



**Redland**  
CITY COUNCIL

## Sustainable Resources from Waste Strategy

### Implementation Plan Years 1-5

### **Sustainable Resources from Waste Plan**

The vision for the Sustainable Resources from Waste Plan (Waste Strategy) is for a best practice framework to sustainably manage the waste in Redland City. It requires a whole of community responsibility and will assist individuals, community groups, businesses and the Council to take responsibility for diverting their own resources, through systems with a mix of local diversion and treatment hubs, supported by education, ongoing engagement, improved infrastructure, technologies and landfills. The following goals are reproduced from the Strategy:

<b>Programs</b>	<b>Goals</b>
Waste Minimisation	Achieve waste minimisation targets to reduce household waste generation per capita, by providing incentives to reduce waste, focusing on organics capture at source, together with a concerted effort to minimize Commercial & Industrial (C&I) waste and Construction & Demolition (C&D) waste from building activity, as well as reducing Council generated waste from its own business activity.
Resource Recovery	Increase the amount of resource recovery in Redland to national best practice over ten years. Current performance levels should be upgraded through continuous improvement and additional recycling from waste transfer stations, business and 'away from home' public recycling opportunities.
Energy Recovery	Achieve maximum practical level of recovery of available energy resources from local waste and minimize fugitive Greenhouse gas (GHG) emissions from existing waste disposal sites and waste transportation operations. A facility to produce renewable energy will be operated at Birkdale Landfill.
Residual Disposal	Select new external treatment and/or disposal infrastructure and sites based on triple bottom line environmental, social and economic performance indicators to replace Birkdale Landfill. Review opportunities for regional infrastructure during the period.

### **Targets**

Suggested voluntary Community Targets are shown below.

<b>COMMUNITY KPI TARGET</b>	<b>2010</b>	<b>2012</b>	<b>2014</b>	<b>2016</b>	<b>2018</b>	<b>2020</b>
Per Capita Domestic Waste to Landfill (kg)	<b>450</b>	430	410	390	370	350
Per Capita Kerbside Waste Generation (kg)	<b>300</b>	288	275	261	248	235
Per Capita Self Haul Waste (kg)	<b>150</b>	142	135	129	122	115

Suggested Council targets are shown below

<b>COUNCIL KPI TARGET</b>	<b>2010</b>	<b>2012</b>	<b>2014</b>	<b>2016</b>	<b>2018</b>	<b>2020</b>
Annualised reduction in waste generation per Full Time Equivalent						
% diversion from landfill by volume	<b>50*</b>	55	60	65	70	75
% diversion from landfill by mass	<b>40*</b>	45	50	55	60	65

\*To be confirmed

## **Purpose of Implementation Plan**

This Implementation Plan is designed to provide a clear “line of sight” from the strategy to action on the ground. Whilst the Waste plan is a 10 year document, the Implementation Plan is framed over five years where most detail is available now. It drills down on activities and projects that underpin the main actions listed in the Strategy.

Responding to the challenges that lie ahead in managing waste in a way that strongly aligns with the principles of environmental sustainability and sound financial planning has been identified as a key policy objective by Redland City Council. Council is also active in regional waste planning initiatives and will be required to respond to State and Federal Government waste management initiatives. This implementation plan has referenced the typical work to be done in this wider regulatory environment.

Key actions from this implementation plan have been identified for inclusion in Councils operational plan for 2010/11 and further work is planned to keep in contact with the community about how the strategy is performing.

The delivery of actions will be achieved in partnership with Waste Planning and Waste Operations including the Waste Education programme and other areas of Council such as Supply Services, Facility Services and Environmental Management. Council also needs to identify partnership approaches with the broader Redland City and South East Queensland community to gain wider ownership of the future challenges and identify solutions and collaboration initiatives. Specific Stakeholders will be identified for each project or activity and mechanisms developed to ensure appropriate engagement opportunities are provided. Any risks identified with the Implementation program will be documented, addressed and reported where necessary.

The budget required for implementation will be drawn mainly from the Waste Operations and Waste Planning areas. This includes use of the waste education budget, planned incentive programs, a contract project officer, and use of Council staff to design and run pilot programs, collect/research data and run consultative processes and administer contracts and consultancies. Future budget implications will be referred to Council for their consideration as part of the annual budget development process. It will also be important to identify the availability of any grants and other funding mechanisms to assist Council fund this implementation programme.

