

Cooperation Hamburg / Dar es Salaam in Solid Waste Management



STADTREINIGUNG HAMBURG

DCC = Dar es Salaam City Council Dept.
for Solid Waste Management

- 2004: first contact between DCC – SRH by deployment of an employee of DCC within the scope of the BMZ-education program „Management for a sustainable SWM in Africa“ for 4 month to the SRH
- 2005: several mutual visits of specialists and executive staff,
 - agreement for a cooperation in future,
 - 2 specialists from DCC develop a roadmap for SWM in Dar at the SRH
- 2007: SRH advised DCC in building a sanitary landfill (Pugu),
 - SRH donated a wheel-loader and 3 small trucks to DCC
 - Major of DCC signed the first MoU in HH
 - 3 specialist from DCC were educated in composting of organic waste for 2 weeks at the SRH
- 2008: Landfill compactor as a donation for DCC



Development of our cooperation



STADTREINIGUNG HAMBURG

- 2008: Several visits from DCC in Hamburg, topics were Pugu-landfill, the composting of organic waste, the cooperation.
- 2009: Visit from SRH for 2 weeks in Stone Town and DCC with intensive evaluation of the situation about waste-collection and waste-disposal in. Creation of a report with ideas for improvement.
- 2009: Again signing of a new MoU
- 2009: Visit from DCC in Hamburg, first talks about a possible CDM-project in Dar
- 2009: Building of a small-scale compost-facility on Pugu-landfill as an attempt
- 2010: Town-twinning decided
- 2011: NIT and SRH try to recruit students from Dar to study waste management in Hamburg
- 2011: DCC-specialist for waste visited Hamburg



Municipal Climate Partnership



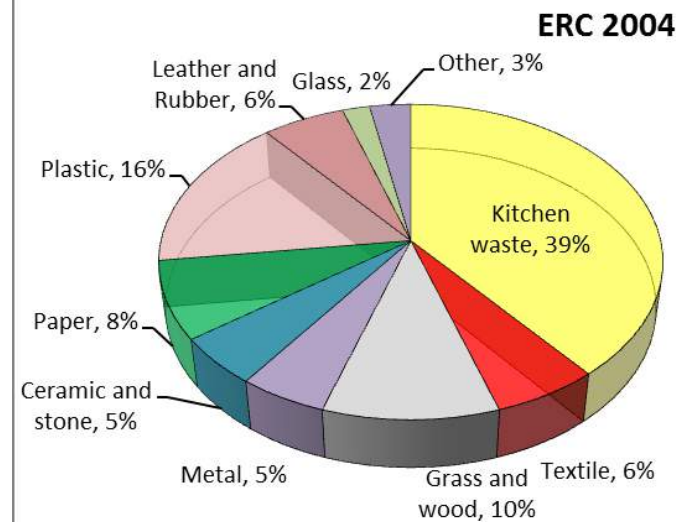
STADTREINIGUNG HAMBURG

- 2011: Start of the BMZ-Project „Municipal Climate Partnerships“ between 50 German municipalities and their partner municipalities in the south
- 2012 / 2013 / 2014: Experts from Germany have been in Dar several times to compile ideas for a CDM-project. At the end we got a feasibility-study for 3 options:
 - a) Bottom sealing for Pugu-landfill
 - b) Reconnection of Mtoni-CDM-project
 - c) Compost-facility for market-waste
 Decision: Composting of 50 tons market-waste / day
- 2015: Financing of 1.6 Mio €?
 500.000 € funding by BMZ,
 rest by the city of Hamburg with
 the fund for carbon offset for travel
 activities of the administration staff.
 Contracts are to be terminated
 in the next few weeks.



