

# QUESTIONNAIRE

## Townsville: Have Your Say



## Sustainability and Sustainable City



# Townsville: Have Your Say (THYS) - Sustainability Consultation

## Background Information for Townsville Have Your Say Participants

Townsville City Council recognises the importance of Sustainability and the vision and opportunity of a Sustainable City. Community consultation will be used to determine community vision, expectations and contribution to Sustainable Townsville.

To get the best results from the consultation process the collective wisdom of all Townsville City Council Departments was sought to help frame the survey questions. Collated responses were documented and ideas taken on board for this Questionnaire.

The main areas of interest to explore during the consultation program are:

- » The Vision and fundamentals of an Eco-city (Sustainable City)
- » Retrofitting Townsville City to achieve Sustainable Townsville
- » Sustainability initiatives and how they are perceived
- » The economic opportunities associated with sustainability and potential for promoting and marketing Townsville as a sustainable city
- » Sustainability partnerships (social, economic and environmental) between community, business and government.

The primary area of interest is the investigation of the concept of a Sustainable City i.e. what would it look like if we had the opportunity to start with a 'clean slate'.

The THYS program will include awareness-raising with a number of information items to be distributed to THYS participants. These will be in the form of Information Sheets on various issues of sustainability.

## The Rise of Sustainability

Recognition of the value of our natural environment was a key feature of the period from 1950 to 1980. We need to maintain the functions of our natural environment as a matter of survival. Without clean air, clean water, productive soils and oceans, biodiversity and protection from ultraviolet radiation our quality of life and wellbeing is threatened.

A more recent focus has been on sustainability, which along with conservation of our natural environment includes social and economic issues.

The following definitions have been provided to assist you answer the questions in this survey.

## ***Sustainability***

'The ability to keep going, as an action or process, without giving way or yielding under a burden or experience', and '*the ability of the environment to maintain all its vital natural functions despite the damage and degradation caused by human activity*'.

## ***Ecological Sustainability***

'Is a balance that integrates:

- >> protection of ecological processes and natural systems at local, regional, State and wider levels
- >> economic development
- >> maintenance of cultural, economic, physical and social wellbeing of people and communities' (Integrated Planning Act 1997 [Qld]).

## ***Sustainable Development***

'Development that meets the needs of the present without compromising the ability of future generations to meet their own needs' (Brundtland Report 1987).

## ***Ecologically Sustainable Development***

'Using, conserving and enhancing the community's resources so that ecological processes, on which life depends, are maintained, and the total quality of life, now and in the future, can be increased' (National Strategy for Ecologically Sustainable Development 1992).

## ***Triple Bottom Line***

The concept of assessing development proposals using environmental, social and economic criteria.

## ***Natural Resources***

Air, water, soils, vegetation, landscapes, habitat, biodiversity, wildlife, people and all the features of the planet which are not constructed, manufactured or substantially modified by human intervention.

## ***Degradation***

To reduce from a higher to a lower rank, condition or state.

Below are Seven Principles of Sustainability (AtKisson)<sup>1</sup>:

1. Think long-term
2. Understand systems
3. Recognise limits
4. Conserve nature
5. Transform business-as-usual
6. Practice fairness
7. Embrace creativity

<sup>1</sup> AtKisson, *Accelerating Sustainability Workshops*, Townsville, May 2004

# 1. Demographic Information

These questions are included to assist us to understand responses to the questionnaire with regard to social and economic profiles of THYS participants i.e. to see if there are any patterns that relate to age, gender, income etc.

## 1.1 Please mark your age group in the appropriate box.

- 15-17
- 18-29
- 30-39
- 40-49
- 50-59
- 60-64
- Or, 65 and over

## 1.2 Please indicate your gender

Male  Female

## 1.3 How long have you lived in Townsville? (Please mark the appropriate box).

- Less than one year (12 months)
- 1-2 years
- 3-4 years
- 5-9 years
- 10-19 years
- 20 years or more

## 1.4 Where do you live (suburb/area)?

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1.5 Are you employed in paid work? Yes  No

## 1.6 If yes what type/s of work do you do? (Please list)

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1.7 Are you employed in any voluntary work? Yes  No

## 1.8 If yes what sort of voluntary work are you involved in? (Please list)

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## 1.9 Please indicate you/your family income per annum

- Up to \$20,000
- \$20,001 to \$40,000
- \$40,001 to \$60,000
- \$60,001 to \$100,000
- More than \$100,000

