



Roads to Reuse

Online Information Session: Local Government

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Waste Avoidance and Resource Recovery Strategy 2030



VISION

Western Australia will become a sustainable, low-waste, circular economy in which human health and the environment are protected from the impacts of waste.

OBJECTIVES AND TARGETS

Avoid	Recover	Protect
<i>Western Australians generate less waste.</i>	<i>Western Australians recover more value and resources from waste.</i>	<i>Western Australians protect the environment by managing waste responsibly.</i>
<ul style="list-style-type: none"> 🎯 2025 – 10% reduction in waste generation per capita 🎯 2030 – 20% reduction in waste generation per capita 	<ul style="list-style-type: none"> 🎯 2025 – Increase material recovery to 70% 🎯 2030 – Increase material recovery to 75% 🎯 From 2020 – Recover energy only from residual waste 	<ul style="list-style-type: none"> 🎯 2030 – No more than 15% of waste generated in Perth and Peel regions is landfilled 🎯 2030 – All waste is managed and/or disposed to better practice facilities

FOCUS MATERIALS

Construction and demolition waste; organics; metals; paper and cardboard; glass: packaging and containers; Plastics: packaging and containers; textiles; hazardous waste

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C&D waste

C&D WASTE

- around half of Western Australia’s waste stream
- opportunity to recover and use significant quantities of material

RECOVER TARGETS		
<ul style="list-style-type: none"> ○ 2025 – Increase material recovery to 70% ○ 2025 – All local governments in the Perth and Peel region provide consistent three bin kerbside collection systems that include separation of FOGO from other waste categories ○ 2030 – Increase material recovery to 75% ○ From 2020 – Recover energy only from residual waste 		
Waste generators		Waste managers*
Community	Government and industry	Waste industry
<ul style="list-style-type: none"> ○ 2020 – Increase MSW material recovery to 65% in the Perth and Peel regions, 50% in major regional centres ○ 2025 – Increase MSW material recovery to 67% in the Perth and Peel regions, 55% in major regional centres ○ 2030 – Increase MSW material recovery to 70% in the Perth and Peel regions, 60% in major regional centres 	<ul style="list-style-type: none"> ○ C&I sector – Increase material recovery to 70% by 2020, 75% by 2025, 80% by 2030 ○ C&D sector – Increase material recovery to 75% by 2020, 77% by 2025, 80% by 2030 	<ul style="list-style-type: none"> ○ 2030 – All waste facilities adopt resource recovery better practice

* Includes local government, private industry and state entities.

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Headline Strategy 3: Procurement / market development

HEADLINE STRATEGY 3: Implement sustainable government procurement practices that encourage greater use of recycled products and support local market development.

OPPORTUNITIES TO SUPPORT MARKETS FOR RECYCLED MATERIALS

- Construction projects - C&D materials, glass, rubber, organics, and plastics

WASTE STRATEGY ACTION PLAN: In 2019, MRWA will work with the Waste Authority and DWER to pilot Roads to Reuse on the Kwinana Freeway Northbound Widening Project from Russell Road to Roe Highway or a similar project, using approximately 25,000 tonnes of recycled construction and demolition (C&D) waste as road base.

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Roads to Reuse

ROADS TO REUSE

- encourages the use of recycled C&D products in civil applications, such as road construction
- supports the supply of recycled C&D products to the market which meets a product specification to protect public health and environment.



KEY ELEMENTS

Roads to Reuse Product Specification

- designed to protect human health and the environment
- applies to recycled road base and recycled drainage rock.

Product Testing Scheme

- support C&D recyclers with the cost of producing material in accordance with the Roads to Reuse product specification

Independent auditing regime

- audit of C&D recyclers' processes and products
- provides an additional level of assurance to purchasers of recycled C&D products.

2. Authorised product use

This product specification provides for the use of recycled road base and recycled drainage rock by end users as detailed in Table 1 below.

Table 1: Recycled construction product applications

Product	Authorised use
Recycled road base	As sub base or base course in road and pavement construction and other hardstand areas such as footpaths and car parks for urban residential, public open space and commercial and industrial land uses only.
Recycled drainage rock	As pipe bedding in underground projects for urban residential, public open space and commercial and industrial land uses only. As drainage rock in civil drainage infrastructure.

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Roads to Reuse Pilot

ROADS TO REUSE PILOT

Aim

- determine the suitability of the Roads to Reuse Product Specification and the accompanying testing and auditing regime.
- determine Main Roads WA's preparedness to use Roads to Reuse products.
- deliver a successful pilot to instil confidence in the sector about the use of recycled C&D products.

MRWA Commitment

- use 25,000 tonnes of recycled C&D products in the Murdoch Drive Connection and Kwinana Freeway Widening project - subbase under full depth asphalt.

Partners

- Waste Authority, DWER, Main Roads WA, Waste and Recycling Industry Association WA (WRIWA), with support from the Department of Health



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Roads to Reuse Pilot

DELIVERY

C&D Recyclers

- the Waste Authority and DWER worked with the WRIWA to engage industry and encourage participation in the pilot.
- two C&D recyclers, Urban Resources (Ashley Rd, Hope Valley) and Waste Stream Management (Ratcliffe Rd, Medina), applied to participate in the pilot.

Auditor (Senversa)

- developed an audit process and undertook audits through the production phase
- confirmed compliance of the recyclers' processes and product

Main Roads WA

- worked with contractors to use over 30,000 tonnes of recycled C&D product.



Thank you

Further information

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