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Establishing an Australian national sustainability charter: Challenges in a federated system of government

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Submission to the federation stream

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Abstract

In August 2005, House of Representatives Standing Committee on Environment and Heritage released the *Sustainable Cities* report which recommended in part that the Australian government establish national sustainability objectives (a sustainability charter) together with reporting mechanisms for progress towards those targets. In September 2007, the House of Representatives Standing Committee on Environment and Heritage released their subsequent *Inquiry into a sustainability charter*, which made a number of specific recommendations as to the implementation of this charter.

In view of the national importance of sustainability to Australia's future, this paper seeks to examine what some of the challenges might be to establishing a National Sustainability Charter. Through a review of relevant literature and policy documents, a number of challenges to the establishment of a national set of sustainability targets became clear. These challenges can be broadly classified as: coordinating policy in a federal system of government; gaining the attention of government(s); the process for establishing national values, objectives and indicators; the cost to industry and the need for government funding and incentive mechanisms; and the suitability of current ratings systems for assessing progress towards national goals. The paper also outlines how a *Sustainability Commission* might respond to these challenges.

Introduction

In August 2005, House of Representatives Standing Committee on Environment and Heritage released the *Sustainable Cities* report. The Australian Sustainable Built Environment Council (ASBEC) wrote to the Committee endorsing Recommendations 1 to 3, and Recommendation 31. In particular Recommendation 31 states:

The committee recommends that, with reference to the Swedish model of environmental objectives, the Australian Government:

- develop an accessible and identifiable set of national environmental (or sustainability) objectives for Australia;
- implement a national report card for Australia which represents transparently and simply our progress towards the objectives; and
- encourage similar programmes at a community level, possibly emulating the Tidy Towns or Celebrate WA programmes, but focusing on sustainability (House of Representatives Standing Committee on Environment and Heritage 2005 p. 155).

Recommendation 31 thus was essentially that the Australian government establish national sustainability objectives (a sustainability charter) together with reporting mechanisms for progress towards those targets.

The *Cooperative Research Centre for Construction Innovation*¹ (hereafter called *Construction Innovation*) was requested by ASBEC to examine barriers to the implementation of Recommendation 31. This was understood as identifying barriers to the establishment of national sustainability objectives setting and reporting.

Consequently, the CRC was invited to attend a Round Table by the House of Representatives Standing Committee on Environment and Heritage in order to speak to our submission. The President and Vice-President of ASBEC attended on the CRC's behalf. ASBEC was subsequently invited to meet with the Minister for Water, Malcolm Turnbull as the outcome of this activity. Thus this paper has had impact in terms of gaining the attention of government, with key representatives invited to comment further on the paper and make presentations directly to government.

This paper is focused on the built environment however the findings have much wider implications for the sustainability charter.

Research Question

The focus of this paper is to provide a preliminary answer to the following research questions:

- *What are some of the challenges to establishing a national Sustainability Charter?*
- *How might a Sustainability Commission respond to these challenges?*

These questions relate directly to Recommendation 1 and 3 of the *Discussion Paper: Inquiry into a Sustainability Charter*, and also has indirect implications for Recommendation 2.

¹ Further information about the CRC for Construction Innovation can be found in Attachment A

Recommendation 1

The committee recommends that the Australian Government

- Establish an Australian Sustainability Charter that sets key national targets across a number of areas, including water, transport, energy building design and planning.
- Encourage a Council of Australian Governments agreement to the charter and its key targets.

Recommendation 2

The committee recommends that all new relevant Government policy proposals be evaluated as to whether they would impact on urban sustainability and if so, be assessed against the Australian Sustainability Charter and the COAG agreed sustainability targets.

Recommendation 3

The committee recommends that:

- the Australian Government establish an independent Australian Sustainability Commission headed by a National Sustainability Commissioner;
- task the Commission with monitoring the extent to which Commonwealth funds and State and Territory use of Commonwealth funds promotes the COAG agreed sustainability targets; and
- task the Commission with exploring the concept of incentive payments to the States and Territories for sustainability outcomes along the lines of the National Competition Council model.

