

Using WF-Reptool in a market without Reptool



Challenges in the beginning and differences to the Dutch market

Agenda:

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- General remarks from recycler`s perspective (3 pages)
- User friendliness of WF-RepTool (2 pages)
- WEEELABEX downstreamstatements - challenges in the beginning, disadvantages of the early bird (6 pages)
- Ideas (1 page)
- Your questions (1 page)

Introduction



Name:	Sebastian Schormann
No. of systems of reptool:	Reptool for Netherlands, France & Austria No Reptool for Germany
Organization:	REMONDIS Electrorecycling
User of WF-RepTool since:	2010 (REM), personally (2011)
Report interval:	Each half year
Number of recycling facilities:	7 (Austria, France, Germany & Poland)
Number of <u>yearly</u> reports:	2 for Wecycle (+1 de-po in the past)
Specialties:	SDA, CFA & CRT

General remarks from recycler`s perspective



My 1st use of WF-Reptool:

- Many different options



Wecycle Reporting tool for treatment partners		Login - Remondis Electrorecycling Sebastian Schormann						
Treatment results	De-pollution results	Sampling results	Packages	Tasks	Summaries	Download	Logout	en
Active report	Id 754	small appliances (all)	Period data 01-01-2013 - 30-06-2013			Weight (kg)		
First fractions	Overview	Final	Calculation	Analyze	Inspect			



- Many questions to answer

WF_RepTool code	Output fraction	internal name of output fraction	Percent	Weight (kg)	% []
16 02 09* / 02	PCB (suspect) capacitors	capacitors / Kondensatoren	0,0678 %	kg	%
MEAB - Märkische Entsorgungsanlagen-Betriebsgesellschaft mbH (DE)	hazardous waste incineration		F 100,0000 %	kg	%
mixed fractions - disposal	no use - 'hot technologies'		TD TD 100,0000 %	kg	%



- Much work



General remarks from recycler`s perspective



- It is a lot of work to create the first report but you get ...
 - an overview of your streams
 - a helpful tool to control your downstreams
 - the chance to do free analysis (development of streams, combine shares of streams with costs and revenues) with exports
 - one standard tool – international benchmarks
 - Economies of scale for user (costs)



Advantages for all serious stakeholders

User friendliness of WF-RepTool



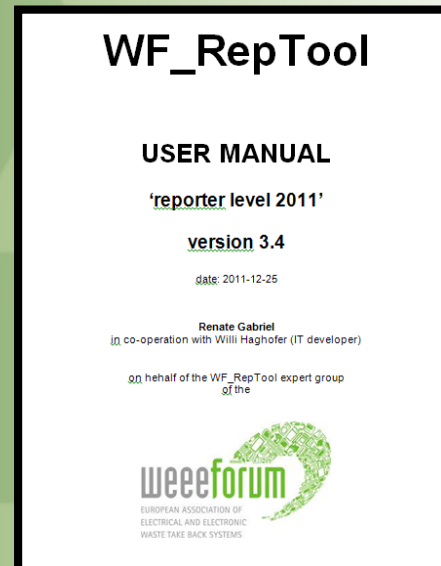
- The beginning of using reptool took much time & work (to build the tree)
- Some typical and repetitive actions were uncomfortable (e.g. searching for RepTool codes in a full list)
- But there are continuous improvements which make live much easier (e.g. short list & material groups)

WF_RepTool code starts with:		Material group	
Short list	small appliances		
Clear	Sort by	WF_RepTool code	Material group
			Clear selection
			packaging & non WEEE input & WEEE not in the scope
			appliances & appliance-like sorted
			oils & cooling detergents & parts with cooling detergents
			batteries
			components to be removed excl. batteries, circuit boards & cables, ...
			circuit boards & cables & other metal-rich compound fractions
			plastic packaging sorted from TMS 18
Select	15 01 01	paper/cardboard packaging material	paper and cardboard packaging sort that this share/amount may be ded

