zoning of industries Internalisation of product cost. Lease more products Extended producer responsibility; subsidies, tax incentives, landfill levies, labelling products Education Financial penalties	E I I G C C
	P7	Efficient design & Material use	Encourage & promote research through educational campaigns, competitions & scholarships Inform Engineers of available technologies, research and cost Company schemes to reward in-house innovation Eg. Paid suggestion box, bonuses Incorporate cost of recycling & disposal in purchase price of product Compulsory Lifecycle Assessment of new products	E E I I G
	P8	Production - Waste Lifecycle Regeneration	Research Waste Disposal - what can't be re-used now, look abroad. Innovation & break barriers Take responsibility. Act locally. Co-generation. Realise reciprocal benefits. Share resources & waste. Waste Trading New policies & workgroups. Local taskforces Co-operation across councils Individual responsibility. Mindful consciousness. One planet, one civilisation.	E I I G G C



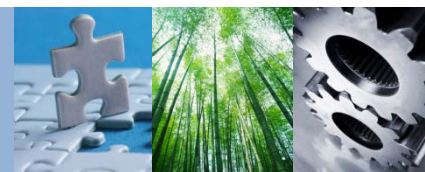
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Theme	Opportunity	Call to Action / Recommendation		
3. Urban infrastructure	N4	The New Re-Inventors - Redesign urban living	<p>Professions; Land planners, architects - Create space for community empowerment & knowledge sharing - Build/ develop consolidated cities</p> <p>Retrofit houses & buildings</p> <p>Academia/ Education, Media, Building Designers - as above</p> <p>Greenbelt- green corridor strategies</p> <p>Urban agriculture land protection policy</p> <p>Emphasis on neighbourhood. Stop urban sprawl. Consolidate urban areas</p> <p>Sense of place and community, stop urban alienation</p>	<p>E</p> <p>E</p> <p>I</p> <p>G</p> <p>G</p> <p>C</p> <p>C</p>
	B4	Increased Public Transport Uptake	<p>Design new Busways if needed</p> <p>Redesign roadways to incorporate priority public transport</p> <p>Design new low/zero emissions buses + trains + trams eg mini buses for shorter local routes at night</p> <p>Fund extra buses, Change bus schedules</p> <p>Interlink Buses & trains & ferries (feeder services)</p> <p>Change laws on how buses operate (safety laws etc)</p> <p>Promote confidence in buses, security, personnel, lighting at bus stops at night</p> <p>Cheap/Free Public transport with buses stopping anywhere you want along the route at night time.</p> <p>Use the buses, "try it out for a night"</p>	<p>E</p> <p>E</p> <p>E</p> <p>G</p> <p>G</p> <p>G</p> <p>G</p> <p>G</p> <p>C</p>
	A1	Efficient Transport	<p>Design energy efficient vehicles (trains, trams, buses, cars, monorails) new efficient materials, new fuels, engines to run on alternative fuels</p> <p>Build more efficient vehicles; less powerful cards</p> <p>Build more standard cars; less choice</p> <p>Ban all petrol powered motorsports</p> <p>Apply fees/ taxes to reduce car usage; entry to CBD, incr parking tariffs</p> <p>Subsidise public transport - plan suburbs to create easier public transport access</p> <p>Policy to buy back old cars (cash for clunkers); tax less efficient cars; incr tax on new car purchase</p> <p>Reduce car use; car pooling; use bikes and walk instead of car</p> <p>Live close to workplace/ shops</p>	<p>E</p> <p>I</p> <p>I</p> <p>I</p> <p>G</p> <p>G</p> <p>G</p> <p>C</p> <p>C</p>
	A2	Urban infrastructure redesign (Transit Oriented Developments)	<p>Develop and apply new needed skills in profession</p> <p>Urban planning for access to public transport, bikeways, covered walkways, communal bikes</p> <p>Learn from, invite and demonstrate successful cities to promote and educate for innovation</p> <p>Be proactive with Govt, offering specific skills</p> <p>Planning approvals; rezoning for mixed use development</p> <p>Incentives to developer (tax relief, planning concessions for above standards, energy efficiency)\</p> <p>Decentralised power grid design</p> <p>Educate community; demonstrate good examples done elsewhere</p> <p>Develop mixed use clusters (hub for shops, commerce)</p> <p>Communal activities (gardens, urban farms, recreation facilities)</p> <p>Local grey water, recycling, etc</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>G</p> <p>G</p> <p>G</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p>
	P5	Improve building efficiency	<p>Compile a Manual of technologies and behaviour changes that can contribute to achieve 10 Star Water and Energy efficiency standards for All New houses and commercial buildings (& retro fit buildings)</p> <p>Design and get funding to deliver training programs (for Architects, Building Company staff, developers & local & State govt. staff) on the Manual to raise awareness and embed 10 Star efficiency standards & their economic feasibility</p> <p>Take a solution oriented approach to this new regulation - Cooperate with Govts to help design and implement the 10 Star regulation</p> <p>Help educate the community (commercial and domestic buildings) of the need for the regulation, the costs and how it is achievable. (Treat this as an opportunity for new markets and gain greater market share for new movers)</p> <p>Cooperate to introduce an upgrade to building standard regulations to require 10 star water and energy efficiency standards for All new houses and commercial buildings, through COAG by Mar 2010</p>	<p>E</p> <p>E</p> <p>I</p> <p>I</p> <p>G</p>