## 2 Understanding of Sustainability

2.1 Have you heard of the following? (Please mark the appropriate box at the end of each row):

Publication – Plan – Conference etc	No	Yes	Unsure
1. The book - Silent Spring (Rachel Carson 1962)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Convention on Wetlands - RAMSAR Convention (Ramsar, Iran, 1971)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. United Nations Conference on the Human Environment Stockholm, Sweden 1972	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. World Conservation Strategy (IUCN, UNEP, and WWF 1980)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. The Brundtland Report - Our Common Future: Report of the World Commission on Environment and Development (1987)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. United Nations Conference on Environment and Development (Earth Summit), Rio de Janeiro, Brazil 1992	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Local Agenda 21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Commission on Sustainable Development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. National Strategy for Ecologically Sustainable Development (Aust Govt 1992)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Kyoto Protocol on Climate Change	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. World Summit on Sustainable Development, Johannesburg, South Africa 2002	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.2 How would you rate your understanding of 'sustainability' and 'sustainable development' (Please circle a point where 0 is no understanding at all and 10 is very good understanding)



2.3 Do you believe our current way of life in Townsville is sustainable?

(Please mark the appropriate box)

No                       Yes                       Unsure

2.4 Do you believe that the Australian way of life is sustainable if current patterns of natural resource use and consumption are maintained? (Please mark the appropriate box)

No                       Yes                       Unsure

2.5 Do you believe that planet Earth is sustainable if current patterns of natural resource use and consumption are maintained? (Please mark the appropriate box)

No                       Yes                       Unsure

2.6 Briefly, what do you believe are the main threats to 'sustainability'?

(Please list) [See the definition of 'sustainability' in the Background Information]

Globally	Locally

### 3 Awareness of Broad Sustainability Initiatives

3.1 Have you heard of these initiatives, which contribute to sustainability? (Please mark the appropriate boxes).

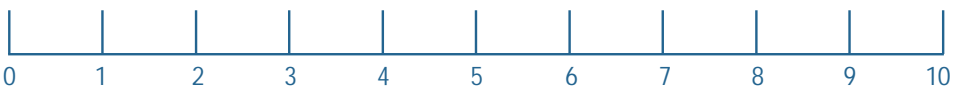
If 'yes' do you remember where you heard about these initiatives? (Please indicate in Heard About box e.g. TV, radio, newspaper, signage, Internet, study, work, friend, involvement, specify other source, or unsure)

#	Initiative	No	Yes	Heard About
1.	Natural Heritage Trust	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Australian Government Envirofund	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	National Action Plan for Salinity and Water Quality (2000)	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Reef Plan Water Quality Protection Plan (2003)	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	National Water Initiative	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Regional Natural Resource Management	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Catchment Management	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Landcare	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Townsville-Thuringowa Strategy Plan (2000)	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Sustainable Cities 2025 Inquiry	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	Cities for Climate Protection	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	Securing Australia's Energy Future	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	World Ocean Network	<input type="checkbox"/>	<input type="checkbox"/>	_____

3.2 If you indicated 'Yes' briefly describe your understanding of the main aim of each of the initiatives.

#	Main Aim	Unsure
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____
13.	_____	_____

3.3 How would you rate your understanding of sustainability initiatives you are aware of (Please circle a point where 0 is no understanding at all and 10 is very good understanding).



## 4. Practical Applications and Innovation for Sustainability

4.1 Please indicate in the appropriate box if you are aware of the listed sustainability applications and if you are aware of them do you practise/use them.

#	Application	Aware of		Practise/Use	
		No	Yes	No	Yes
1.	Green energy (Ergon Green Power)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Solar panels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Grid connected home wind and solar power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Public transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Cycle to work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Public walking tracks and bikeways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Green purchasing/Environmentally friendly products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Household waste recycling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Litter recycling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	E10 – petrol and ethanol blend, or Biodiesel – diesel and ethanol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Tropical housing design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Water conservation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Water recycling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Reusable shopping bags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Solar hot water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	White/reflective roof	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Reduced material consumption including packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	No chemicals to stormwater drains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Use of local native plants in gardens/landscaping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Catchmentcare	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Support local services and facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.2 Are you, or family members, currently involved in any other activities that you feel contribute to a Sustainable Townsville? (Please mark the appropriate boxes)

Me  No  Yes  Unsure

Family Members  No  Yes  Unsure

4.3 If yes or unsure please list example/s;

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4.4 Can you think of any examples of innovative sustainability applications that could assist Sustainable Townsville? (Please list any with a brief explanation)

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# 5. Sustainability and the Townsville Urban Setting

5.1 What do you believe are the main impediments to Townsville becoming a sustainable city? *(Please list)*

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5.2 What natural features of the Townsville urban environment do you most value? *(Please list)*

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5.3 What manmade features of the Townsville urban environment do you most value? *(Please list)*

