

TABLE 1: COMPARISON OF THE PERMITTED RCF SCHEME AND eRCF APPLICATION

RCF – eRCF Comparison	RCF	eRCF	Notes:
Total Site Area (ha)	25.3	25.3	Site application boundary is the same.
Total Building Area (ha)	5.65	6.63	
Waste Recovery, Recycling & Treatment Processes:			
AD	x	x	RCF has six AD tanks, eRCF has three. eRCF uses other technologies to recover, recycle and treat waste.
MRF	x	x	Common feature of the RCF and eRCF.
MBT	x	x	RCF biostabilises waste to produce a Compost Like Output, eRCF biodries the waste to produce SRF.
CHP		x	eRCF integrates a CHP plant.
Pulp Facility		x	eRCF integrates a Pulp Facility which recycles waste paper and card into reusable pulp.
Waste Waster Treatment Facility	x	x	Common feature of the RCF and eRCF.
Biofilters	x		eRCF uses air collected from the process buildings as combustion air within the CHP.
Biogas Generator Engines	x	x	RCF has eight, eRCF has four. eRCF uses other treatment technologies than that of AD for the treatment of waste.
Biogas Flare	x	x	Common feature of the RCF and eRCF. The flare is required when biogas generators are down, 10 m in height.
Woodhouse Farm Visitor & Education Facility	x	x	Common feature of the RCF and eRCF.
Common Processes & Operational Details:			
Biogas Flare	1 or 2	1	Common feature of the RCF and eRCF. The flare is required when biogas generators are down, 10 m in height.
Biogas Generators (No)	7 or 8	4 or 5	eRCF uses a wider range of treatment processes than just AD.
Minimum Height of Biogas Generator Exhaust (m)	15	-	eRCF uses CHP stack to exhaust.
AD tanks (No)	6	3	eRCF has fewer AD tanks which are used to treat MOW and/or similar C&I wastes.

RCF – eRCF Comparison	RCF	eRCF	Notes:
Common Processes & Operational Details:			
Gasometers (No)	1	1	Common feature of the RCF and eRCF.
Car Parking Spaces (No)	60	60	Common feature of the RCF and eRCF.
Approximate Employment (No)	50	50	Common feature of the RCF and eRCF.
Waste Imports:			
MDR and/or C&I (tpa)	-	100,000	eRCF would treat and recycle selected paper and card within the Pulp Facility.
MOW and/or C&I (tpa)	-	85,000	eRCF's AD plant would treat MOW and/or C&I to produce compost.
MSW and/or C&I (tpa)	510,000	250,000	eRCF would treat a wider range of waste streams.
SRF (tpa)	-	87,500	eRCF would import SRF manufactured by other MBT facilities for use as a fuel in the CHP.
Selected paper & card (tpa)	-	331,000	eRCF would treat selected waste paper and card to produce a recycled pulp suitable for reuse.
Recovered, Recycled or Residual Material Exports:			
Recyclates (tpa)	113,146	46,000	Difference in waste streams results in the RCF recovering greater quantities of glass and aggregate from a greater MSW and/or C&I waste stream.
Recycled Paper Pulp (tpa)	-	198,000	eRCF recycles waste paper and card into reusable paper pulp.
Compost (tpa) - (Suitable for Quarry Reclamation or Landfill)	106,752	-	RCF produces a biostabilised Compost Like Output suitable for quarry restoration.
Compost (tpa) - (Suitable for Agricultural Uses)	-	55,000	eRCF produces compost suitable for agricultural uses.
Landfill Residues (tpa)	21,128	42,500	RCF landfill residues exclude Compost Like Output.
Ash & Residues (tpa)	-	75,075	eRCF would produce 18,900 tpa of 'fly ash' for disposal, the 'bottom ash' could be used as a secondary aggregate.
SRF (tpa)	155,680	-	RCF produces SRF for export to a suitable treatment facility or market use (i.e. cement kilns).