Structure of this paper

This paper argues that there are a number of hindrances which need to be overcome for the successful operation of a Sustainability Charter. These hindrances are outlined in Part A of this paper. Part B outlines possible responses by a future Sustainability Commission as it seeks to establish, measure and report on the Sustainability Charter. Other key issues, such as the role and powers of the Commission and Commissioner, and various policy instruments, such as incentive funding, will also be discussed. .

In the *Sustainable Cities Report* reference was made to the Swedish example of setting and reporting on a range of environmental goals, as a possible model that could be emulated in Australia. Where relevant, the Swedish model is referred to and possible benefits and barriers to adoption of this model in Australia noted.

Part A: Challenges to the establishment of a national Sustainability Charter

Through a review of relevant literature and policy documents, a number of challenges to the establishment of a national set of sustainability targets became clear. These challenges can be broadly classified as:

1. Policy coordination in a federal system of government
2. Gaining the attention of government(s)
3. Establishing national values, objectives and indicators
4. Cost to industry and government funding
5. Suitability of current ratings systems

These challenges are discussed in detail below.

1. Achieving Coordination in a Federal System of Government

Under a federal system, powers are divided between a central government and several regional governments. In Australia, power was divided at Federation between the Commonwealth Government and the governments of the six colonies, which were renamed 'states' by the Constitution. Specific areas of legislative power (which are termed "heads of power" in the Constitution) were given to the Commonwealth Government such as foreign affairs, whereas the states retained legislative power over all other matters that occurred within their borders, such as: police, hospitals, and public transport (Australian Government 2005).²

In some circumstances, however, the wording of the Constitution has often created situations where both the Commonwealth and the states claim the authority to make laws over the same matter (Australian Government 2005).

In federations ... policy must be negotiated between and across different levels of government, vertically between Commonwealth, state and local governments, and horizontally between states or local authorities.
(O'Faircheallaigh, Wanna & Weller 1999:97).

Environmental policy has been seen historically as primarily the responsibility of the states, with responsibility occasionally being devolved to local government, with the Commonwealth having limited involvement (Department of Environment and Heritage 2001). Responsibility is further distributed between various government departments within jurisdictions, with a net result of a highly uncoordinated approach to planning and management of the environment (Department of Environment and Heritage 2001).

Even within a single jurisdiction such as the Australian Government, responsibility and budget for environmental issues are spread across multiple government departments and agencies (Department of the Environment and Heritage 2005:3). This multiplicity of government agencies presents challenges for the coordination of objectives and targets as the role, relationship and power of any Sustainability Commission would need to be clarified in relation to these other organisations.

Vertical and Horizontal Coordination

In order to overcome difficulties in vertical and horizontal policy coordination, a large range of intergovernmental committees have developed over time (Chapman 1989), the primary one being the Council of Australian Governments (COAG). Difficulties can arise from these intergovernmental committees however, as a state parliament is not necessarily legally bound

² A complete list of Commonwealth heads of power can be found in Section 51 of the Constitution.

by an intergovernmental agreement to enact legislation to implement a uniform scheme – even an agreement made at COAG (Farina 2004). In practice, however, most legislation is passed if there is federal funding associated with their enactment.

Variation in Indicators between Jurisdictions

State of the Environment (SoE) reports are important mechanisms for reporting on environmental conditions, trends and pressures in Australian jurisdictions, and form part of Australia's international reporting obligations. Unfortunately, SoE reporting can be hampered by incomplete or inconsistent data sets, particularly when data is collected comprehensively by some states and territories, but not by all jurisdictions, nor in all areas (Department of Environment and Heritage 2001). As CSIRO (2001:162) has noted:

There is a lack of consistency and complete lack of integration between state EPAs, local governments and other state agencies ... and an inability or unwillingness to report at an appropriate spatial scale. Most reporting is at a state and territory level, notwithstanding the fact that complaints are highly specific geographically.

Current SoE reporting appears to stretch the resources of state and territory governments (Department of Environment and Heritage 2001). While Sweden has been reporting every year on progress towards sustainability targets, most Australian jurisdictions are managing to report every three or four years while some have yet to report at all (see Table 1 below). Additionally, the content of existing reports tends to focus on environmental issues pertinent to individual state or territory, however appropriate this may be it inevitably leads to variations between the indicators reported by jurisdictions.

