

SSEE

Climate Code Red – Priorities for Action

Summary of Outputs

**Canberra, ACT
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Overview

A 3 hr workshop held in Canberra on 23rd March 2010 was the continuation of a series of workshops held in 5 cities around Australia. This report provides a summary of the outcomes of that workshop, as well as the outputs of previous workshops

Purpose

The workshop was held to build on the results of the Code Red Workshop series by considering opportunities for action within the 3 Priorities for Action identified at the National SSEE Conference.

Outcomes from workshop

1. *Priorities for Action*

The 3 Priority themes were affirmed by the majority of delegates.
An additional key area of focus was also discussed

A. Energy production, distribution & efficiency

B. Community awareness & engagement

C. Urban infrastructure

D. Urban form

2. *Collaboration amongst participants*

The interactive discussion allowed plentiful sharing amongst participants and this provided an opportunity for relationship building and collaboration.
Participants are encouraged to build on those connections made

3. *Working group to advance key ideas*

The suggestion of a working group arising from the workshop was made by a number of people.
Participants are encouraged to contact Adrian Piani to express an interest in being involved.
adrian.piani@hyderconsulting.com

Next steps

1. Working group

- a. A working group may be formed to identify key opportunities for action from amongst those suggested by the workshop cohort
- b. These actions could then guide further local SSEE actions

2. EA communication

- a. A key opportunity for SSEE Canberra is to increase communication and influence with EA directly, to influence policy, education and standards relating to Sustainability and Climate Change issues



Appendices

Appendix A; Individual suggestions of Key ideas for Action

Appendix B; Café' table outputs of Issues and Opportunities relevant to 3 Priorities for Action

Appendix C; Priorities for Action – From previous workshops

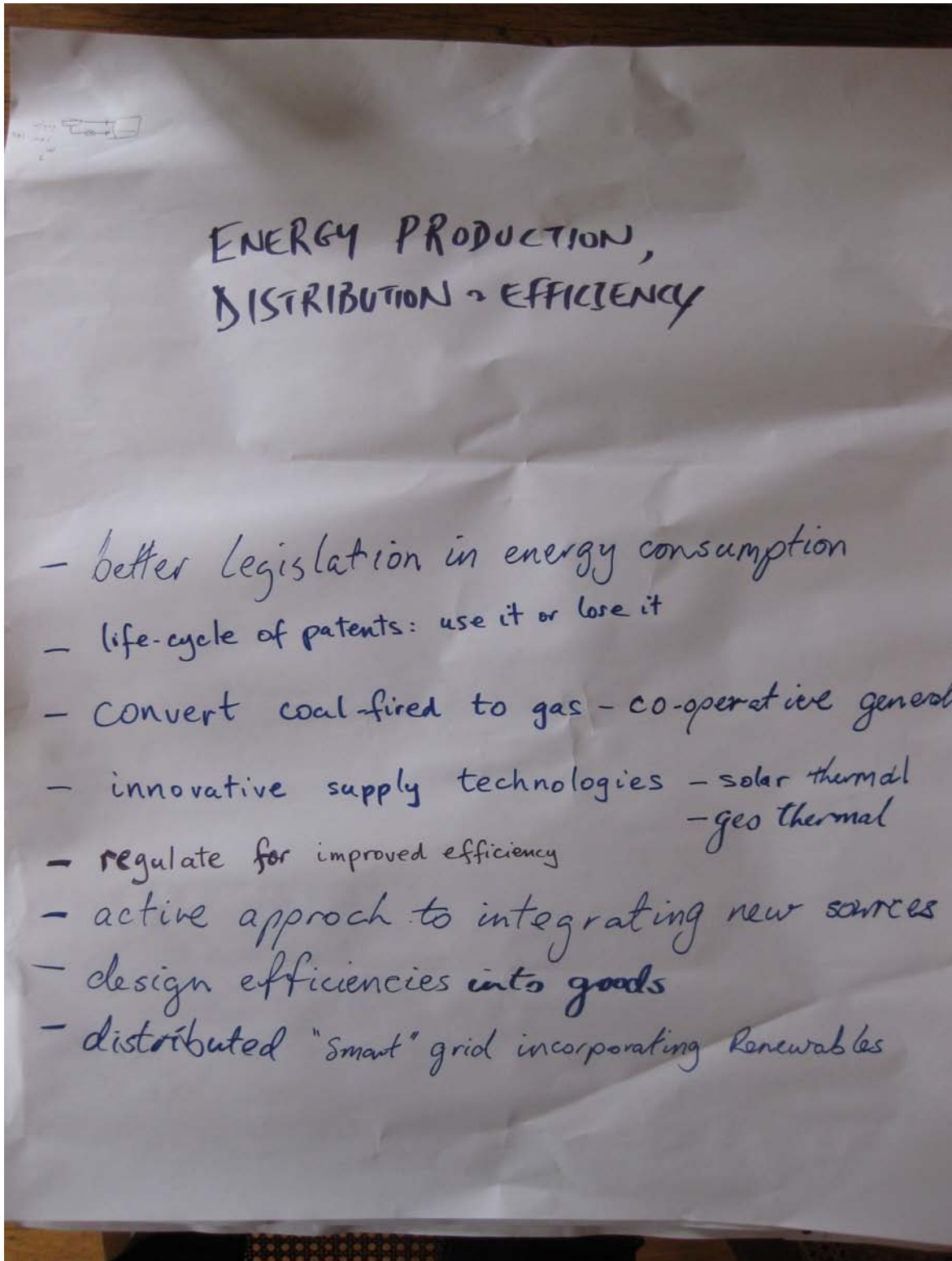
Appendix D; Related organisations – begun in Melbourne

