



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Innovative waste service delivery model: The case of City of Cape Town

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Making progress possible. **Together.**

PRESENTATION OVERVIEW

Facilities and Services

Waste Diversion Data

Separation and Source

Integrated Waste Management Facilities

Community Recycling Centres

Low income areas- Waste Diversion model

Landfill Gas

Partnerships and Awareness

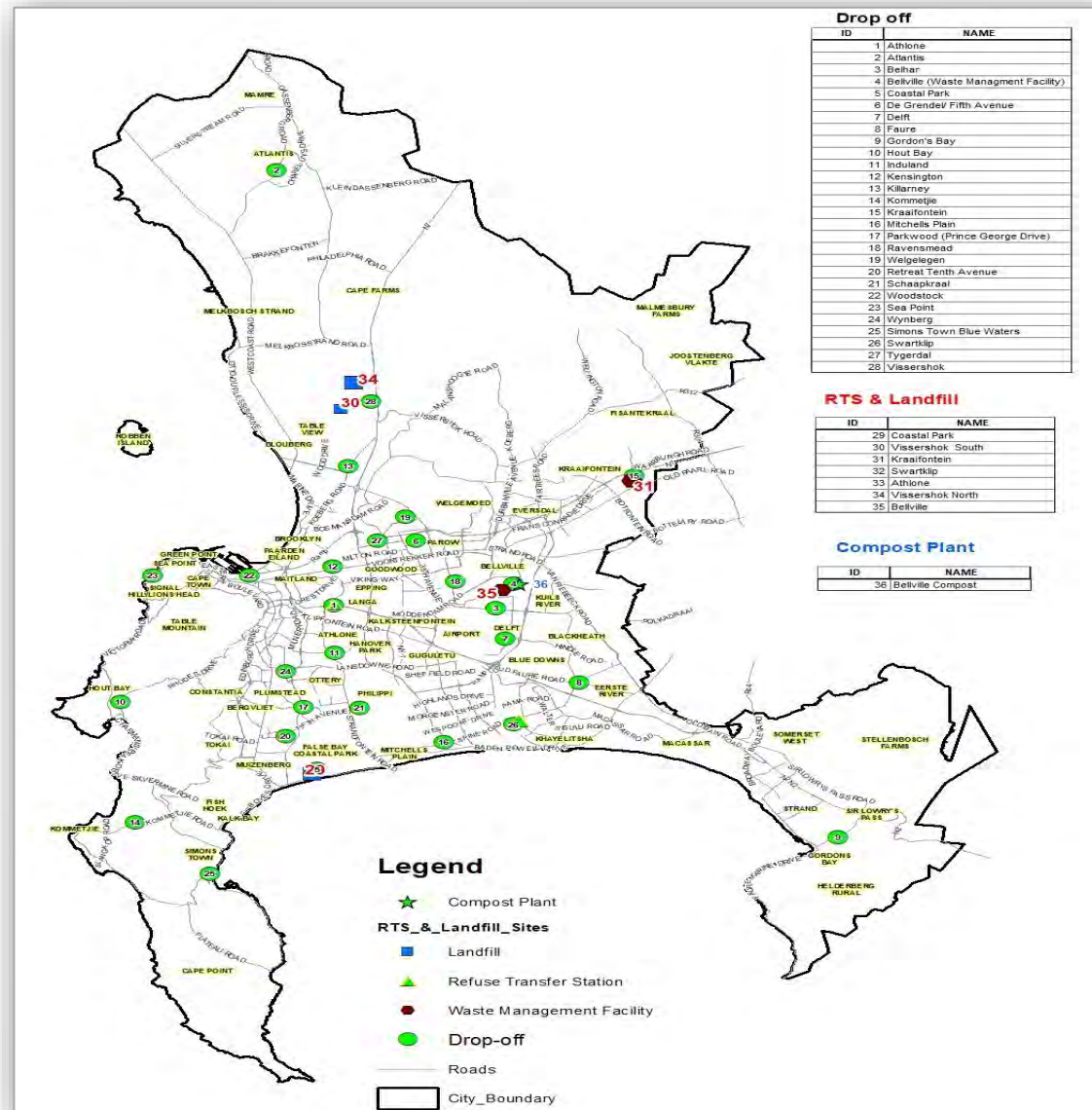
FACILITIES AND SERVICE OVERVIEW

Waste Services

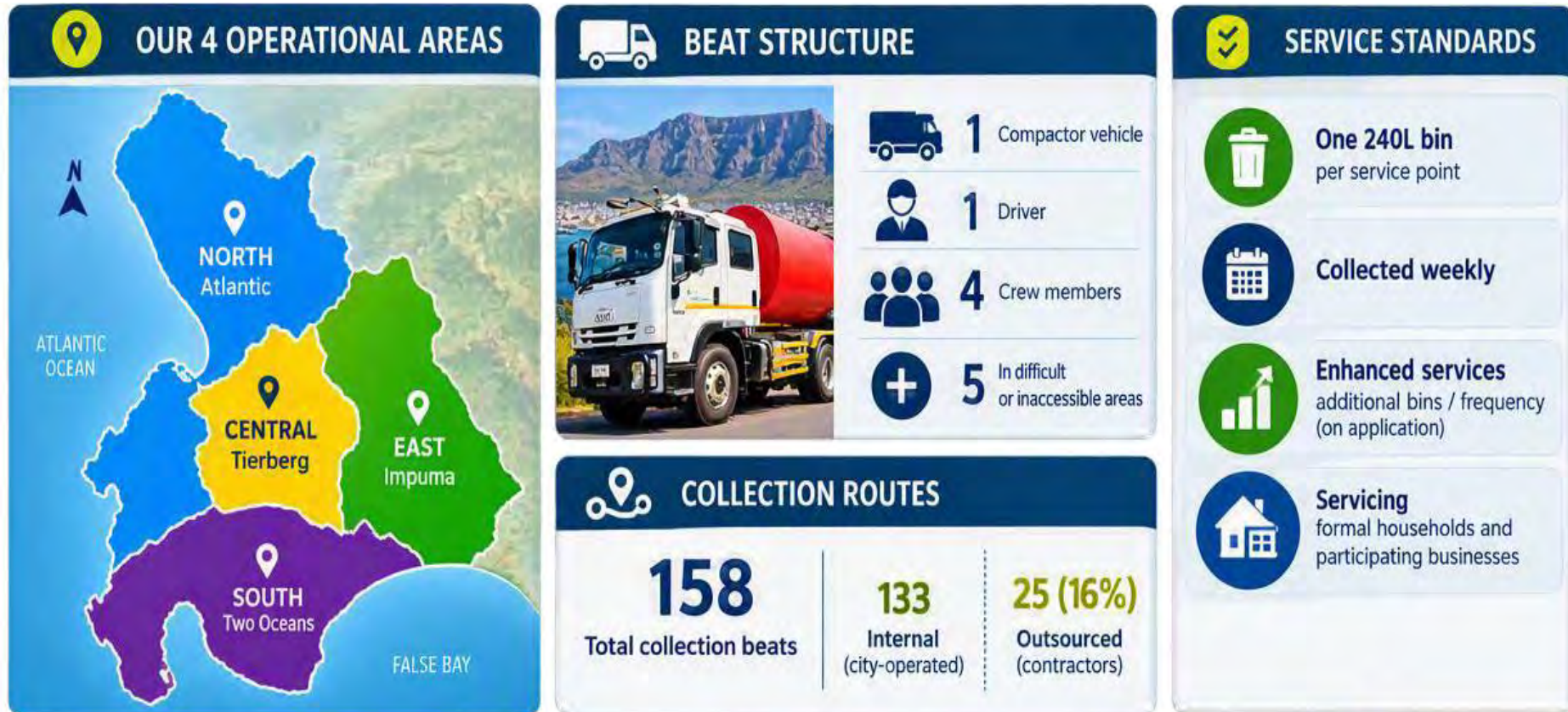
- Collections – Formal areas (224 RELs)
- (Lessons learnt; issuing of bins vs increased service at high density area)
- Cleansing – Informal
 - areas (contracted)
 - - Illegal dumping
 - - Street / Beach cleaning
- (Exploring technology to improve cleanliness in informal settlements)
- Disposal
- Waste Minimisation