Table 1 – State of the Environment Reporting in Australia

| Jurisdiction | Year | | | | | | | | | | | |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| ACT | ✓ | | ✓ | | | ✓ | | | ✓ | | | |
| Australia | | ✓ | | | | | ✓ | | | | | ✓ |
| NT | | | | | | | | | | | | |
| NSW | ✓ | | ✓ | | | ✓ | | | ✓ | | | ✓ |
| QLD | | | | | ✓ | | | | ✓ | | | |
| SA | | | | ✓ | | | | | ✓ | | | |
| TAS | | | ✓ | | | | | | ✓ | | | |
| VIC | | | | | | | | | | | | To be released in 2008 |
| WA | | | | ✓ | | | | | | | | ✓ |
| <i>Comparison with Sweden</i> | | | | | | | | | | | | |
| Sweden | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Consideration should be given as to how coordination will be achieved between the Australian government, the various states and territories and local governments. This vertical and horizontal policy integration is a key element of any Sustainability Charter if it is to be effective. This is particularly true if the goals are aspirational, and require state and local governments to be involved in implementing a Sustainability Charter, as well as monitoring and reporting on it, as is the case in Sweden (Swedish Ministry of the Environment 2004: 9-10). As noted in the *Sustainable Cities Report* (House of Representatives Standing Committee on Environment and Heritage 2005), there may be a need for significant initial investment in order to develop the capability of state/territory and local governments to monitor and report on environmental sustainability targets.

Given the fragmented nature of responsibility for environmental policy at the moment (Department of Environment and Heritage 2001), achieving coordination vertically and horizontally between agencies and jurisdictions is one of the key challenges that a Sustainability Commission is likely to face particularly given the federal system of government, and the dispersed nature of resources, data and authority.

2. Gaining the Attention and Support of Government(s)

According to Kingdon (1994) executive government has a limited attention span and pays attention in a significant way to only a limited number of policy objectives. Some of the ways in which an issue can emerge and become important to government, include the advocacy of an issue by political participants, or through an unexpected event, such as a natural disaster (Cobb and Elder 1972). The recent lack of water in many parts of Australia may present a “policy window” (Kingdon 1994) as drought directly affects Australians on a widespread scale, and achieving urban sustainability moves from being an issue to become an agenda of governments. COAG has likewise indicated strong interest in coordinated approaches to environmental issues in recent meetings.

In order to be effective, however, policy advocates are needed who can champion the policy agenda and mobilise resources to take advantage of opportunities (Guthrie & Koppich 1993). In this instance, the House of Representative Standing Committee on Environment and Heritage has indicated that the Australian Government is considering a lead role in advancing the Sustainability Charter in Australia which is welcomed. The bipartisan support that the *Sustainable Cities Report* enjoys also bodes well for the long term viability of the key recommendations of the report. Additionally, peak sustainability groups such as ASBEC have already indicated to the Committee their broad support for the first three recommendations of the *Sustainable Cities Report*. Likewise, many top quality research groups have interests and expertise in the area of sustainability. These champions need to be identified and mobilised at the national, state and local level to advance the notion of a Sustainability Charter.

3. Establishing National Values, Objectives and Indicators

Using Sweden as an exemplar, an Australian Sustainability Charter could arguably contain a number of different elements, all of which need to be agreed to nationally.

Table 2 – Elements of the Swedish Environmental Policy

| Charter Element | Purpose | Number |
|------------------------|--|--------|
| Overall goal | Identifies main beneficiaries of the environmental reporting process | 1 |
| Principles | States the values that underpin the objectives | 5 |
| Objectives | Objectives define what the environmental policy is trying to achieve | 16 |
| Targets and Indicators | Indicators measure progress towards one or more objectives | 80 |

The Swedish Government firstly identified an overarching aim that drives the entire environmental policy and which clearly identifies the main beneficiaries of the policy:

“The Government’s primary environmental objective is to hand over a society to the next generation in which the major environmental problems have been solved.” (Swedish Ministry of the Environment 2000:6).