Appendix A – Individual suggestions of key ideas for action

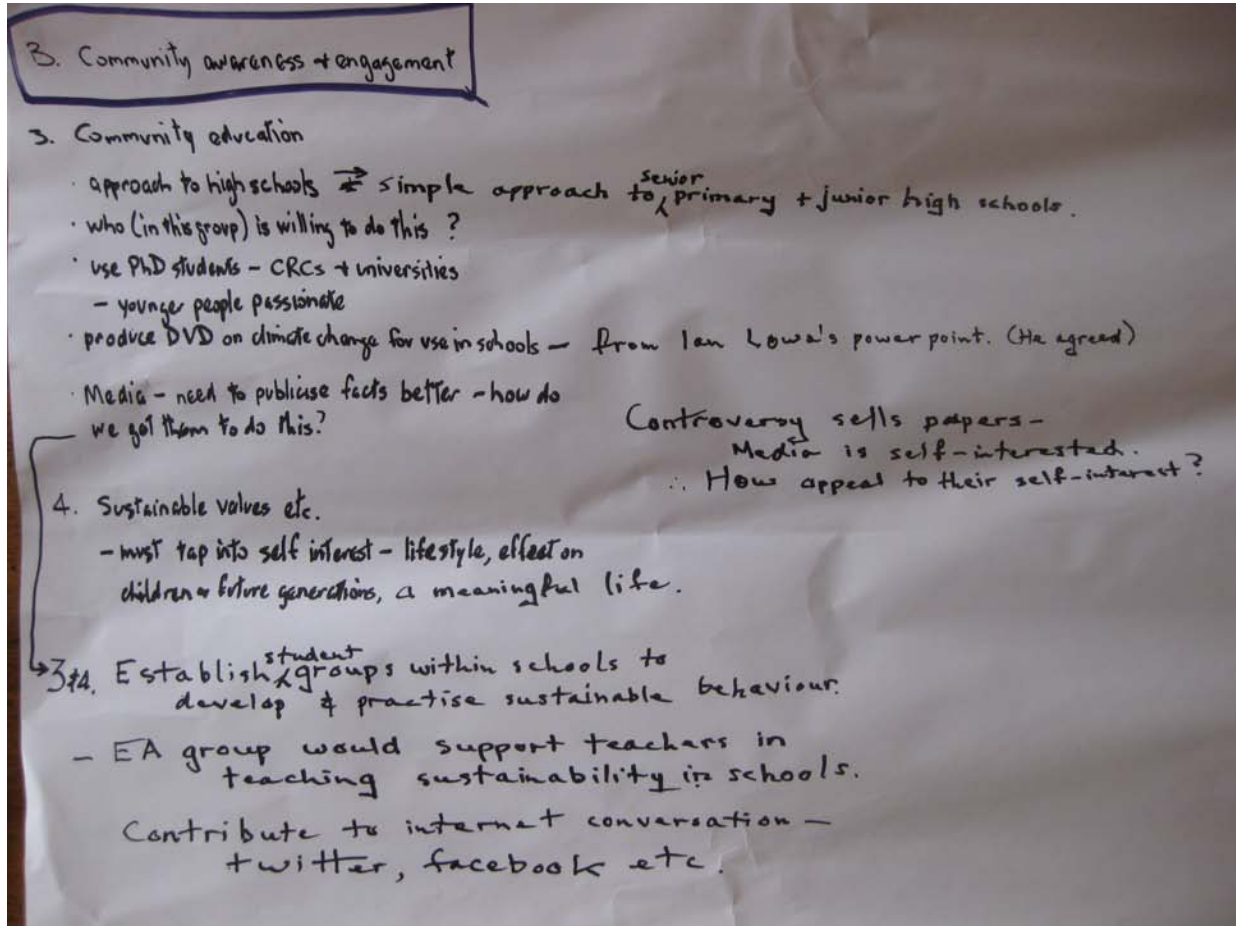
Big Ideas	Personal actions
<ul style="list-style-type: none"> School education Media 	<ul style="list-style-type: none">
<ul style="list-style-type: none"> Energy Cost increase (will drive engineering innovation) 	<ul style="list-style-type: none"> Reduce energy use at home <ul style="list-style-type: none"> Solar hot water Solar cells/ energy production Energy efficient appliances
<ul style="list-style-type: none"> Regulation to reduce inefficiencies in electrical consumer goods/ appliances (ie. Mandate minimum energy efficiency) Regulation in buildings; requiring higher energy efficiency rating. Mandating solar power on houses for localised energy production Conversion of existing coal power stations to gas fired 	<ul style="list-style-type: none"> Reduce car use by taking public transport, car pooling or riding Convert incandescent / halogen bulbs to more efficient types
<ul style="list-style-type: none"> Free public transport and disincentives for driving. Better bicycle infrastructure. Eg. More road lanes for bikes, fewer cars Raise cost of parking Regulations for solar passive building as standard Incentives for solar hot water and power Smart metering in individual dwellings Smart sensors on public lighting 	<ul style="list-style-type: none"> Turn off electrical items rather than leave on standby Fix bike to ride short distances when I would otherwise drive (if not 'convenient' to walk)
<ul style="list-style-type: none"> To protect investment of coal power station owners, convert to natural gas. Invest in renewable energy generation and phase out fossil fuels without penalty when they reach then end of life 	<ul style="list-style-type: none"> Bring about an environmentally sustainable, spiritually fulfilling and socially just human presence on this planet