Waste Facilities

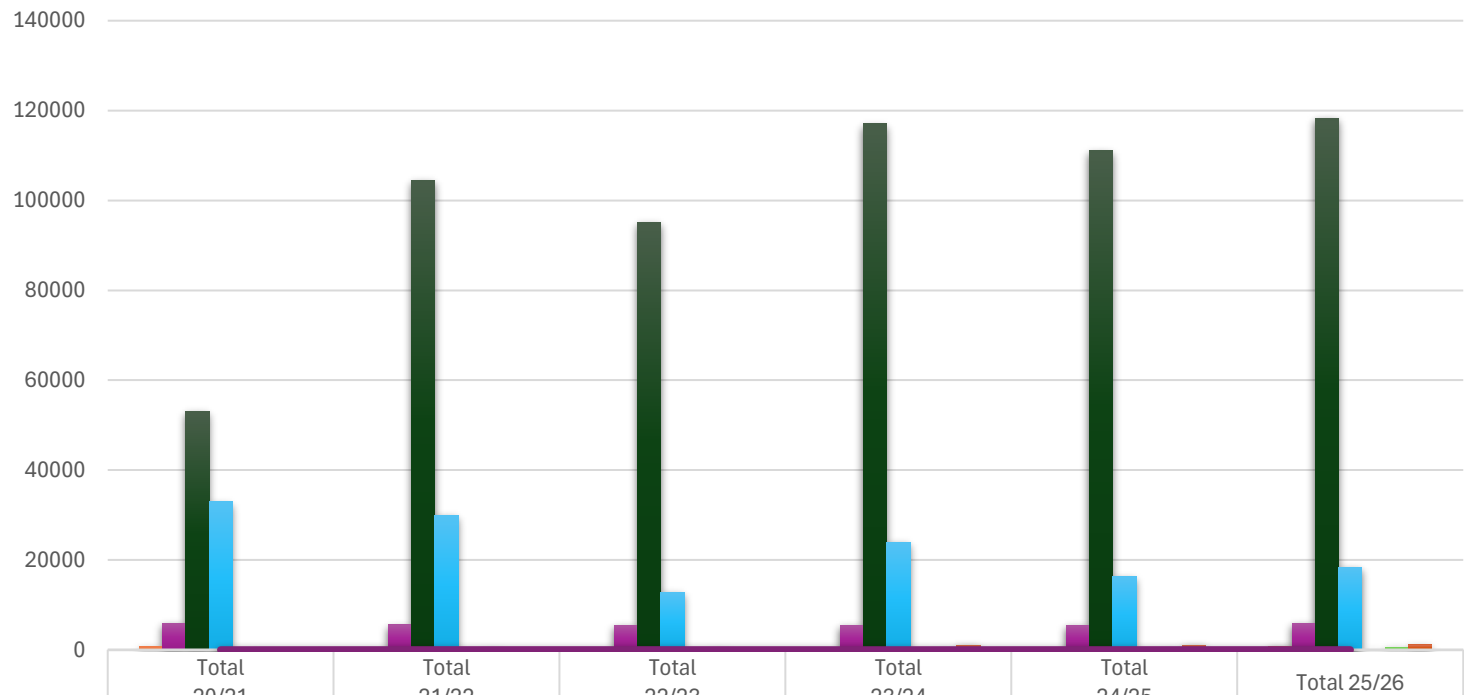
- Drop-offs 28 (21 + 7)
- Transfer Stations 4
- MRFs 2
- Landfill sites 2
- Composting Plant 1



