

## SECTION 1

# ESTIMATED NEED FOR WASTE AND RECYCLING 'IN BUILDING' FACILITIES

South East Wales Regional Waste Group  
Discussion Paper  
Areas of Search for In-Building Facilities: The Way Forward

### Calculating Land Area Required

MRF	In-vessel Composting	C&D / Soil / Inert Reprocessing Facility	MBT	Energy from Waste + Other Thermal Treatment	Chemical Treatment Facility + Physical Treatment Facility	Other Transfer	Total
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### Caerphilly

Step 1	Existing Capacity (tpa)	23,250	0	0	0	0	0	265,554	288,804
	Required Capacity (tpa)	227,160	48,736	234,220	67,442	332	10,947	58,957	647,794
	Additional Capacity Required (tpa)	203,910	48,736	234,220	67,442	332	10,947	0	565,587
Step 2	Capacity Contribution to Region (tpa)	0	0	0	0	0	0	58,463	58,463
	Adjustment 'A' for Relative Capacity Contribution to Region (tpa)	5,707	1,364	6,555	1,887	9	306	0	15,829
	Additional Capacity Required after Adjustment 'A' (tpa)	209,616	50,100	240,775	69,329	342	11,253	0	581,416
	Adjustment 'B' for Facility Type Regional Capacity Required (tpa)	-399	-353	379	155	-180	0	0	-399
	Additional Capacity Required after Adjustment 'B' (tpa)	209,217	49,747	241,154	69,484	162	0	0	569,763
Step 3	Additional Facilities Required	13.9	5.0	8.0	1.2	0.0	0.0	0.0	N/A
Step 4	Additional Facilities Serving LA Area Required	13.0	4.0	8.0	1.0	0.0	0.0	0.0	26.0
	Additional Facilities Serving >1LA Area Required	0.9	1.0	0.0	0.2	0.0	0.0	0.0	N/A
Step 5	Land Area Required for Additional Facilities Serving LA Area (m2)	34,125	60,000	27,000	10,000	0	0	0	131,125
	Land Area Required for Additional Facilities Serving LA Area (ha)	3.4	6.0	2.7	1.0	0.0	0.0	0.0	13.1
	Land Area Required for Additional Facilities Serving >1LA Area, +50% (m2)	3,732	21,932	195	2,371	91	0	0	28,320
	Land Area Required for Additional Facilities Serving >1LA Area, +50% (ha)	0.4	2.2	0.0	0.2	0.0	0.0	0.0	2.8