<ul style="list-style-type: none"> Influence Australian standards to ensure world best practices in energy efficiency in our products and appliances 	
<ul style="list-style-type: none"> Develop use of Geothermal energy Use Solar Panels (hot water & Electricity) with help of Govt support (long term interest free loans and cash payments) 	<ul style="list-style-type: none"> Turn off lights when not needed Turn off TV and Computer when not in use
<ul style="list-style-type: none"> Free up energy saving technology patents; Make them public domain within 2 yrs. Use it or lose it Convert Coal power stations to gas (by legislation) for completion in 2 yrs. Use the existing infrastructure for it's remaining life-cycle whilst new alternatives are phased in Ration energy use to homes and office. Legislate for more efficient buildings, appliances and transport Build new Solar Thermal and alternative power stations nearer to point of use Legislate. Do not use Carbon Trading because it is too indirect Control world population. Reference "Sustainable Population Australia". [If carbon emissions are reduced 50% per capita, but world population doubles then no benefit 	
<ul style="list-style-type: none"> Total conversion to renewable energy by 2030 Worlds best practice in buildings, vehicles, appliances Urban design/ planning for sustainable cities 	<ul style="list-style-type: none"> Aim to be carbon neutral; Offset travel (Greenfleet), Solar DHW, GreenPower, Low on food chain, Contribute to offset schemes for residual consumption
<ul style="list-style-type: none"> Energy production for food; make eating more efficient 	<ul style="list-style-type: none"> Education of others through my work and the IEEE