COLLECTIONS MODEL



WASTE DIVERSION DATA



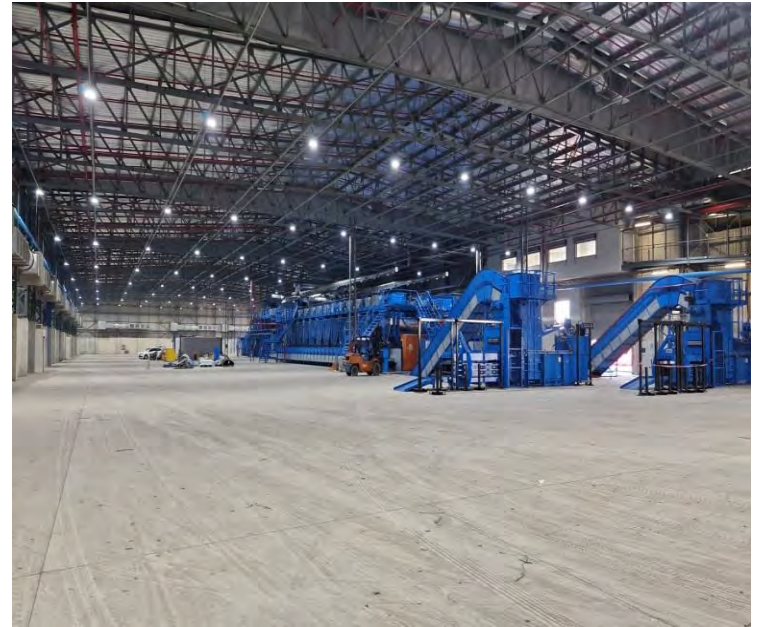
Composting Bellville	Total 20/21	Total 21/22	Total 22/23	Total 23/24	Total 24/25	Total 25/26
Recyclables from Drop offs	741.99	0	0	0	0	804
Chipping	5977	5565	5500.2	5467	5465	5965
Think Twice	53077	104535	95091.0	117073	111053	118316.338
City Paper Project	32936	30001	12870.3	23899	16295	18414
Damaged Refuse Bins (Recycled plastic)	84	50	73.4	101	95	121
SCM Scrap metal	93	126	162.8	167	158	594
percentage waste diverted				1050	1080	1104.701
	14%	21%	19%	32%	28%	29%

SEPARATION AT SOURCE- THINK TWICE PROGRAMME

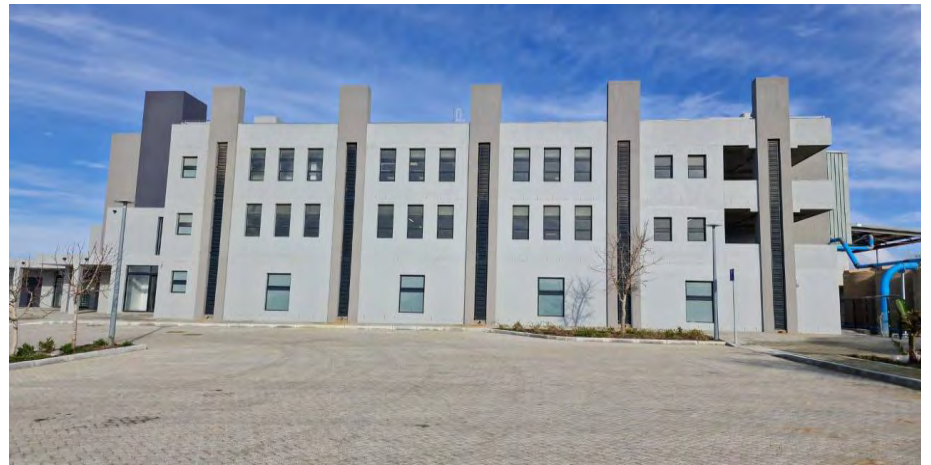


- Source separation contracts
- Clear bags / 140l wheelie bins (recyclables collected and sorted)
- Contracted areas indicated on map
- A key achievement was the expansion of the Kraaifontein Integrated Waste Management Facility catchment area with additional 12000.
- The Coastal Park MRF - additional 26 000 service points
- Total **224 982**
- Cost per ton varies per area (R1600/R5000 per Ton)
- **Lessons: bag vs bin; Collection day**