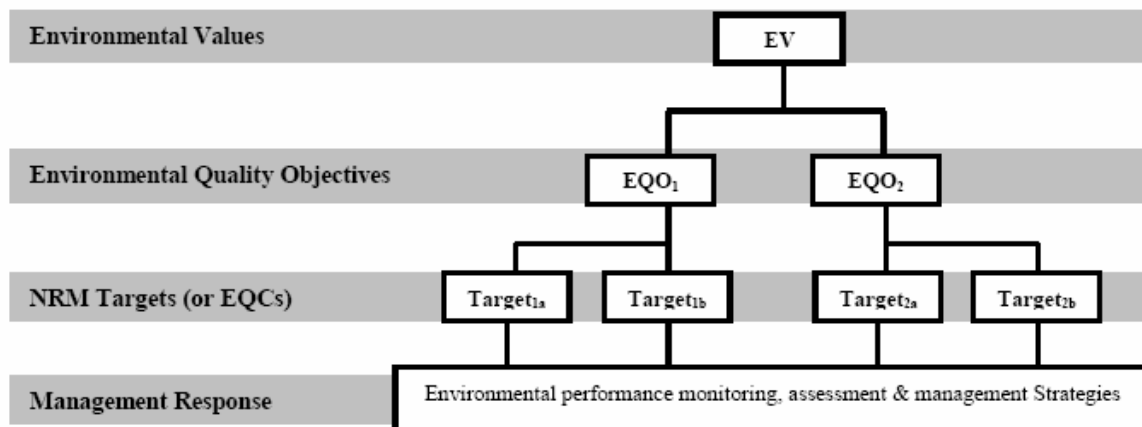
The other elements of the policy support this main aim:

The environmental quality objectives define the state of the Swedish environment which environmental policy should aim to achieve, while the interim targets specify

concrete environmental measures and timescales for implementation (Swedish Ministry of the Environment 2000: 11).

The Western Australian Government advanced a similar notion, using the term ‘values’ instead of ‘principles’, which clearly indicates the relationship between the different policy elements:

Figure 1 - EPA WA (2003:10)



The development of specific indicators is a highly technical process and the committee is referred to the submission by CSIRO in relation to these. However a national Sustainability Charter would arguably need values, objectives and targets in order to be effective.

Typically, SoE reporting in Australia has followed *Core Environmental Indicators for Reporting on the State of the Environment* (ANZECC 2000). However, reviews of SoE reports completed to date indicate variations in objectives and targets between jurisdictions. Part of this is due to the specificity of issues at a local level. For example, much of the latest Australian Capital Territory (ACT) report was overshadowed by recent fires which consumed significant tracts of forest and some suburbs in the territory. Other jurisdictions include measures monitoring the population of specific species of indigenous animals (the brush tailed possum in Tasmania for example (Resource Planning and Development Commission 2005). The reporting of these issues at a local level is significant and important as the measures are important indicators of local ecosystems. There is a challenge however, in relation to how to aggregate these multiple local stories and statistics to a coherent whole at a national level.

One of the key successes of the implementation of Swedish Environmental Objectives (Swedish Ministry of the Environment 2004) has been their ability to gain national agreement on the objectives, and to engage numerous levels of government on the implementation, measurement, and reporting of values, objectives and indicators, together with endorsement by industry on a large scale. It should be noted that regional governments in Sweden do not appear to function in the same way as Australian states, with the governor of each region directly appointed by the National government, for example (Government Offices of Sweden 2004). Regional and local government boundaries and rules of operation are established under an act of national parliament (Swedish Local Government Act 2004).

While not wishing to downplay the considerable consultation process evident in developing the collaborative and cooperative system of environmental reporting currently in place in Sweden, the ability for a unitary government such as Sweden to achieve policy coordination is likely to be higher than a federated government structure such as Australia.

The process of gaining agreement of a national set of values, objectives and targets which comprise a Sustainability Charter, and are agreed upon by all spheres of government is likely to pose a challenge for any Sustainability Commission. Policy coherence may be achieved, however, by a multi-layered consultative approach similar to that implemented in Western Australia, providing agreement can be reached by all stakeholders.

4. Cost to Government and Industry

While the *Construction Innovation* is supportive of the notion of a Sustainability Charter, as with other submissions to the *Sustainable Cities Report*, we would like to draw the attention of the inquiry to the potentially large costs which may be involved in establishing such a charter. As a model similar to that in place for Sweden has been foreshadowed in the inquiry, reference to the costs experienced by the Swedish Government and industry is informative.