	<ul style="list-style-type: none"> • Look to (cat?) more efficiently
<ul style="list-style-type: none"> • Make the guiding principle of Suburban house design ‘Solar passive’ rather than ‘Views’; After a few walks around a house, you hardly notice the view, but moving sun into living areas and shading when needed makes life more comfortable and reduces energy use and CO2 	<ul style="list-style-type: none"> • Pelmets, draught stopping, hang lining & curtains on each window
<ul style="list-style-type: none"> • Reducing cars in Canberra; Sustainable transport, better public transport system, encouragement for cycling & walking • Increase parking fees, introduce paid parking in Parliament house • Reduce # car lanes, increase # bus lanes, increase cycle lanes • Make driving slower and more painful, therefore less attractive 	<ul style="list-style-type: none"> • Organisation ‘Carbon footprint’ • ‘Project Footprint’ – works for clients that will have major impact eg. Subdivision design • Then assess changes needed • Community awareness , energy use and efficiency
<ul style="list-style-type: none"> • Conversion of public transport to renewable power; solar to Hydrogen • PV solar installation for every house • Tax incentives to retrofit rental properties and private homes with energy efficiency measures (ie attain 5 star rating and keep it through auditing 	<ul style="list-style-type: none"> • Audit household energy consumption and identify changes • Design and build a new energy efficient house (5 yrs)
<ul style="list-style-type: none"> • Education in the schools and seminars for adults in what be done on an individual basis 	<ul style="list-style-type: none"> • More bicycle travel • Solar panel cells x 12 for feed-in power into the grid • More use of rainwater • Turning off all standby appliances
<ul style="list-style-type: none"> • Better integration of transport and land use planning, leading to a more compact city form, resulting in less energy consumption for transport, home energy use and infrastructure provision such as water supply 	<ul style="list-style-type: none"> • Ride bike to work • Eat less – especially meat products
<ul style="list-style-type: none"> • Program to educate high school students about climate change • Production of a DVD explaining climate change • Influence regulations to make buildings more energy efficient, appliances more efficient • Make wider community more aware of energy consumption and implications for climate change • Greater use of renewable energy and increased Govt. support 	<ul style="list-style-type: none"> • Establish EA working group to tackle climate change • Sponsor DVD on Climate Change • Discussion with EA policy makers on need for more comprehensive and stronger policies relating to climate change, especially building standards and appliance standards
<ul style="list-style-type: none"> • Legislate urban food strategy; • Design integrated program to support sustainable living spaces and community health and carbon reduction & amenity & Greening • Develop with community business media and all levels of Govt to ensure integrated policy 	<ul style="list-style-type: none"> • Grow a garden, eat the products (slowly) and enjoy it • Ride to work at least one day a week • Establish a compost heap