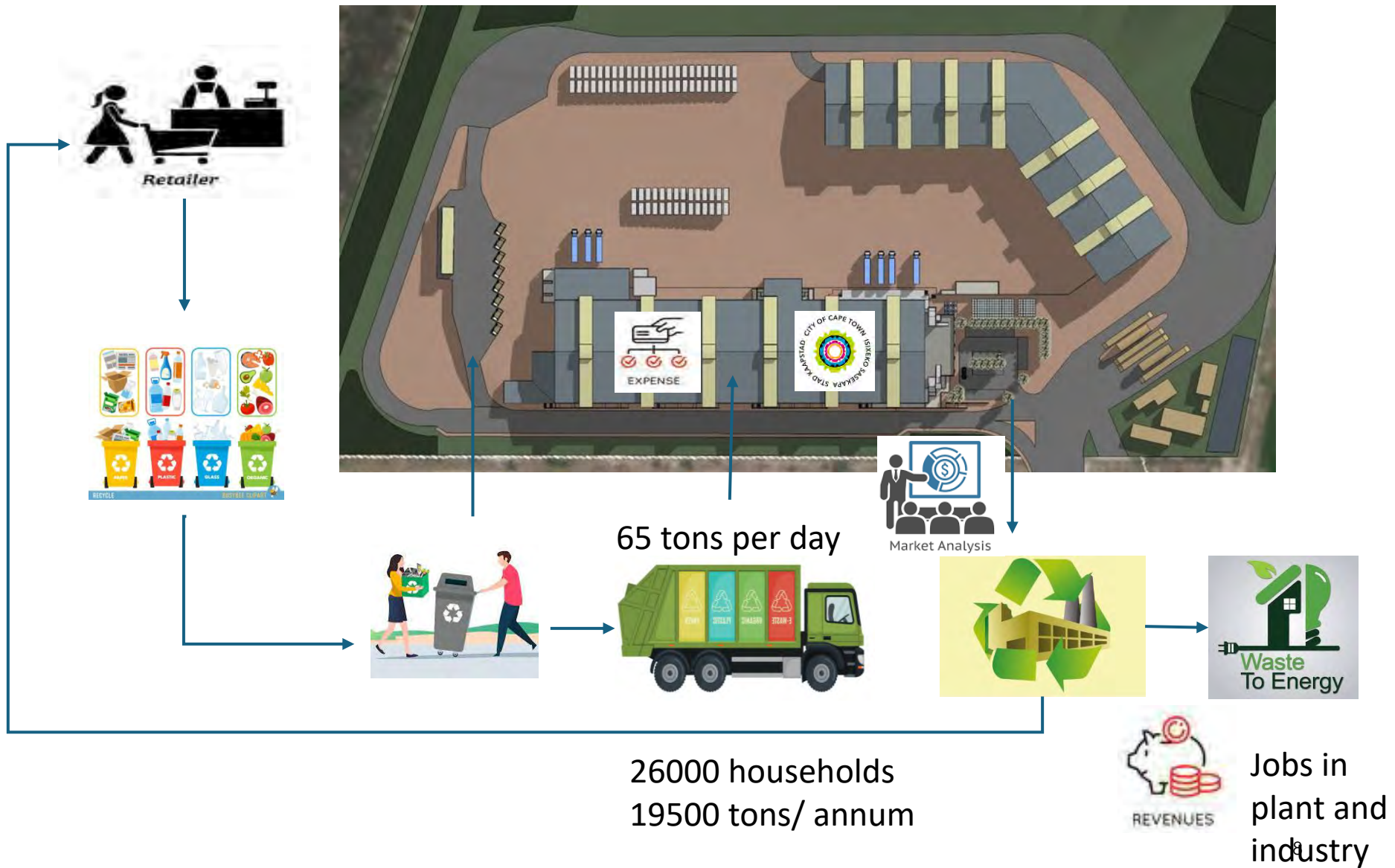
INTERGRATED WASTE MANAGEMENT FACILITIES



- Kraaifontein MRF - 100T per month
- Coastal Park MRF – 65T per day



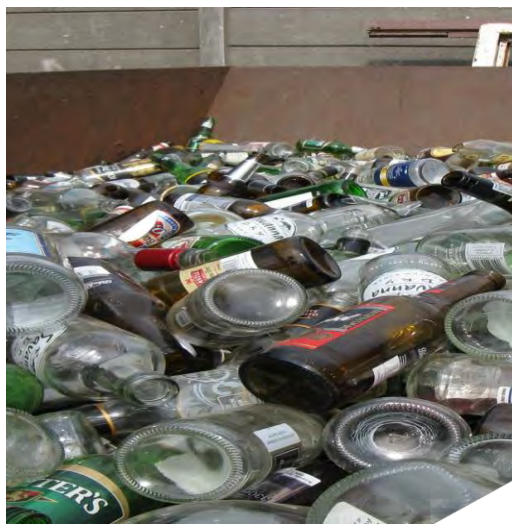
RECYCABLES CIRCULAR FLOW





Community Recycling Centres (CRCs)/ Drop-offs Model

- Contracted Services;
- Chipping services and beneficiation;
- Haulage of residue waste to landfill site
- Sorting and transporting to processors, resale of unused items onsite (income tender)
- Contractors submit data on a weekly basis- linked to payment.
- Within 7km radius – 3 km



LOW INCOME AREAS- SWOP SHOP MODEL



- **319.97 tonnes** diverted City-wide through this service)
- **151.84 tonnes** of organic waste diverted through S@S trials in the
 - Diep River and Black River Catchments.
 - Estimated **287 tCO₂e** was avoided as part of the **organic waste trials** and a further **275 tCO₂e** for the **City-wide swop shop program**.
- **A total of R786,673.20 worth of items was exchanged for recyclables by communities** City-wide through this service.
- Procurement of **two additional Swop Shop trailers** was finalised
- Forty 40 additional areas are serviced (September 2026)
- Contracted service – success depends on a number of issues.
- Lessons: Initial trials didn't perform well due to specifications of vehicle and the appointment of the contractor

ORGANIC WASTE INITIATIVES

- We are investigating further residential based organic waste diversion initiatives like using non motorised means.