Cost to Government

Budget appropriation related to establishing and reporting environmental quality objectives in Sweden increased 70% from 2001 to 2004, with total costs to the Swedish Government estimated at 45 billion Swedish Kroner (approximately \$AUD 7.3 billion³) from 2001 – 2010 (Swedish Ministry of the Environment 2000:78). This is an average of 5 billion Swedish Kroner per year (\$AUD 800 million)⁴. In contrast, current budget estimates for total expenditure on environmental activities across all Australian government departments show a decline from approximately \$AUD 3.9 billion for 2000-2007, to approximately \$AUD 1.9 billion in 2009-10 (Department of Environment and Heritage 2006). Unless significant budget allocation is appropriated for the Sustainability Charter, it is unlikely that a system similar to that currently in operation in Sweden could be implemented in Australia.

Cost to Industry

The Swedish government estimates that the cost to industry for complying and reporting on environmental objectives to be in the region of 1 billion Swedish Kroner per annum (Swedish Ministry of the Environment 2000:78) (approximately \$AUS 160 million). Unfortunately, further details on how this figure was estimated, or what percentage of total industry turnover this represents is not available.

Lack of resources has been noted as a factor hindering effective SoE reporting in Australia (Department of Environment and Heritage 2001:17). Additionally, there is likely to be costs for implementing a Sustainability Charter for local governments, particularly if they are charged with responsibility for implementing, as well as measuring and reporting on sustainability targets. As noted above, there may also need to invest in 'joined up government' and developing the capability of various spheres of government to implement, evaluate and report on the Sustainability Charter. If a Sustainability Charter was initiated in Australia, indicative costs from Sweden suggest that it would require funding at a significant level, which is not currently included in forward budget estimates. This budgetary appropriation is crucial to the effectiveness of the charter. A lower cost alternative may be to network with existing research institutions such as Cooperative Research Centres, or similar research organisations, which have demonstrated capability in the measurement of sustainability targets. This option is discussed further in Part B below.

³ Conversion rates here assume 1 Swedish Kroner is equivalent to approximately \$0.1622 Australian Dollars.

⁴ These costs are central government expenditure only, and do not appear to include costs to regional and local government(s)

5. Utility of Current Ratings Systems

The Inquiry has raised the question as to whether existing sustainability tools could be used as part of the reporting of the Sustainability Charter. One of the issues facing the construction industry at the moment is that there are a plethora of tools currently on the market, all of which have different functionality and performance. The following is an indicative list:

Figure 2 - (based on Crawley et al 2004)

| Tool Name | Location | Creator | Coverage | Coverage |
|---|----------------|--|---|--|
| AccuRate | Australia | CSIRO | Residential developments | Energy |
| Australian Building Greenhouse rating (ABGR) | Australia | Sustainable development authorities from NSW, VIC, WA, QLD | Commercial developments | Energy |
| Building Energy Rating Scheme (BERS) | SEQ Australia | Solar Logic | Residential | Energy |
| Building Sustainability Index (BASIX) | NSW, Australia | NSW Department of Infrastructure, Planning and Natural Resources | Residential developments, Commercial developments | Energy, Environment, and Social |
| FirstRate | Vic, Australia | Sustainable Energy Authority Victoria | Residential developments | Energy |
| Green Star | Australia | Green Building Council of Australia | Commercial developments | Energy, Environment, and Social |
| Life Cycle Analysis of Design (LCADesign) | Australia | <i>Construction Innovation</i> | Commercial developments | Energy, Environment, and Social |
| Melbourne Docklands ESD Guidelines | Vic, Australia | Docklands Authority and VicUrban | Commercial, residential and other developments | Energy, Environment, Social and Economic |
| National Australian Building Environmental Rating System (NABERS) | Australia | Commonwealth Department of Environment and Heritage | Commercial and residential developments | Energy, Environment, and Social |
| Nationwide House Energy Rating Software (NatHERS) | Australia | CSIRO | Residential developments | Energy and Environment |
| Sustainable Housing Code | SEQ Australia | South East Queensland Regional Organisation of Councils | Residential developments | Energy, Environment, and Social |
| Sustainable Project Appraisal Routin (SPeAR®) | Australia | ARUP | Commercial, residential and other developments | Energy, Environment, Social and Economic |
| THG Eco Index | SEQ, Australia | The Heilbronn Group | Residential and other developments | Energy, Environment, and Social |

Graham (2003) identified a further eight tools that have some levels of functionality for assessing environmental performance of buildings in the design phase. Additionally some of these tools only function in the design phase of a building, whereas others are able to provide estimations for design, build and operate phases of a building (Tucker et al 2003). An up to date catalogue of where these tools have currently been adopted is not available.

