
6th Zambia Water Forum and Exhibition, Lusaka, Zambia, 2017.

WATER, SANITATION AND SUSTAINABLE DEVELOPMENT GOALS; WHAT IS ZAMBIA DOING?

Towards sustainable financing: Water-waste tariff bundling option for sustainable solid waste service delivery by delegated Community Based Solidwaste Enterprises.

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I AM POWERFUL



Presentation Outline

1. Background- the solid waste challenge in Lusaka City
2. Piloted solution- Water/waste tariff bundling (TB)
3. Results of phase 1 pilot
4. Lessons learnt
5. Conclusions

1. Background- the Solidwaste challenge in Lusaka city

Solidwaste Situation

(2013):



19,040 out of 350,643 people in 4 project settlements accessing solidwaste services (2013).



300tons out of 1000tons of city was generated per day was collected.



Low willingness to pay for SW service: <15% of HH subscribers in 4 project settlements regularly paid resulting to low income for CBEs ranging K4,950 (Ng'ombe) to K27,000 (Chipata) per month.

CARE & Partner's Response:

Piloting tariff option (Water-Waste Tariff Bundling) to increase revenue for Solidwaste Enterprises to improve solid waste collection service.

4 year pilot project (Oct 2014 – Sep 2018)

3 Settlements of Lusaka city:

- a. Phase 1- Chipata
- b. Phase 2- Chaisa & Kanyama



2. Piloted solution- water/waste tariff bundling revenue collection approach

- Bundling approach where the waste fee is paid through water fee (at Water Trusts) while solid waste service is provided by CBEs

- Tariffs:

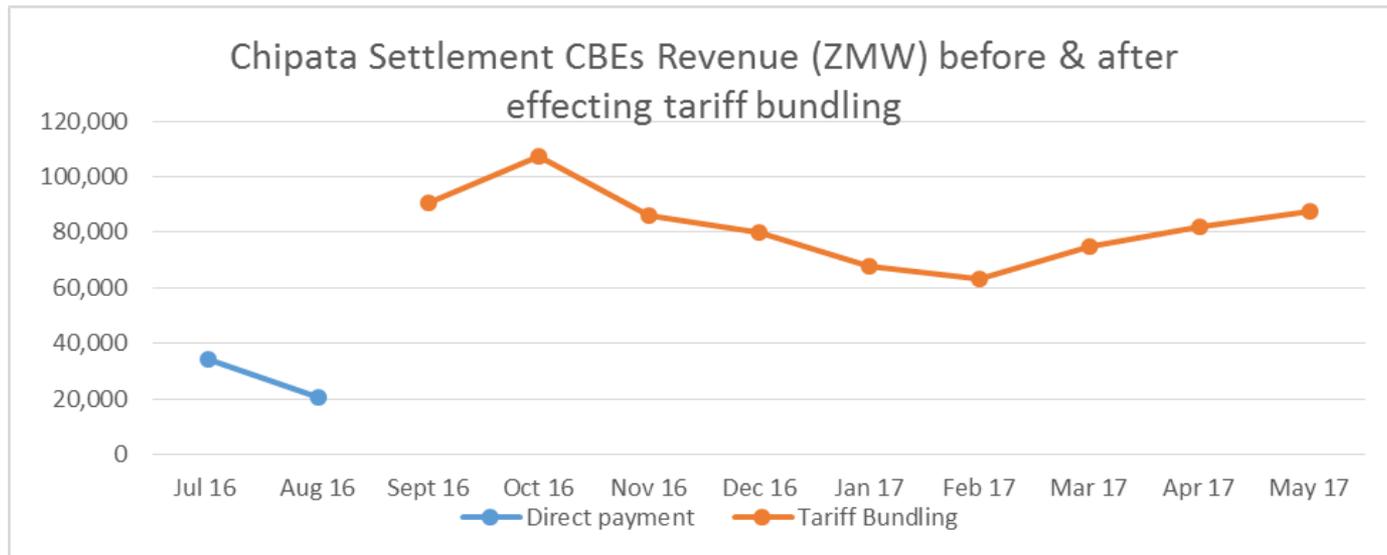
Communal Kiosk Users Tariff (K)			Individual Tap Connections Tariff (K)			
Bundled tariff	Water tariff	Solidwaste Tariff	Block	Bundled Tariff	Water tariff	Solidwaste Tariff
50ngwee per 20litre container	40ngwee per 20litre container	10ngwee per 20litre container	0- 6 m ³	8.83	3.93	5.0
			6 - 30 m ³	9.72	4.72	5.0
			30 – 100 m ³	0.00	5.35	0.00
			100 – 170 m ³	0.00	6.29	0.00
			Above 170 m ³	0.00	7.71	0.00

- Apr 17- Phase 1 Review (Chipata Settlement). Learning question: *How effective was the water-waste tariff bundling approach being implemented in relation to revenue generation, waste collected, implementation process?*