Ref	Action Item	Description	Year 1 2010/11	Year 2 2011/12	Year 3 2012/13	Year 4 2013/14	Year 5 2014/15
Administration/General							
0.0	Community Engagement	Develop a communications and marketing plan to engage community on the vision and objectives of the waste strategy.	Plan developed and launched	Review and modify plan as required			
0.1	Review preliminary community Waste Targets in line with pending QLD State Strategy	Draft State strategy released 5/6/10.	Regional SEQ objectives and targets to be reviewed following final State Strategy and any federal strategic actions	Review RCC strategy to adopt targets once Federal, State & regional Strategies finalised.	Design program of action to progressively reach targets		
0.2	Implement Council workplace recycling targets.	Council of Mayors project to develop a tool for measuring workplace recycling performance. Councils to input information and undertake benchmarking.  Staff engagement plan to be developed	RCC workplace baseline assessment completed. Continuous improvement actions & budget developed over 10 years in consultation with facility services & staff.	Progressive roll-out of improvements pending budget approval.			
0.3	Review/update Litter strategy		Receive handover report on areas where litter strategy has performed well and areas which need improving. Prioritise actions	Partnership with State (as per their draft strategic action) to identify litter and illegal dumping hot spots and response mechanism.	Review any updated info based on proposed State Govt litter prevention strategy	Review RCC litter strategy if required.	

Ref	Action Item	Description	Year 1 2010/11	Year 2 2011/12	Year 3 2012/13	Year 4 2013/14	Year 5 2014/15
0.4	Major Statutory Review of Strategy	Reviews	Interim reviews pending outcomes of State and Federal Govt implementation plan	Interim reviews pending outcomes of State and Federal Govt implementation plan		Major review undertaken	
		RCC Advocacy	Ongoing advocacy of RCC and region for information to State and Federal strategy implementation stakeholder/reference groups. Includes continuous improvement initiatives and obtaining financial assistance to implement strategies that are consistent with State and Federal objectives.				
0.5	Prepare Annual Waste Reports to DERM	Statutory report	Annual report	Annual report	Annual report	Annual report	Annual report
		Trial pilot SEQ Council of Mayors database	Assess suitability of a draft SEQ database system to allow for better data reporting and benchmarking across region	Refinement and adoption or review			
0.6	Provide public feedback on performance against strategy implementation.	Prepare and distribute summary strategy	Finalise ongoing communication plan				
		Develop regular electronic newsletter to those registered aiming to increase ownership of waste issues in Redlands	Develop first newsletter in consultation with waste education officer	Continued roll out			
		Develop Newspaper column – monthly with activities and figures	Develop format and bookings for layout	Continued roll-out			
Waste Minimisation							
1.1	Re-develop waste education material	Development of regional educational toolbox	Participate in regional sharing of education resources				
		Develop A-Z resource recovery guides	Guide developed	Guide launched			
		Update website		Update website			
		Develop Cllr information packages to enable Cllrs easy access to key info		Information packages developed & distributed			Updated packages issued.

Ref	Action Item	Description	Year 1 2010/11	Year 2 2011/12	Year 3 2012/13	Year 4 2013/14	Year 5 2014/15
1.1 cont	Continued ... Re-develop waste education material	Develop a schedule for community bus tours to waste & resource recovery sites to educate on key messages.	Work underway and finalise in year 1				
		Annual school forum through YCP –annual forum to enable students and teachers to share information and celebrate waste minimisation	Determine suitable event to link this into eg world environment day or national recycling week				
		Tenancy Packages – provide real estates with householder information packages for new tenants in Redlands	Work underway and finalise in year 1				
		Tourist information packages – rentals and onsite managers – to provide recycling information to holiday makers	Work underway and finalise in year 1				
		Survey of needs in educational institutions	First year of survey				
		State household waste avoidance strategy	Commence work with State and other stakeholders to increase consumer awareness to reduce wasteful consumption				
		Internal sustainable education group to be finalised to integrate waste messages across all of Council education	Internal group to identify terms of reference & common projects and expansion of education messages in consultation with waste education				

Ref	Action Item	Description	Year 1 2010/11	Year 2 2011/12	Year 3 2012/13	Year 4 2013/14	Year 5 2014/15
1.1 cont	Continued ... Re-develop waste education material	Develop examples of working composters and worm farms at Indigiscapes	Establishment of working organics units at Indigiscapes	Ongoing use of different types of composters and worm farms at community displays and events			
1.2	Develop sustainable procurement policy and Council Operations Resources Guide for reuse of recycled products according to published standards	Obtaining a policy that allows for recycled content in products Council purchases or recycled product substitutes.	Investigate update on RCC sustainable procurement strategy (under development)	Finalised Council of Mayors project on sustainable procurement & how impacts on RCC	Roll out sustainable procurement initiatives		
1.3	Require Waste Management Plan with all Development Applications with targets for recovery of construction and demolition (C&D) waste.	Engagement with developers about the future challenges of waste and production of a guide on how C&D waste can be recovered. Conditioning of new DA's with targets for recovery of C&D waste.	Guide produced on where C&D material can be recycled & distribution to developers and builders	Implementation of new conditions for C&D recovery with Development applications			
1.4	Develop a practical support system for home composting/worm farms and waste minimisation including at special events.	Pilot a number of properties to focus on waste minimisation and increased organics management		Review smaller trial pending outcome of incentives program planned for 10/11.			