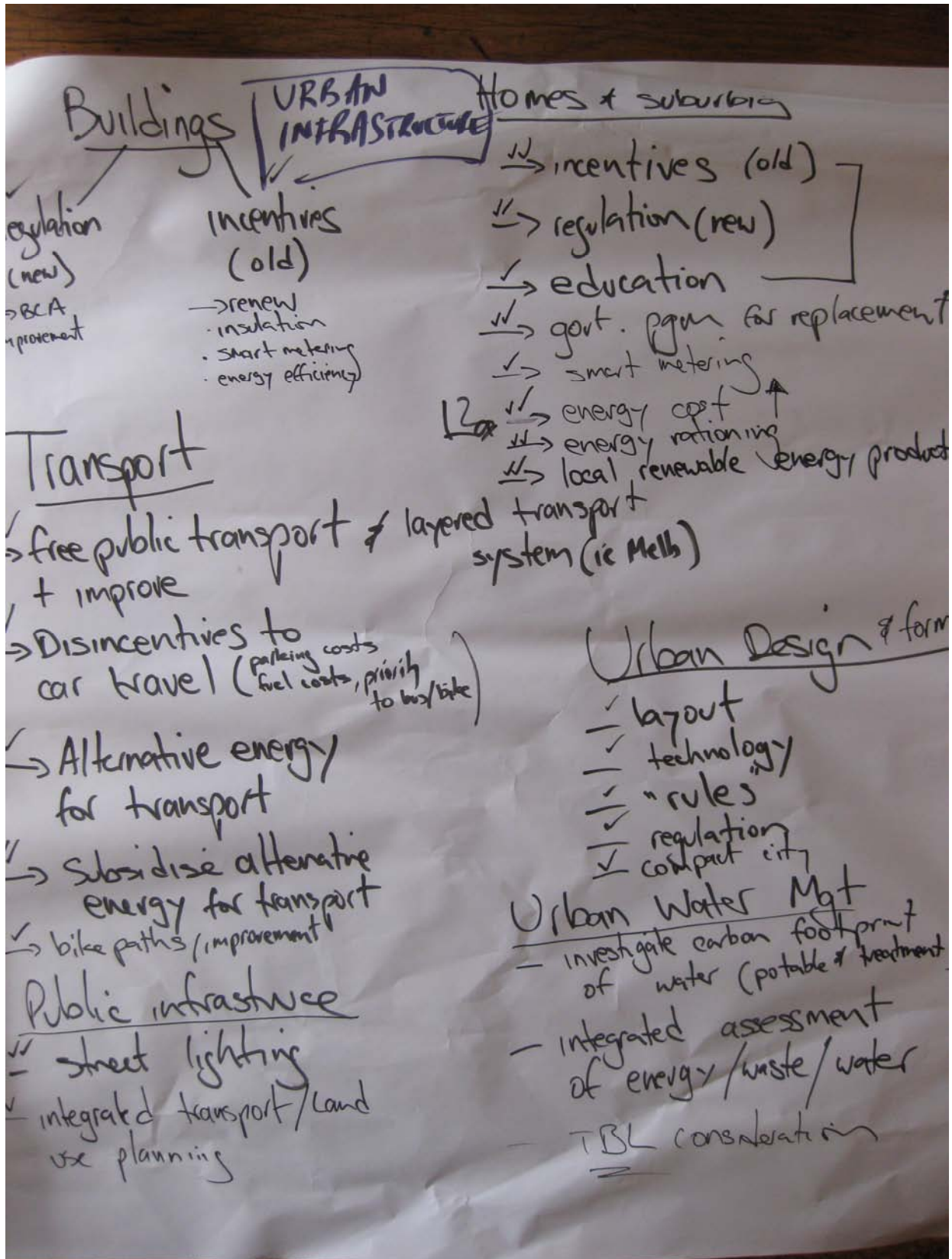
a. Energy Production, Distribution and Efficiency