- Part of the Bloomberg Mayor's project



Area	Period	Total Waste Diverted (t)	Average kg/ household/month	Average Active Participants per Month
Langa	Jul 2025 - Apr 2026	115.8	9.0	1,169
Dunoon	Oct 2025 - Jun 2026	36.0	13.6	264
Total		151.84		

ACTIVE LANDFILL GAS (LFG) MANAGEMENT SYSTEM

- **Energy Generation**



- **Landfill Gas Flaring**

- Coastal Park landfill-gas-to-energy project generates electricity sold to the City's Energy Directorate, offsetting Eskom purchases (R12m p/a)
- Electricity sale mechanism for the future Vissershok gas-to-energy project still to be determined

236 681 tonnes of carbon credits sold (June 2024) for ~R36 million

Overall, the Coastal Park Landfill Gas to Energy Plant demonstrates how strategic infrastructure investment can transform environmental liabilities into valuable assets, supporting both responsible waste management and sustainable energy generation for the City of Cape Town."

PARTNERSHIPS, EDUCATION AND AWARENESS

GreenCape

- Circular solutions to organic waste
- General Industry Engagement and Research to Promote Circularity
- Acceleration of the Western Cape Industrial Symbiosis Programme (WISP)

WCEDP

- Enabling Partnerships between municipalities, PROs and recycling sector SMMEs (Creative Procurement)
- Business Readiness & Incubation for SMMEs in the recycling sector

VARIOUS NGOs and NPOs



Toeghfa Leite Photography
31 July 2023 16:04



Thank You

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