RCF – eRCF Comparison	RCF	eRCF	Notes:
Vehicle Movements (per day):			
Vehicle Movements In (Waste):	107	138	The traffic movements would not increase from those already permitted for the RCF because of the integration of a CHP plant within the eRCF which would result in fewer materials being transported off site.
Vehicle Movements Out (Recovered, Recycled or Residual Materials):	95	64	
Service Deliveries:	3	3	Common feature of the RCF and eRCF.
Visitors:	6	6	Common feature of the RCF and eRCF.
Staff:	35	37	RCF and eRCF allows for staff car sharing to travel to and from the Site.
Recovery, Recycling & Treatment Process Capacity:			
MDR and/or C&I (tpa)	-	100,000	
MOW and/or C&I (tpa)	-	85,000	
MSW and/or C&I (tpa)	510,000	250,000	
Paper & Card (tpa)	-	360,000	eRCF Pulp Facility would be used to treat 29,000 tpa of selected paper and card from recovered by the MRF and MBT.
SRF (tpa)	-	87,500	
Integrated Recovery, Recycling & Treatment Process Capacity:			
AD (tpa)	262,285	85,000	RCF AD treats only the organic fraction of imported waste stream.
MRF (tpa)	510,000	287,500	eRCF MRF used to process outputs from the MBT.
MBT (tpa)	510,000	250,000	
CHP (tpa)	-	360,000	eRCF has up to four 90,000 tpa boilers.
Pulp Facility (tpa)	-	360,000	eRCF Pulp Facility would be used to treat 29,000 tpa of selected paper and card from recovered by the MRF and MBT.
Maximum Payload for Vehicles:			
Refuse Collection Vehicles	7.5	-	eRCF could receive local Refuse Collection Vehicles (RCVs) by implementing back haul operations on certain waste/recyclate streams.
HGV Bulk Artics	24	25	Transfer Stations would be used to bulk waste into larger vehicles for onward transportation to the eRCF.

RCF – eRCF Comparison	RCF	eRCF	Notes:
Energy Produced by Processes:			
AD (MW)	8	3	
CHP (MW)	-	46	eRCF uses SRF as a fuel for the CHP plant to produce electricity, heat and steam.
Energy Required by Processes:			
MRF (MW)	1	0.6	
AD (MW)	2	1	
MBT (MW)	1.3	2	
Water Treatment (MW)	1.7	1.7	
Pulp Facility (MW)	-	16.6	eRCF uses electricity, heat and steam from the CHP plant within the Pulp Facility.
CHP (MW)	-	6	
Woodhouse Farm (MW)	0.1	0.1	
Weighbridges (MW)	0.05	0.05	
Site Services (MW)	0.05	0.05	
Net Energy Balance (MW)	1.8	20.9	eRCF would produce more electricity for export to the local supply network.
Water Usage:			
Net Water Balance (m ³ per day)	0	-120.6	eRCF shortfall would be made up by either 'New Field Lagoon' or licensed surface water abstraction.
Loss of Agricultural Land:			
Bradwell Hall Estate (ha)	-0.5	-0.5	No change between the RCF and the eRCF.
Woodhouse Farm (ha)	-11.5	-11.5	No change between the RCF and the eRCF.
Lost Habitats & Ecological Mitigation:			
Loss of Woodland (ha)	-1.6	-1.6	No change between the RCF and the eRCF.
Planted Woodland Areas (ha)	2.2	2.2	No change between the RCF and the eRCF.
Additional Areas of Woodland (ha)	-	1.2	Change between the RCF & eRCF.
Loss of Scrub Habitat (ha)	-0.6	-0.6	No change between the RCF and the eRCF.

Statement of Common Ground

RCF – eRCF Comparison	RCF	eRCF	Notes:
Loss of Hedgerow (m)	260	260	No change between the RCF and the eRCF.
Planted Hedgerow (m)	2000	2000	No change between the RCF and the eRCF.
Loss of Open Habitat (ha)	-19.1	-19.1	No change between the RCF and the eRCF.
Planted Area of Species Rich Grassland (ha)	-	1.2	Change between the RCF and the eRCF.
Bat Boxes (No)	12	12	No change between the RCF and the eRCF.
Barn Owl Boxes (No)	1	3	Change between the RCF & eRCF.
Wetland Habitat around Upper Lagoon	x	x	No change between the RCF and the eRCF.
Additional Open Habitat (ha)	-	0.6	Change between the RCF & eRCF.
Noise Limits (dB L_{Aeq} 1 hour):			
Herring's Farm	45	45	No change between the RCF and the eRCF.
Deeks Cottage	45	45	No change between the RCF and the eRCF.
Haywards	45	45	No change between the RCF and the eRCF.
Allshot's Farm	47	47	No change between the RCF and the eRCF.
The Lodge	49	49	No change between the RCF and the eRCF.
Sheepcotes Farm	45	45	No change between the RCF and the eRCF.
Greenpastures Bungalow	45	45	No change between the RCF and the eRCF.
Goslings Cottage	47	47	No change between the RCF and the eRCF.
Goslings Farm	47	47	No change between the RCF and the eRCF.
Goslings Barn	47	47	No change between the RCF and the eRCF.
Bumby Hall	45	45	No change between the RCF and the eRCF.
Parkgate Farm Cottages	45	45	No change between the RCF and the eRCF.
Nuisance Control:			
Operations within Environmentally Controlled Buildings	x	x	No change between the RCF and the eRCF.
Import and Export using Enclosed Vehicles	x	x	No change between the RCF and the eRCF.
Closed Loop Treatment:			
Provision of 'closed loop' recovery, recycling and treatment process	No	Yes	