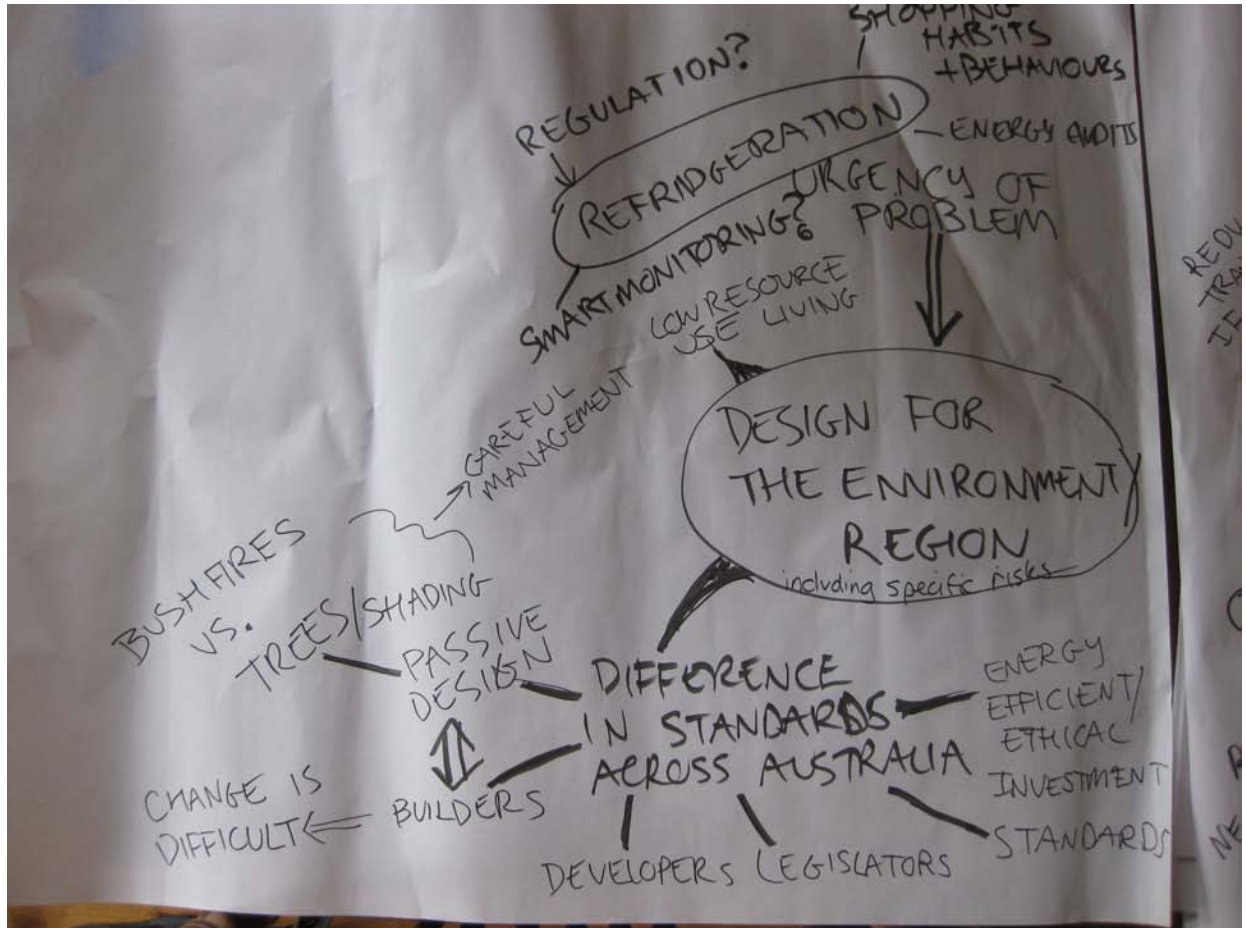


b. Community Awareness and Engagement



c. Urban Infrastructure





Appendix C - Priorities for Action – From Previous workshops

The actions listed below were identified from sub-groups at the Melbourne workshop. Also shown are suggested actions arising from the previous workshops for these 3 priority areas