Construction Innovation is intending to undertake further research in order to develop a comprehensive ratings tool, which will function across the diverse geographic landscapes of Australia, for different building types. This tool will simplify the process of estimating the ecological impact of constructions, regardless of their intended use, or location in Australia, and estimate environmental impact at all stages of the construction process.

Part B: Responses by the Sustainability Commission to these Challenges

Having identified some of the hindrances to the establishment of a Sustainability Charter, this section will seek to articulate how a Sustainability Commission might address these issues. The first issue is the role, power and authority of the Commission, and Commissioner.

Role of the Commission

A range of possible roles is put forward for a Sustainability Commission, from a legislative role through to a voluntary coordinating role. If the Commission is to champion a Sustainability Charter vertically and horizontally through all spheres and agencies of government, then a coordinating role would seem appropriate, however, the 'push' of some mandated action may enhance the achievement of policy coherence and a consistent approach. The fragmented nature of environmental policy in Australia (Department of Environment and Heritage 2001) noted above, presents both a challenge and an opportunity (O'Faircheallaigh, Wanna & Weller 1999:97). Given the fragmentation evident, there is a clear role for a single Sustainability Commission to coordinate the establishment, measurement and reporting of sustainability in Australia.

Gaining the Attention of Executive Government

If the Commission is to leverage the existing interest and capability of government agencies, professional associations, industry leaders and community groups, the Sustainability Charter must be able to mobilise widespread support. Additionally, the Commission should identify social, industrial, political and intellectual champions for the Sustainability Charter from these organisations, who could work with the Sustainability Commission to advance the cause of a Sustainability Charter.

Coordination of Values, Objectives and Indicators in a National System

If the role of a Sustainability Commission is indeed one of coordination, then a key role would be to implement processes that lead to national agreement on the establishment, measurement and reporting of values, objectives and targets.

The Swedish model utilises an Environmental Objectives Council to establish objectives with representatives from all members of government agencies that have responsibilities for various aspects of the environmental quality objectives, as well as regional and local councils, businesses and non-government organisations (Environmental Objectives Portal 2006b). SoE Reports have typically required the engagement of specialist scientists with expertise in specific reporting areas. Additionally, states such as Western Australia and Victoria have undertaken significant consultation with industry and the community in order to establish the reporting frameworks for SoE reports.

For a Sustainability Charter to be effective, significant agreement needs to be generated on the values, objectives and indicators that form the charter. A mechanism (whether mandated or voluntary) may need to be considered to facilitate collaboration vertically between different spheres of government, horizontally across specific governments, and include representatives from industry and the community.

Cost

One way to partially defray costs associated with a Sustainability Charter is to engage with various government departments and research organisations with interest and capability in measuring progress towards sustainability objectives. For example *Construction Innovation* is well positioned to conduct research into sustainability in the built environment through its extensive industry, government and research network. Various government departments could

take responsibility for reporting on specific national targets and measures, such as Bureau of Meteorology for climate change, Australian Greenhouse Office for greenhouse emissions, and Australian Bureau of Statistics could report on a range of social and economic indicators. Using Sweden as an exemplar, the implementation, measurement and reporting burden is spread across a number of government departments, and across the various spheres of government (Swedish Ministry of the Environment 2005). Indeed specific Swedish Government departments are charged with the coordination of specific environmental objectives, while local government is involved in the establishing, measuring and reporting of environmental objectives.

The costs to industry for the implementation of such a scheme needs to be assessed, probably as part of a regulatory impact analysis processes. A methodology for assessing the costs to industry also needs to be developed.

The Terms of Reference in the Inquiry mention the use of incentive funding to the states and territories. Consideration could also be given to fund the development of capability of various jurisdictions, including local councils, in order to underpin the implementation of a Sustainability Charter.

