







THIS CITY WORKS FOR YOU

Indicators for selecting areas for projects



- Minimum night flows (MNF)
- High water consumptions (ideally 11Kl/month)
- High bills due to high levels of non-payments



- · Leaks in the reticulation systems
- · Leaks within the households/properties (i.e. plumbing leaks)
- Indiscriminate wastage of water (i.e. people leaving taps open)



| ulk w | ater ba | llance | | |
|---|--|---|--|---|
| | | | | THIS CITY WORKS FOR YOU |
| Authorised Consumption 765.75 Ml/day System | | Billed Authorised Consumption 719.18 Ml/day | Billed metered consumption 719.18 MI/day | Revenue Water 719.18 Ml/day (79.5% of Input Volume) |
| | Authorised Consumption 765.75 Ml/day | | Billed unmetered consumption 0 MI/day | |
| | | Unbilled Authorised Consumption 46.57 Ml/day | Unbilled Metered Consumption 37.08 Ml/day | Non-Revenue Water 185.04 Mi/day |
| | | | Unbilled Unmetered Consumption 9.49 MI/day | |
| Volume Input | Water Losses 138.48 Mi/day (15.3% of Input Volume) | Apparent Losses 57.57 Ml/day | Unauthorised Consumption 9.04 MI/day | |
| 904.22 Ml/day | | | Customer Meter Inaccuracies 48.52 Ml/day | |
| | | Real Losses 80.91 MI/day | Leakage on Transmission and Distribution Mains 80.03 Ml/day | (20.5% of Input Volume) |
| | | | Leakage on Overflows at Storage Tanks 0.88 MI/day | |
| | | | Leakage on Service Connections up to point of customer meter Negligible |] |

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Project initiation





Social intervention (education and awareness)



- Identification of stakeholders (city officials and community)
- Community engagement (leadership structures and field workers)
- Training of field workers
- Educate community about better water saving options which can
- includes the acceptance of the water management deviceRecord each household leak defects in a job card by means of enquiries and observation
- Compile the list of all the defects for plumbers





















- Select a sample of households and verify quality of plumbing and education done
- Site walk down to check all standpipes installed
- Comparing consumption before, during and after implementation







| ilot projects | | | | | | |
|--|----------------|----------------|----------------|---|--|--|
| | | | | DTY OF CAPE TOWN ISIZEKO SASEKAPA STAO KAAPSTAD | | |
| Discription | Samora Machel | Fisantekraal | Ravensmead | THIS CITY WORKS FOR YOU | | |
| Number of households | 500 | 1233 | 1423 | | | |
| Average consumption before intevention (kl) | 21 | 29 | 31 | | | |
| Average consumption after intevention (kl) | 12 | 17 | 21 | | | |
| Difference (kl) | 9 | 12 | 10 | | | |
| Total Annual Consumption (kl) | 4500 | 14796 | 14230 | | | |
| Cost of the project (R) | R 1 100 000.00 | R 3 700 000.00 | R 4 200 000.00 | | | |
| Annual Average Savings (R) | R 54 000.00 | R 177 552.00 | R 170 760.00 | | | |
| Payback Period (years) | 1.7 | 1.7 | 2.0 | | | |
| Water Terrif per kilolitre | | R 12.00 | | | | |









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| Thank you! | |
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