3. Results of phase 1 pilot

Water-waste tariff bundling revenue generation

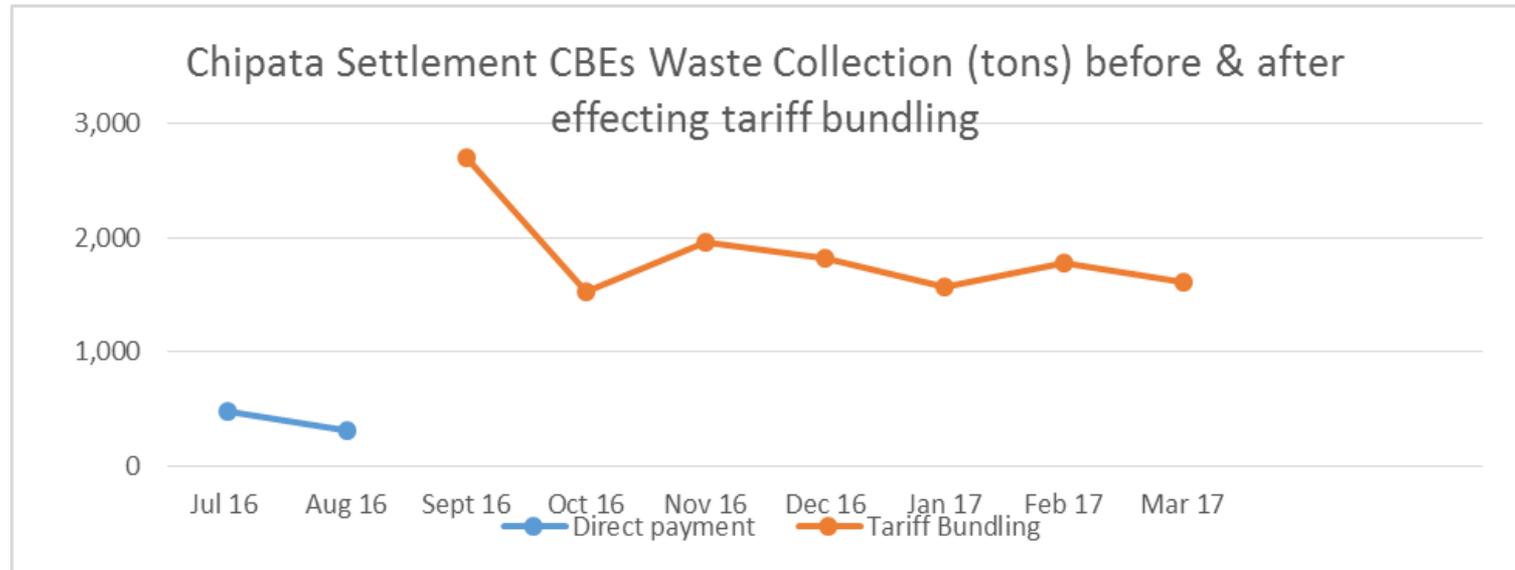
From Sep 2016 to May 2017, the highest revenue collected was ZMW107, 566.00 in October 2016 and the lowest amount was ZMW63, 102.00 in February 2017. The average monthly revenue was ZMWK82,500.00; 200% increase compare to average ZMW27,000 through direct payment.



3. Results of phase 1 pilot (Cont.)

Waste collected

Waste tonnage collected from households and business entities increased from av. 394tons per month (before TB) to av. 1,854tons per month (after TB) in the period Sep 16- Mar 17.



3. Results of phase 1 pilot (Cont.)

Other results:

- **Reduced tariff for solid waste collection for the households-** from ZMW30 to ZMW18 per month
- **Participation and collaboration by other stakeholders** - 14 stakeholders involved in the project bringing on board diverse competencies, influence and interests.
- **Upward change in salary levels and frequency of payments by CBE workers-** Av. staff monthly salary for 2CBES was K1,253.00 (with 37 workers) paid regularly, compared to K500.00 (with 20 workers) before tariff bundling.



4. Lessons Learnt

- Settlements with adequate water have potential for increased TB revenue
- Unregulated water sales by private borehole owners affecting registered small scale WASH providers (Water Trusts)
- Anticipation of operational challenges could help CBEs make forecasts (*Actual TB revenue is lower than business plan projection of ZMW218,000 per month.*)
- A reliable secondary transport system is essential effective waste collection

5. Conclusions

Reverting to the key learning question on the TB model:-

- Water- waste tariff bundling appear popular and affordable
- Good progress in changes of revenue (200%) & waste tonnage collected (370%)
- While good progress was observed, challenges exists that require consented efforts

Overall, the results re-inforce the view that water-waste tariff bundling is a **reliable financing mechanism** for sustainable solid waste service by delegated enterprises. The model gives an opportunity for a large part of the unserved population to achieve the **80%** solid waste collection efficiency by 2030.

Thank You, Zikomo, Natasha