	Priorities	SSEE Actions – from Melb. workshop	Actions – 4 Initial workshops
A	<p>Energy production, distribution & efficiency</p> <p><i>Drive research and support a shift from coal powered to renewable energy generation, more efficient infrastructure and energy use</i></p>	<p>a. Emergency Response Plan</p> <ul style="list-style-type: none"> - Stop non-essential energy consumption - Level 1 <ul style="list-style-type: none"> • Essential services only - Level 2 <ul style="list-style-type: none"> • Implement new gas/diesel solar PV asap - Level 3 <ul style="list-style-type: none"> • Longer term energy management & resources 	<ol style="list-style-type: none"> 1. Support design and investment of renewable energy generation projects 2. Support bans on all new coal powered plants 3. Design or advise on grid and generation infrastructure; co-generation, distributed gen. 4. Develop Engineer’s professional skills, standards, qualifications & knowledge sharing regarding energy
B	<p>Community awareness and engagement</p> <p><i>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</i></p>	<p>a. Engage & lobby</p> <ul style="list-style-type: none"> • Engineers Australia • Govt. • Professional groups <p>b. EA Sustainability Scorecard</p> <p>c. Raise Engineers profile</p> <ul style="list-style-type: none"> • Communicate with the public 	<ol style="list-style-type: none"> 1. Research and provide ‘truth’ and facts about carbon 2. Support labelling of ‘whole of life’ costs of goods 3. Facilitate community education and communication, particularly with children 4. Foster and advocate sustainable values, lifestyle and reduced consumption
C	<p>Urban infrastructure</p> <p><i>Improve urban transport, building and infrastructure design & standards to support energy efficient living in our cities</i></p>	<p>a. Connect with EA</p> <ul style="list-style-type: none"> • Influence mindshift towards climate change actions • SSEE 2 pg report to Board • Consensus from SSEE on major issues <p>b. Recommend immediate actions</p> <ul style="list-style-type: none"> • EA • Govt <p>c. Develop and apply new needed skills in profession</p> <ul style="list-style-type: none"> • Engineering education • Upskill for immediate action 	<ol style="list-style-type: none"> 1. Support urban infrastructure planning & design 2. Facilitate professional development, knowledge sharing and best practice 3. Develop or support 10 Star building standards 4. Design low/ zero emissions vehicles

Organisation	Website	Purpose
AGIC	agic.com.au	Establish a national framework for infrastructure sustainability
Alberfield		Energy, environment, risk consultants (specialist risk management)
APACE		Appropriate Technology, Native plants nursery with focus on Sustainable employment/ work practice. Grass roots org
Australian Renewable Energy Professionals		Linked in group
AusLCI		Lifecycle inventory standardizing carbon content assumptions in products
AWA	awa.asn.au	Sustainability and climate change practitioners in the water industry
Bayside Climate Action		Lobby and support local community, council and sustainable local technology
Beyond Zero Emissions		Climate solutions/ planning for zero carbon economy – campaigning, radio show
CANA		Climate action network Australia
CANWA		Overarching network (created by Conversation Council WA) to link together smaller climate action groups
Climate Emergency Network		Victorian network of climate action groups aligned w 'climate code red' book by Phil Sultan and David SPtratt
Eco2sys		Sustainability and Change transformation consultancy
Engineers without Borders		Sustainable development Engineering solutions
Green Building Council of Aust.		Greenstar building rating scheme
Global Footprint Network		Ecological footprinting
NABERS		National Australian Built Environment rating scheme
Parsons Brinkerhoff		Engineering Consultancy
Project One Earth	projectoneearth.org	Business resilience, climate change adaptation, energy & sustainability
Safe Climate Australia		Create a transition plan for Australia to a safe climate
Sustainability practitioners		WA based consultant groups
Synergetics P/L		Environmental consultants
Vic. Technology centre		Meeting rooms 6 – 60 pax, free coffee, sandwiches for SSEE
VIPAC Engineers and Scientists		Consultants – evaluations and evidence based actions
WASEN		WA student body for climate change and environment issues
WA Sustainable Energy Society		Sustainable energy
World Wildlife Fund		Living planet index
Zero Carbon Aust.		A plan to shift to zero carbon in power, transport & agriculture by 2020