User friendliness of WF-RepTool



- Best way to learn – learn from a user with experience and try on your own
- Good friend for questions and details:



User manual with
147 pages



(WEEELABEX) downstreamstatements



- German requirements for downstreamstatements are not suitable for reptool because there is (usually) no information about:
 - the composition
 - details of the used technology
 - Further downstream flows
- Only the fraction, the total volume and information about RU, MR, ER, TD or LD

(WEEELABEX) downstreamstatements



- But reptool wants to know more:

**	▶	16 02 16 / 10-1	power supply cables					0,1300 %
	▶	Confidential (???)		fine shredder / separation			I	100,0000 %
***	▶	19 12 03 / 05-2	copper and copper alloys 'pure'					35,0000 %
	▶	Confidential (???)		Cu smelter 'traditional'			F	100,0000 %
			Cu	Cu > Cu recovery		MR	MR	100,0000 %
***	▶	19 12 04 / 07-1	cable plastics	PVC				65,0000 %
	▶	Confidential (???)		municipal waste incineration			F	100,0000 %
			mixed fractions - disposal	no use - 'hot technologies'		TD	TD	100,0000 %

- So REMONDIS had to change the complete downstream monitoring

(WEEELABEX) downstreamstatements



Long way from the idea until the implementation:

- Resistance from downstream acceptors:
 - „No one else asks for that – just more work“
 - „That data about the composition and our further acceptors is confidential“
 - „Our downstreamstatement fulfills the legal requirements and is agreed with the local authority – there is no need for more“
 - „We can´t supply you with the required data“

(WEEELABEX) downstreamstatements



Challenges:

- Existing partners should supply more information without any advantage for them
- Detailed data about composition and further downstream acceptors are competitive advantages
- It is difficult to get the composition data from some fractions (Process of LDA in Germany in a mix with scrap – no single mass balance)
- Different R1 definition in Germany (calorific value of the material is focussed)
- Use of different downstream acceptors which also use different further downstream acceptors - complex
- Weak bargaining position for some fractions (wood & LDA)

(WEEELABEX)

downstreamstatements



Finding solutions to get the required infos:

- Inform & interview of the downstream acceptors
- Prepare an example
- Support them as good as possible
- New requirements for new downstream acceptors
- Analysis about the composition of mixed fractions
- Downstream audits

➔ Keep trying to get the infos

(WEEELABEX) downstreamstatements



One example for a downstream statement:

Name of the acceptor										
Downstream statement for cables (mix) from REMONDIS Electrorecycling Lünen										
Delivered amount		200,0 t								
Period		01.01.2013 - 31.12.2013								
Step	Fraction	Description	Material	Weight	Share	Quotes			Target	Technology
1		cables (mix)		200,0 t	100%	MR		ER		
2		copper	Cu	70,0 t	35,0%	98,0%	68,6 t	2,0%	1,4 t	EU
2		PVC	Plst	130,0 t	65,0%					Germany
3		PVC clean	Plst	13,0 t	10,0%	100,0%	13,0 t			Germany
3	cables (mix)	Gewerbeabfall (PVC-Reste)	Res	117,0 t	90,0%			100,0%	117,0 t	Germany
Total				200,0 t	100,0%	40,8%	81,6 t	59,2%	118,4 t	

Help		
Short	English	Deutsch
RU	Reuse	Wiederverwendung
MR	Material Recycling	Stoffliche Verwertung
ER	Energy Recovery (R1)	Energetische Verwertung (R1)
TD	Thermal Disposal	Thermische Beseitigung (ohne R1)
LD	Landfill Disposal	Beseitigung (Deponierung)

Sign, date, stamp



It is still not always easy to get all data but many acceptors support us and we go on

Ideas



- API for other systems (recycler can integrate reptool into the ERP-systems)
- Integration of costs & revenues (advantage for recyclers)
- Copy paste function for parts of the tree (create a package from an existing part of the tree)



Time for your questions



Thank you very much for
your attention!