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5.4 Do you have any ideas about potential sustainable solutions that could be incorporated into the Townsville urban environment? *(Please list)*

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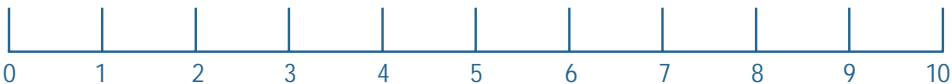
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5.6 When considering the City's infrastructure needs, what priority do you place on implementing sustainability initiatives. *(Please circle a point where 0 is no priority at all and 10 is very high priority).*





## 6. Vision of a Sustainable City

6.1 Please describe your vision (or draw a plan) of a sustainable city if you could start with a 'blank canvas'. (*Note: It may help to list features*)

**6.2 Please rate the following components when planning for and designing new subdivisions?**  
*(Please mark the appropriate column at the end of each row. If you don't have enough knowledge of a particular component mark the Unsure box)*

Component	Not needed	Low priority	Medium priority	High Priority	Unsure
<b>Assets and Infrastructure</b>					
Asset maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Below ground power lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land suitability and other pre design studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Biodiversity and Natural Areas</b>					
Natural areas/habitats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance of biodiversity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Larger percentage of open spaces/parks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protection of scenic rims and visual amenity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Energy</b>					
Energy efficient infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solar hot water systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Integrated Environmental and Social Design</b>					
Liveability for well being	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neighbourhood centre accessibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eco-villages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilising increased urban densities in planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Transport</b>					
Public transport systems and accessibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bikeways and walking tracks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proximity to work (Live-work-play)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Waste - solid</b>					
Waste minimisation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste recycling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Management</b>					
Catchment hydrology, drainage and water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water sensitive urban design for the Tropics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stormwater management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rainwater tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water conservation e.g. dual flush toilets and water conserving shower heads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Waste Water Recycling and Management</b>					
City wide waste water recycling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- large scale for parks, industry, commerce etc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 7. Sustainability and the Townsville Non-Urban Setting and Conservation Areas

7.1 What natural features of the Townsville non-urban environment do you most value?  
*(Please list)*

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7.2 What activities, if any, do you do in the non-urban environment that you can't do in the urban environment? *(Please list)*

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7.3 Are you aware of any features or issues associated with the Townsville urban environment that could affect the sustainability of non-urban environments? *(Please list)*

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7.4 Are you aware of any features or issues associated with the non-urban environment that could affect the sustainability of the Townsville urban environment? *(Please list)*

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## 8. Awareness and Understanding of Current TCC Sustainability Initiatives

**8.1 Have you heard of these sustainability initiatives undertaken by Townsville City Council?** (Please mark the appropriate boxes). If 'yes' do you remember where you heard about these initiatives? (Please indicate in Heard About box e.g. TV, radio, newspaper, signage, Internet, study, work, friend, participation, specify other source, or unsure)

#	Initiative	No	Yes	Heard About
1.	CBD Urban Renewal	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Cities for Climate Protection	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	City Plan	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Creek to Coral – "Our waterways, our responsibility"	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Creekwatch	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Don't Waste Townsville	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	EcoFiesta	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Eco-tourism Strategy	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Greening Townsville	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Greenwaste	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	Healthy City Plan	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	Kerbside Recycling Program	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	Methane Capture Projects	<input type="checkbox"/>	<input type="checkbox"/>	_____
14.	Pest Management Plan	<input type="checkbox"/>	<input type="checkbox"/>	_____
15.	Ross River Parkway and Bikeways	<input type="checkbox"/>	<input type="checkbox"/>	_____
16.	State of Environment Report	<input type="checkbox"/>	<input type="checkbox"/>	_____
17.	Sustain – Youth Environment Network	<input type="checkbox"/>	<input type="checkbox"/>	_____
18.	Sustainable Housing for the Tropics	<input type="checkbox"/>	<input type="checkbox"/>	_____
19.	Sustainable Townsville	<input type="checkbox"/>	<input type="checkbox"/>	_____
20.	Travelsmart	<input type="checkbox"/>	<input type="checkbox"/>	_____
21.	Trees for Fleet	<input type="checkbox"/>	<input type="checkbox"/>	_____
22.	Urban Stormwater Quality Management	<input type="checkbox"/>	<input type="checkbox"/>	_____

**8.2 Please rate your understanding of the main aims of each of the initiatives.**

(Please mark the appropriate boxes. Note: Numbers correspond to the initiatives in the question above e.g. 7 is EcoFiesta)

#	Very Poor	Poor	Average	Good	Very Good	Unsure	#	Very Poor	Poor	Average	Good	Very Good	Unsure
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