Ratings Systems

Suitable rating systems can only be developed when it is clear what is being measured, regardless of the current position on the Sustainability Charter. Research groups including *Construction Innovation* will continue to work with its partners to develop a comprehensive flexible buildings rating tool, capable of adapting to the needs of users and of working across jurisdictions in Australia.

Summary

Construction Innovation supports the notion of the establishment of a Sustainability Charter and is working collaboratively to achieve this outcome. A number of challenges to the implementation of such a charter have been identified, together with possible responses by a future Sustainability Commission:

- Achieving coordination between jurisdictions
- Gaining political attention
- Establishing the national values, objectives and indicators
- Cost to government and industry
- Utility of current ratings systems

There is a clear need for a champion with influence to lead the cause and, with others, develop a framework which ensures a sustainability charter remains at the forefront of the minds of government and industry alike. Also there is a need for further development of measurement tools to enable simple cost effective reporting.

Construction Innovation is working to develop more coordinated approaches to sustainability – particularly in the areas of urban ratings tools and in public policy. We look forward to being able to extend this policy agenda in association with our industry, government and research partners and the Parliamentary Standing Committee on Environment and Heritage. Ongoing support for *Construction Innovation* will ensure this independent national research and implementation centre is able to deliver national and industry value.

References

- ANZECC (Australian and New Zealand Environment and Conservation Council) (2000) *Core Environmental Indicators for Reporting on the State of the Environment*. Canberra: Department of the Environment and Heritage.
- Australian Government (2005) *Federation*. <http://www.australia.gov.au/govt-in-aust-1federation> downloaded on 23 February 2006.
- Chapman, R. (1989). "Federalism, inter-governmental relations and the Australian policy process" in M. Wood, C. Williams and C. Sharman. *Governing Federations: Constitution, Politics, Resources*. Sydney: Hale & Iremonger Pty Ltd.
- Cobb, R.W. and Elder, C.D. (1972) *Participation in American Politics*. Baltimore: Johns Hopkins University Press.
- Crawley, C., Beck, A., Berry, F. and Swinson, V. (2004) "Assessing Sustainable Urban Developments: are rating tools the answer" *Australian Planner* 41(4), pp. 33 – 36.
- CSIRO (2001) *Australian State of the Environment 2001: Human Settlements*. Canberra: CSIRO publishing on behalf of Department of Environment and Heritage.
- Department of Environment and Heritage (2001) *State of the Environment Report 2001*. Canberra: CSIRO Publishing. Downloaded from <http://www.deh.gov.au/soe/2001/pubs/soe2001.pdf> on 6 May 2006.
- Department of Environment and Heritage (2005) *Environment budget overview 2005-06*. Canberra: Department of Environment and Heritage. Downloaded from <http://www.deh.gov.au/about/publications/budget/2005/ebo/index.html> on 6 May 2006.
- Department of Environment and Heritage (2006) *Environment budget overview 2006-07*. Canberra: Department of Environment and Heritage. Downloaded from <http://www.deh.gov.au/about/publications/budget/2006/ebo/pubs/deh-ebo-06-07.pdf> on 6 May 2006.
- Environmental Objectives Portal (2006a) *Environmental Indicators* Downloaded from <http://www.miljomal.nu/english/indicators.php#> on Tuesday, 9 May 2006.
- Environmental Objectives Portal (2006b) *Responsible Authorities*. Downloaded from <http://www.miljomal.nu/english/authorities.php> on 9 May 2006.
- EPA (Environmental Protection Agency of Western Australia) (2003) *State Monitoring and Evaluation Framework Discussion Paper*. Downloaded from http://portal.environment.wa.gov.au/pls/portal/docs/PAGE/ADMIN_SOE/PUBLICATIONS/DISCUSSION_PAPERS/SOE_DISCUSSIONPAPER1.PDF on 6 May 2006.
- Farina, A. (Chair) (2004) *Report of the Standing Committee on Uniform Legislation and General Purposes in relation to Uniform Legislation and Supporting Documentation*. Perth: Parliament of Western Australia. Downloaded from [http://www.parliament.wa.gov.au/Parliament/commit.nsf/\(Report+Lookup+by+Com+ID\)/BD4B1C86307C354A48256EFD0008D9CE/\\$file/ug.iga.040823.rpf.019.xx.a.pdf](http://www.parliament.wa.gov.au/Parliament/commit.nsf/(Report+Lookup+by+Com+ID)/BD4B1C86307C354A48256EFD0008D9CE/$file/ug.iga.040823.rpf.019.xx.a.pdf) on 15 November 2005.
- Government Offices of Sweden (2004) *The Swedish model of government administration - three levels*. Downloaded from <http://www.sweden.gov.se/sb/d/2858;jsessionid=amHkCFd-a2v> on 9 May 2006.
- Graham, P. (2003) "The Role of Environmental Performance Assessment in Australian Building Design" *International eJournal for Construction: Special Issue: The Future of Sustainable Construction – 2003*.