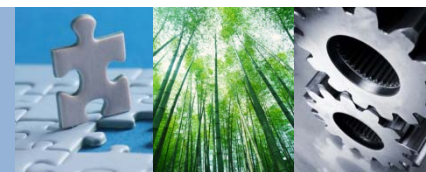
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<i>Theme</i>	<i>Opportunity</i>	<i>Call to Action / Recommendation</i>		
4. Regulatory and Price controls	A4	Government leverage	Be more vocal in representing the problems and solutions to Government Increase accountability and penalties to pay for inefficiencies in energy & resource use. Fund renewable R & D Bite the bullet; listen to experts (like Prof Ian Lowe) Start with children because they influence parents; Education on env impact of our lifestyle	E I G G C
	B2	Market Based Mechanism	Appropriate costing for alternate products Honest Broker EA to scope real costs for community Legislate for strong clear long term carbon reduction	E E G
	B7	Fair Dinkum Resource Costs	Implement identify and seek best solution Comply: pays real cost tax, passes on with real price to consumer Legislate real cost of resource, externalities identified & taxed & redistributes the costs (tax) Call for action: the pricing structure for a resource (energy, water, materials) needed to accurately reflect the real cost of supply	E I G C
	A6	Money matters - price signals	Raise awareness of price signals and price controls with Engineers & others. Encourage innovation Name & shame Carbon tax on GHG emissions to drive market response R & D Grants. Industry grants & tax breaks encouraging innovation Educate/ raise awareness about alternative energy sources. Stimulate political action	E I G G C
	N7	Carbon tax and Global equitable allocation	Model how the new system will work, provide options Lobbying & advocacy Respond & adjust; energy efficiency solutions Financial disincentive to pollute + financial incentive to reduce pollution Invest in distributed generation	E E I G G
	P1	Carbon tax	n/a Industry is main receiver of tax. However CPRS can effectively reduce overall costs Must implement the tax at rate that corresponds to a safe level of CO2 ppm in atmosphere. A tangible economic cost like a carbon tax will positively effect citizens through buyer behaviour and brick wall exposure to effects of climate change	E I G C
	B9	Rationing – Demand Management	Embedding Sustainability in professional practice & education, e.g. "set & forget" designs pay for whole life costs Use different mechanisms to achieve e.g. PPPs Change building codes Mandate whole life costs Mandate on E & Res's Consumption & Reduction (Rationing) Mandate time of use changing; roads, public transport. Carbon rationing Resource rationing (e.g. water) Smart metering (e.g. real time consumption monitors)	E I I G G G G C C C
	A3	Energy socialists - ration/ quota	Establish standards for alternate energy sources Design monitoring and enforcement mechanisms that drive mitigation Increase efficiency - reduce energy output Implement policy and audit Establish non compliance consequences Reduce consumption Increase efficiency and replace low efficiency products	E E I G G C C
	P2	Rationing - A carbon card	Smartcard - Linking carbon printout with integrating into efficient technologies. Judged on carbon effectiveness of projects Agriculture, Nox+CH4 emissions. Tie Corporate Exec salaries to carbon emissions. Reporting held into conditions of publicly listed companies. Inventors Aid - Reduce risks for Corporates to take on inventors; "Make it S" campaign Carbon points (like Frequent Flyer points) Marketing campaign Carbon Ration Card/ E-Card. Carry with you and when purchasing petrol, etc, carbon is accounted. Can offset card with renewable energy. Reduce tonnage per yer per person	E I I I G C



