

1. Starting point

- The experience of the last century in Germany teaches that
 - o laws,
 - waste management plans,
 - project realisations ...

collaps, in cases of a missing long-term financing.

- Financing must be secured at all levels. That means
 - o at national level,
 - o at county or municipal level,
 - at enterprise level.



2. Institutional setting

- Prussian community charges act from 14.07.1893
 - Legal basis to charge fees for street-cleaning and garbage removal
 - Starting point of financing securing on municipal service tasks in Germany
- Principles of the German license fee
 - Cost covering principle
 - Polluter-pays principle
 - Equivalence principle
 - Transparency principle



3. Approach

- Establishment of a SMW fee system on municipal level
 - Cost and performance accounting
 - Forecast budget planning
 - Charging system
- Establishment on an accounts receivable accounting system
 - Debtor is each property owner
 - The ownership of each property is known by the German cadaster - the whole country is registered
 - Apportionment of the waste fees on each property by owner



4. Outputs

Typical municipal waste fees (exemplary calculation)

Type of waste	Type of collection	Fee	Costs/hab.a.	Objectives
Overhead	administration, information	no individual fee	10,00 €/a	effective and efficient
Glass	central collection point	no individual fee	2,50 €/a	high recycling quote
Paper,	central collection point household bin	no individual fee	9,45 €/a	high recycling quote
cardboard				
Recycables	household bin	fee paid by shops	27,00 €/a	high recycling quote
Biowaste	household bin	Fee/a	18,00 €/a	
		52/a		
60 I bin		35,00€		economic incentive to separate
80 I bin		45,00€		cost covering
120 I bin		70,00€		equivalence principle
240 I bin		140,00€		standing and variable charges
Resiudals	household bin	Fee/a	46,13 €/a	
		26/a		
60 l bin		50,00€		high recycling quote/less residuals
80 l bin		63,00€		economic incentive to separate
120 I bin		88,00€		cost covering
240 I bin		167,00€		equivalence principle
1,100 l bin		800,00€		standing and variable charges
Hazardous	central collection point	no individual fee	2,00 €/a	high capture rate

Norbert Evermann Projects/Consulting İzmit, 04.07.2017

In Cologne, all SMW costs are covered by the residual bin:
2017: 60 | bin 296 €, 120 | bin 470 €, 240 | bin 824 €



5. Lessons

- Ensuring of financing by a legal system is obligatory.
- Know how in SMW technologies is important, but only one element in addition to
 - Management and leadership
 - Personal and organization
 - Budget planning and cost control
 - Financing of the SMW system and cost recovery
- All SMW activities must be (re)financed on long terms.
 - A financing system must be developed and established.



6. Transfer

- Find out good solutions and lessons learned in other countries and municipalities.
- Analyzing of its own situation and possibilities.
- Adapt the best solutions and make it to your own.
- Take make or buy decisions in SMW activities for your own municipality
 - In-house operation
 - Public private partnership (PPP)
 - Outsourcing
 - Mixed system
- Put your thoughts and ideas into practice.