

# Generic Sustainability Assessment Framework for Land Planning and Development

Sarah Gautrey  
DPI

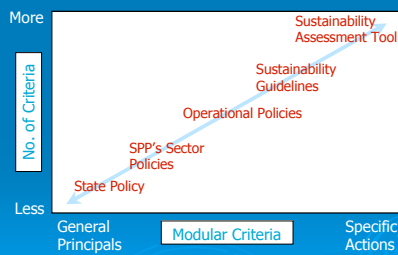
## Sustainability Framework

### Challenges

- Responding to key drivers and government policy thrusts
  - Reduce waste - Zero waste by 2020
  - Water consumption and – Recycle 30% by 2030
- Incorporating the broad nature of sustainability
- Shifting to performance measuring & target setting
- Encouraging innovation, best practice & continual improvement

## Sustainability Framework

### Current Scale of Planning



## Sustainability Framework

### Consolidating Current Planning

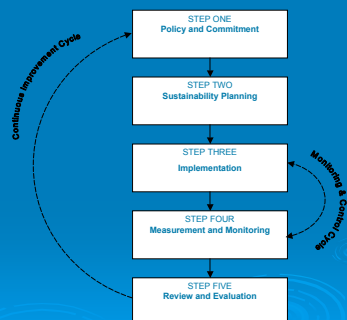
- Implementing a Review Cycle Management Framework
- Embedding Sustainability complexities
  - Utilising existing assessment tools and practices – linked to policy and best practice
- Delivering Sustainability outcomes

## Sustainability Framework

### Sustainability Management System (SMS)

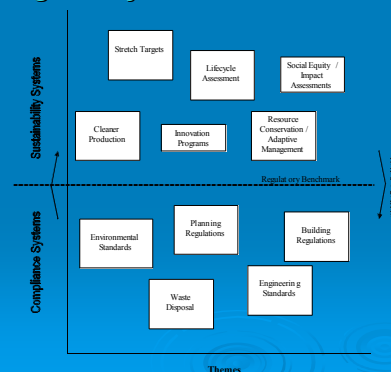
Modelled on ISO 14001

A 5-step framework to facilitate sustainability planning and continual improvement



## Sustainability Framework

### Regulatory Review

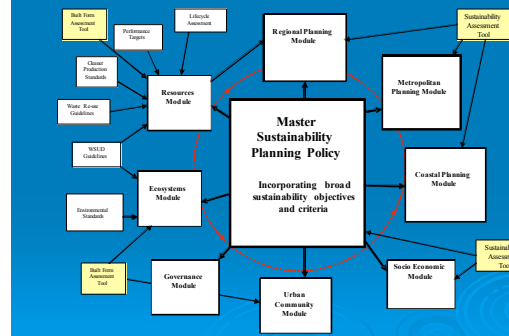


## Sustainability Framework

### Embedding Sustainability

- Utilise a modular planning system to minimise 're-inventing the wheel'
- Ensure balanced performance of ALL Sustainability Modules
- Utilise existing planning modules
  - Assessment Rating tools
  - Design guidelines
  - Management plans
  - Technical standards
  - Government departments policies and regulations

## Sustainability Framework Modular Planning System



## Sustainability Framework

### Sustainability Tools

- Land-Use Development Guidelines
  - Outlines Sustainability Criteria and Actions
  - Criteria remain constant and replicable
- Performance targets
  - Used for minimum standards of objectives
  - Aligned with other state targets
- Sustainability Assessment Tools
  - Quantifies Performance
  - Simple or complex scoring
  - Supports decision making and reviews

## Sustainability Framework

### Land-Use Development Guidelines

Element	Objectives and actions	Linkage to policy
<b>Community engagement</b>		
E2	<p>D1 Objective: Maximise input from the community and stakeholders to inform decision making.</p> <ul style="list-style-type: none"> <li>Facilitate community and stakeholder engagement on all projects and assets, at inception and throughout the development process.</li> <li>Facilitate local community engagement to identify cultural, leisure and recreational needs.</li> <li>Facilitate public consultation to determine local and cultural identity (sense of place).</li> <li>Facilitate Indigenous community engagement.</li> <li>Facilitate community and stakeholder engagement so that potential social impacts can be identified and mitigated.</li> </ul>	<p>D1 Refer to: Network City (Priority Strat. No. 8 Local identity and pride). D1 Refer to: Engaging with Aboriginal Western Australians' (2006) <a href="http://www.dia.wa.gov.au">www.dia.wa.gov.au</a> Economic opportunity/ efficiency</p>
<b>Energy</b>		
E4	<p>D6 Objective: Minimise GHG emissions through external programs.</p> <ul style="list-style-type: none"> <li>Carbon neutral development/offsetting.</li> <li>Green Power supply connection to subdivision.</li> </ul>	<p>D6 Refer to: 'Carbon Neutral Programs' (i.e. plant trees to offset calculated annual carbon emissions). <a href="http://www.carbonneutral.com.au">http://www.carbonneutral.com.au</a></p>
E4	<p>D10 Objective: Maximise opportunities for off-grid self-sufficiency.</p> <ul style="list-style-type: none"> <li>Provide renewable off-grid energy for the subdivision (if applicable).</li> <li>Minimise energy use within the development.</li> <li>Use smaller renewable energy systems for buildings and households (eg solar, wind, geothermal).</li> </ul>	<p>State Renewable Energy Target 25% by 2025</p>

## Sustainability Framework

### Sustainability Assessment Tools

Input Worksheet

SD Planner		Sustainability Decision Support Tool	
Input Data Criteria		Assessment of Performance	
Project:		Score: 0 - not achieved Stage performance:	1 - underperformance 2 - identical performance 3 - overperformance 4 - best practice NA - not applicable
Social	3	Rate the overall social performance relating to community participation, amenity, facilities, access and wellbeing	
Element	Score	Guideline Objective Reference	Description of Input Data required and analysed for assessment and rating of score
Understanding	3.1	Local Community (Sto)	10
	3.2	WSP	15
Heritage and Identity	3	3.1	15
	3.2	15	15
	3.3	15	15
Resilience (R)	3	Total Data analysed for assessment and rating of performance	
Understanding	2.1	Energy modelling	12.5
	2.2	Opportunities and opportunities	15
Energy	2.1	Renewable supply	15
	2.1	Efficiency	15
	2.1	GHG emissions	15

## Sustainability Framework

### Applications

- Review and Update Current Policy, Schemes and Strategies
- Assess Structure and Local Subdivision Plans
- Inform and guide planners and developers
- Flexible and adaptable, to apply to all levels of planning and land-uses