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Theme	Opportunity	Call to Action / Recommendation		
5. Community Awareness and Engagement	B6	Agents for Change (communicating the sense of urgency for immediate action)	Put forward solutions for implementation, providing technical information dump "sustainable development" introduce SUSTAINABILITY Adapt to sustainable/low carbon technology Lobby for tax incentives Recognise the need for bi-partisan support Respond to voter needs Responsibly plan for the future & legislate accordingly Insert "limits to growth" in the constitution	E E I I G G G
	P4	Democratise; erode boundaries, open info. flows & involve all stakeholders	Place more value on innovation Provide education to the community Regulate Get people involved Provide information & opportunity for action	E E G C C
	B1	Carbon Warriors	Rule book to play game & adjudicate Teams forming across sectors All Australians to reduce their footprints collectively Game based approach to engage community support Sponsors, champions, communicators Multiple Focus projects Klean up Australia but with prize money People Power – Create a carbon warriors scheme for every industry, school etc with \$100,000 prizes nationally in every sector for their Carbon Reduction Achievement Create Hall of Fame, Australian of the Year	E I C C C C C C
	A8	Carbon truth	Research and provide facts on true carbon costs of everything Should embrace economic opportunities with low carbon marketing gC/100g labelling system, earth rating, black balloon rating Legislate appropriate costing of carbon on all goods and services	E I G G
	B3	Changing Community Values	Educate clients, governments, co-workers, other industries Product stewardship Take advice from profession & regulate Green Advertising Campaign Education program & labelling whole of life costs Rating products (independent website) Redefine abundance	E E G C C C C
	A5	Mindset shift from Growth to Sustainability	Educate on sustainability & LCA; arithmetic of growth, targets and standards Seek champion for new sustainability business model Implement policy and standards defining sustainability	E I G
	N3	Reduce consumption	Engineering for whole of life cycle "Cradle to cradle"; Design for efficiency, mandatory back-compatible design (repairable) Public outreach & communication Triple bottom line; economic/ social/ environmental Repair/ retrofitting/ recycling in industry Minimise packaging Legislation & regulation to subsidise/ penalise; Heavy taxes on waste Car pooling/ sharing resources (eg Lawnmower) Ban advertising. Media messages about consumption Redefine happiness	E E I I I G C C C





The Society for Sustainability & Environmental Engineering,
Lake Macquarie City Council and Newcastle City Council
invite you to a workshop on

Climate Code Red Emergency Planning

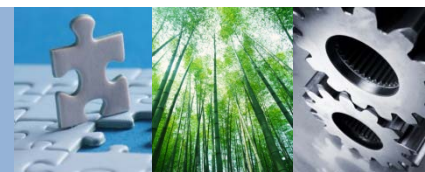
If Australia declared 'Code Red' status on climate change and had to reduce carbon emissions by 50% immediately and at all costs, what would we do? Come and contribute your ideas in a national series of workshops, taking a fresh look at options to combat climate change using a light-hearted approach to explore a serious situation.

When: Friday, 14 August 2009
2.00pm - 5.00pm

Where: Newcastle Panthers
King Street, Newcastle West

RSVP: Essential by 10 August 2009
Katrina Baker Ph: 02 4926 4440
Email: kbaker@engineersaustralia.org.au

There is no charge to attend this workshop



SSEE Climate Code Red – Opportunities for Action Newcastle, Wed 14th October 2009

Context

This series of workshops in each state will bring groups of engineers, scientists and other professional leaders together to contribute to the development of policy regarding Climate Action, including mitigation measures to avoid climate catastrophe, and adaptation alerts where preparedness is required for unavoidable changes.

The outcomes of the workshop may be suggestions for actions for cutting greenhouse emissions through a number of avenues:

- changing habitat development patterns (rethinking Ecological Sustainable Development (ESD))
- changing behaviour patterns, lifestyles and the way we manufacture and deliver our “things”
- new policies and actions to break from business as usual (BAU) in areas such as energy, water, waste, international trade, communication (travel), etc

The focus of the strategies developed will be for implementation in Australia.

SSEE propose to present the results of the workshops as an on-going program of reform at the SSEE National Conference in Melbourne in November 2009. The workshops will also provide valuable input into the Safe Climate Australia transition plan.

Participation & Approach

The meeting will commence with a compelling presentation and discussion with Professor Ian Lowe. Professor Lowe will present a clear and balanced explanation of the current scientific understanding of global warming, and its effects on Australia’s climate, land use, energy and water consumption, and on our economy, industry, agriculture and daily life.

He will also challenge us to face up to the changes which global warming is bringing, and to accept the responsibility for planning and creating a sustainable future.

A 3 part workshop will then be conducted using a number of smaller group discussion methods to facilitate increased opportunity for interaction, participation, knowledge sharing and decision making.

Facilitator; David Pointon, FAST Meetings Co. – [Read Bio here](#)

Details

Venue; Newcastle Panthers – Corner King and Union Streets

Duration; 4.00 pm Sharp start – 7.00 pm Sharp close

When	Dur	What	Purpose; Why
4.00	5	Welcome	Welcome and introduce guests
4.05	10	Focussing in	<i>Focus</i> Establish the agenda, approach and expected outcomes
4.15	45	‘Living in the Hothouse’ – Dr Ian Lowe	<i>Awareness</i> An up to date account of the impacts of Climate change, the challenges and opportunities arising, and what the Engineering profession, Industry, Government & Households can do.
5.00	45	Workshop Part 1; Key issues and opportunities in the face of Climate Change	<i>Awareness</i> Consideration of the key issues and opportunities arising from Climate Change.
5.45	15	Workshop Part 2; Opportunities for action	<i>Solution</i> A small number of opportunities for action will be identified
6.00	15	Tea break	
6.15	30	Workshop Part 3; A call to action	<i>Traction</i> Specific actions are identified for respective constituencies. These recommendations
6.45	15	Next steps	<i>Traction</i> Clarify next steps in the remaining consultation and reporting of SSEE forums. Prompt a call to action they can take personally
7.00		Close & Depart	