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1.4 cont	Continued ...Develop a practical support system for home composting/worm farms and waste minimisation including at special events.	Develop an organics hotline and or worm surgeries where Council can visit homes in trouble (like Dr Harry) and offer practical assistance		Planning phase	implementation		
		Adopt guidelines for recycling and composting at special events	Suitable guidelines adopted and promoted alongside permit requirements for use of Council space				
1.5	Expand infrastructure for new resource streams such as electronic-waste at existing infrastructure.	Design new infrastructure to accommodate new resource recovery streams eg e waste,	Develop programme of minor infrastructure improvements for all operational sites	Staged Implementation of improvements subject to budget approval			
1.6	Develop incentives program for implementing strategy	Provide Incentives to downsize to a smaller 140 l bin	Promotional material developed and system established for admin and implementation	Evaluation and recommendations			
		Provide incentives for clean segregated greenwaste at sites to offset gate fees	Promotional material developed and system established for admin and implementation	Evaluation and recommendations			

## Resource Recovery

2.1	Invest in new public area recycling collection points to promote "away from home" recycling	Develop 10 year public place recycling implementation plan for streetscapes, parks and other public points.	Progressive roll-out of new infrastructure				
2.2	Review local and regional markets for green organics, including trials, processing options and partnerships according to existing Council policies eg Community gardens.	Investigate partnership opportunities for greenwaste processing at sites within the Redland City		Review State draft action outcomes on market development with organics industry	Investigate partnership opportunities		



Ref	Action Item	Description	Year 1 2010/11	Year 2 2011/12	Year 3 2012/13	Year 4 2013/14	Year 5 2014/15
2.2 cont	Continued ...Review local and regional markets for green organics, including trials, processing options and partnerships according to existing Council policies eg Community gardens.	Pilot a community Mulching trial to develop markets amongst residents using their own green waste		Review pending outcome of incentives planned for 10/11.			
		Investigate mulching trial Russell Island	Mulching trial conducted + evaluation and feedback	Review of opportunities for other island sites			
		Hold Organics forum for all stakeholders to produce organics plan	forum held				
		Community gardens	Support any Council and State initiatives as opportunities arise to reduce food and garden waste disposed of to landfill.				
2.3	Review requirement for sites for dredge materials and other construction wastes to facilitate re-use;	Review suitable opportunities as part of masterplanning process of existing sites.			Commence review of opportunities		
2.4	Investigate kerbside collection options to increase diversion of organic and inorganic resources from household bins in time for next collection contract.	Collection contract review		Keep informed of opportunities for State trials of organic collections	Continue review for kerbside organics bins as part of new collection contract development		
2.5	Develop infrastructure plans for all sites for best practice resource recovery and residual waste management investigate potential for community groups to have wider access to resources e.g Men's Sheds/social enterprises and review all suburb access and service levels	Infrastructure Plan – covering long term upgrades of facilities including a review of material recycling facility and education facility location – also considering regional infrastructure collaboration.	Commence planning phase for high priority infrastructure	Staged Design and procurement subject to budget			

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2.6	Extend recycling services at Island Transfer Stations and review service levels across all sites e.g. opening hours, hazardous household waste collections	Review opportunities to assist NSI business increase recycling either at waste transfer station or other locations on island	Audit industrial bins from NSI and analysis of recycling options for businesses.				
		Infrastructure Plan	Develop programme of minor infrastructure improvements for all operational sites Complete upgrade of Russell Island and Macleay island transfer stations	Staged Implementation of improvements subject to budget approval			
2.7	Review options and information requirements for assisting business and industry increase resource recovery	Pilot a community “reverse garbage” market at a community hall for businesses and community groups	Marketing and development of a pilot project. Assistance to raise awareness of proposed State resource exchange register and other business waste avoidance programs.	Evaluation and assessment of success & future recommendations & other opportunities for business			
<b>Energy Recovery</b>							
3.1	Review the feasibility of modular and large scale Alternative and Energy from Waste (EfW) Technology and Local Opportunities		Ongoing review of technology performance and development and application to RCC as part of wider regional collaboration projects.				

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<b>Residuals Disposal</b>							
4.1	Maximise landfill life and develop landfill closure plans, and master plans	Birkdale Landfill Closure End Use Strategy	Commence end use strategy				
		Develop Giles Road Landfill Master Plan	Commence masterplanning				
		Develop end use strategy for South Street			Commence end use strategy		
		Develop Redland Bay masterplan					Commence masterplanning for closed landfill area
4.2	Undertake a Life Cycle Assessment of waste disposal services available to optimise the disposal of residual waste.	Evaluate waste disposal service options	Finalise life cycle assessment for residual waste				