- Guthrie, J.W. and Koppich, J.E. (1993). "Ready A.I.M. Reform: Building a Model of Educational Reform and High Politics. In H.Beare and W.L. Boyd (eds) *Restructuring Schools: An International Perspectives on the Movement to transform the Control and Performance of Schools*. London: The Falmer Press.
- House of Representatives Standing Committee on Environment and Heritage (2005) *Sustainable Cities Report*. Canberra: The Parliament of the Commonwealth of Australia
<http://www.aph.gov.au/house/committee/envIRON/cities/report/fullreport.pdf>
- House of Representatives Standing Committee on Environment and Heritage (2006) *Discussion Paper: Inquiry into a Sustainability Charter*. Downloaded from
<http://www.aph.gov.au/house/committee/envIRON/charter/discussionpaper.pdf> on 9 May 2006.
- Kingdon, J.W. (1994) *Agendas, Alternatives and Public Policies*. Boston: Little Browne.
- Newton, P. et al (2001) *Human Settlements*. CSIRO: Department of Environment and Heritage.
- O'Farcheallaigh, C., Wanna, J. and Weller, P. (1999). *Public Sector Management in Australia: New Challenges, New Directions*. 2nd Edition. Melbourne: Macmillan.
- OECD (1993) "OECD Core Set of Indicators for Environmental Performance Reviews" *Environmental Monographs No. 83*. Downloaded from <http://www.virtualcentre.org/en/dec/toolbox/Refer/gd93179.pdf> on 5 May 2006.
- Resource Planning and Development Commission (2005) *State of the Environment Indicators: Possum*,
<http://www.rpd.c.tas.gov.au/soer/indicator/26/index.php>.
- Swedish Local Government Act (2004) Downloaded from
http://www.diba.es/innovacio/fixers/suecia_actualitz.pdf on 9 May 2006.
- Swedish Ministry of the Environment (2000) *The Swedish Environmental Objectives: Interim Targets and Action Strategies. Summary of Government Bill 2000/01:130* Stockholm: Regeringskansliet.
- Swedish Ministry of the Environment (2003) *A Swedish Strategy for Sustainable Development – Economic Social and Environmental*. Stockholm: Regeringskansliet. Downloaded from
<http://www.sweden.gov.se/content/1/c6/02/52/75/98358436.pdf> on 6 Mat 2006.
- Swedish Ministry of the Environment (2004) *Sweden's Environmental Policy: A brief overview*. ?Stockholm: Regeringskansliet. Downloaded from <http://www.sweden.gov.se/content/1/c6/02/58/00/e07c2088.pdf> on 6 May 2006.
- Swedish Ministry of the Environment (2006) *Sweden's Environmental Objectives – for the sake of our children De Facto 2005?* Stockholm: Regeringskansliet. Downloaded from
<http://www.naturvardsverket.se/bokhandeln/pdf/620-1241-X.pdf> on 6 May 2006.
- Tucker, SN, Ambrose, MD, Johnston, DR, Newton, PW, Seo, S and Jones, DG. (2003) "LCADesign: An integrated approach to automatic eco-efficiency assessment of commercial buildings", *Proceedings of the CIB W78's 20th International Conference on Construction IT, Construction IT Bridging the Distance*, Waiheke Island, New Zealand, 23-25 April 2003. CIB Report 284, pg. 403-413. <http://itc.scix.net/cgi-bin/works/Show?w78-2003-403>.