**8.3** How would you rate your understanding of Townsville City Council's sustainability initiatives *(Please circle a point where 0 is no understanding at all and 10 is very good understanding)*



**9. Issues and Suggested Improvements Associated with Current TCC Programs**

**9.1** Are you aware of any issues associated with Townsville City Council's sustainability initiatives? *(Please describe)*

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**9.2** Do you have any suggestions for improving the delivery of Townsville City Council sustainability initiatives? *(Please describe)*

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## 10. Preparedness to Implement Sustainable Systems and Solutions

### 10.1 Do you support in principle the following suggested sustainability concepts.

(Please mark the appropriate box)

Concept	Strongly Oppose	Oppose	Neither Oppose or Support	Support	Strongly Support
Higher costs to Council to operate environmentally friendly plant and vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
'User pays' for extra services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase in asset provision and maintenance to minimise environmental damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Park or play areas being flooded for short periods as part of a groundwater recharge system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safe recycled effluent for garden watering and/or toilet flushing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water recycling to reduce water consumption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduction in air-conditioning/energy use in preference for climate appropriate housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of public transport rather than the 'car'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A plastic bag free environment/community	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greater use of green energy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Location of social infrastructure on public transport routes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Promotion of energy efficient vehicles for less pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integrated green waste management systems and soils amelioration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tree shaded streets and open spaces for 'natural' air conditioning and sun protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Commercial buildings incorporate 5 star sustainability and energy management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 10.2 Would you support an environmental levy to help pay for the following sustainability initiatives? (Please mark the appropriate box)

# Initiative	No	Yes	Require more information
1. Remediation of old landfill sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Pest management operations in non-urban areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Purchase of environmentally significant areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Management of natural areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Studies to support sustainability planning and design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Monitoring to measure sustainability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of 'pilot' plant and demonstration projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Research into the most appropriate sustainability initiatives for local conditions in Townsville and the tropics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Purchase of licences to operate proven sustainability technology and systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Knowledge sharing networks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10.3 When considering implementation of sustainability initiatives what priority do you place on the idea of 'user pays'? (Please circle a point where 0 is no priority at all and 10 is very high priority).



10.4 What additional cost would you be prepared to pay to live in a Sustainable City?  
(Please mark the appropriate box)

- 0
- 1-3%
- 4-6%
- 7-10%
- As much as necessary

10.5 What suggestions do you have for how we as a community can pay to achieve a Sustainable City?  
(Please list and describe)

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10.6 Do you have any suggestions for how we as a community can become more sustainable without increasing costs? (Please briefly explain)

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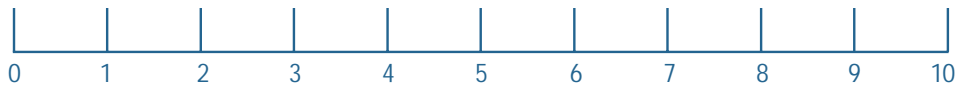
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# 11. Planning, Designing and Managing for Sustainability

11.1 What sort of role do you think the following organisations have in planning, designing and managing for sustainable outcomes for Townsville City? (Please mark the appropriate box for each organisation - If you haven't heard of the organisation or don't know what the role of the organisation is mark 'Unsure')

Organisation	Unsure	Low	Moderate	High	Lead
Australian Institute of Marine Science (AIMS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Burdekin Dry Tropics Board (BDTB)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleveland Bay Consortium (CBC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community Groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Defence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dept of Local Government and Planning (DLGP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dept of Natural Resources and Mines (DNRM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dept of Primary Industries and Fisheries (DPI)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dept of State Development and Innovation (DSD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Protection Agency (EPA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ergon Energy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Great Barrier Reef Marine Park Authority (GBRMPA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
James Cook University (JCU)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local businesses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local industry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural Resources and Environment Forum (NaREF)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NQ Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary Schools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Secondary Schools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Service Clubs e.g. Rotary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thuringowa City Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Townsville City Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Townsville Enterprise Limited (TEL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Townsville Port Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11.2 When considering planning, designing and managing for sustainability how would you rate your knowledge of the organisations involved and their roles? (Please circle a point where 0 is no knowledge or understanding at all and 10 is very high understanding).



11.3 How would you rate the following factors when considering planning, designing and managing for sustainability? (Please mark the appropriate box for each Factor)

Factor	Very Low	Low	Medium	High	V High
Ageing of the population	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biodiversity elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climatically appropriate housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Energy use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land suitability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reducing 'eco-footprint' of development i.e. minimising loss of natural values	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced use of materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Managing water catchments and drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water consumption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>