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The benefits of Waste Management Planning for a more Circular Economy

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“There is no such thing as waste – just material in the wrong place”

Rubbish Theory - The Creation and Destruction of Value, M. Thompson 1979.



Whether at a tenancy, building or precinct level, having the right waste systems and facilities is critical.

- ✓ Operational Efficiency
- ✓ Health and Safety
- ✓ service optimisation
- ✓ materials recovery

>75% diversion from landfill

Drivers for a more Circular Economy



- ✓ Operational Waste Planning Requirements
- ✓ Green finance
- ✓ Market position – Recognised Value
- ✓ Efficiency

Operational Waste Planning – Project examples










Deloitte Centre

1 Queen Street,
Commercial Bay, Auckland

- 21 Level building over a shared basement
- Hotel, Office and Retail outlets (incl Food and Beverage)

Developing an OWMP that delivers operational efficiencies and increases diversion

- Accommodation of additional waste volumes within an existing waste room
- Separation of waste into five core streams plus various extended waste streams
- Increase in typical diversion from around 50% to 75%+

				
Hotel	Office	Retail	Retail (F&B)	Retail (Bar)
75%	65%	76%	74%	84%



NZ Cyclotron

Confidential location, Auckland

- Building with hazardous substance controls
- Laboratory and office spaces

Developing an OWMP that provides a safe systems for waste management and hazardous substances.

- Waste categorised as either;
 - General Waste (Non-hazardous): three core streams plus extended waste streams
 - Healthcare Waste
 - Hazardous Waste
- Separation of key waste streams and management by category
- Maximising diversion while also managing key risks associated with waste products, including use of specialised contractors and isolation areas.



Upper West Side

220 Spencer St, Melbourne

- 3 Mixed use towers
- 2,000 apartments



Before

- Larger footprint (more bins)
- Higher collection costs (more trucks)
- Higher staffing requirements
- Higher risk of injury (manual handling)



After

- Smaller spatial footprint
- Fewer collections (less trucks, less cost)
- Less operations staff
- Safer spaces
- Opportunities for utilisation of free space



Shoalhaven Hospital Redevelopment

Shoalhaven, NSW

- Public hospital expansion project (under construction)
- increasing from 215 to 415 beds.

OWMP inclusive of:

- Relocation of the hospital loading dock from the existing building to the new building
- construction & demolition activities
- waste volumes (both existing and forecast)
- clinical waste management
- internal fitout and loading dock operation

Good waste management and logistics planning can significantly reduce operating costs and carbon emissions via optimised collection vehicle arrangements, while also improving operational efficiencies.

Roadmap for a Circular Economy

- ✓ Operational Waste Planning – Understanding the sources and systems to manage materials and capture valuable resources
- ✓ Innovative Design – Early engagement, considering design materials, fit-out and services to inform material opportunities at end-of-life
- ✓ Good data and digital tools to manage materials throughout lifecycle

Thanks and further contacts

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CAROLE SMITH

Technical Director - Environment

Carole has over 30 years of experience in the industry. She is experienced at building and leading cross-disciplinary environmental specialist teams to deliver infrastructure and advisory projects and programmes



ROWAN LATHAM

Principal Waste Consultant

Rowan is a Principal Waste Consultant with over 12 years Local Government experience across the UK, Australia and New Zealand. His expertise across waste operations, policy and strategic planning support innovative waste and resource recovery projects.



MAREE MARSHALL

Director & National Lead

Maree leads the Australian team and is an Engineer with 25 years of experience in waste management, working in both government and private sectors.



VALENTINA PETRONE

Associate Director & Circular Economy Lead

Valentina is the Circular Economy Lead for Australia and New Zealand with over 15 years of industry experience in Circular Economy and Waste Management.