Facts (Dar es Salaam)

- Official 4,5 Mio inhabitants, 75% more than in 2002
- 4.200 tons of waste per day, only 45% are collected and dumped in Pugu
- Nearly no separate collection
- Regular waste collection only in some districts of Dar
- Only 1 USD tipping charge per ton, goes to DCC, is normally not available for the waste sector
- The collecting and haulage companies have to encash the fee from the inhabitants to refinance their costs
- The private companies have got quite a few of modern trucks since 2009. The municipalities often have less equipment in a bad shape.
- There might also be some problems with corruption with the fee collection from the households

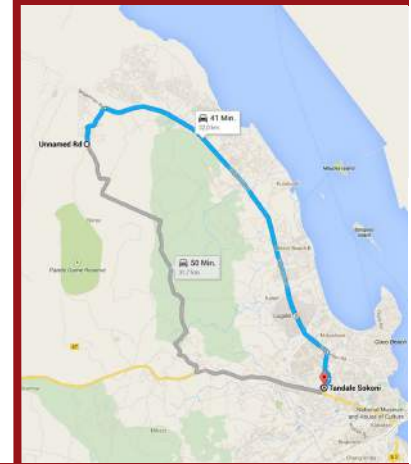
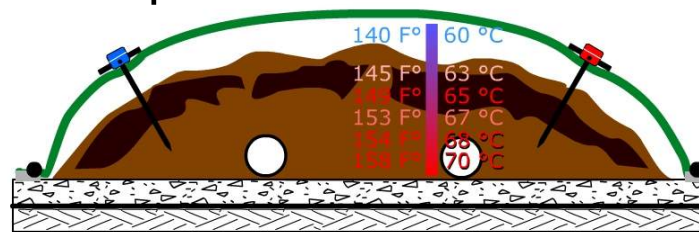


CDM – Project: Compostfacility for market waste



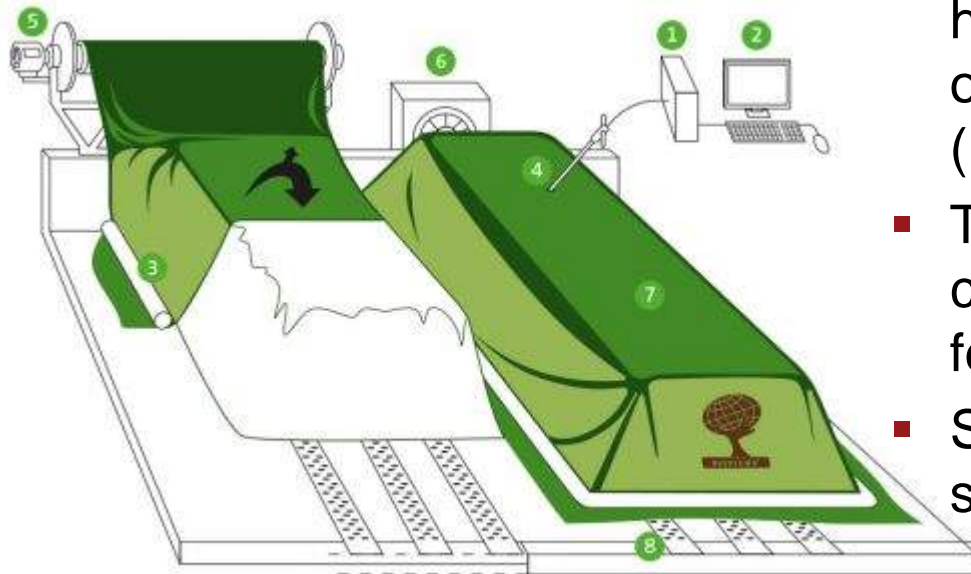
STADTREINIGUNG HAMBURG

- Up to 300 tons nearly clean market waste per day available
- Trucks with this waste could easily be switched from the landfill to the compost facility
- Big plot for the facility is already found in the north of Dar
- The two biggest markets from Kinondoni municipality will bring their waste to this facility. An extension of this facility up to 150 tons/day is possible
- City-Planner from DCC and Municipal Director of Kinondoni want to get this facility
- Education of the facility manager in Hamburg



Concept for the composting facility

- Owner will be the Kinondoni Municipality
- Operator might be a PPP because Kinondoni don't like to be the operator (is to be decided)
- Hamburg will escort the project for the first year
- A problem could be the lack of structure material for the sufficient aeration (only sugar cane, maize cobs and husks)
- Gate fee will be only 1,5 €/t



- The compost revenues have to cover a big part of the operation-costs (15€/t)
- The compost has to be cheaper than mineral fertilizer
- Start of construction should be in 2015

