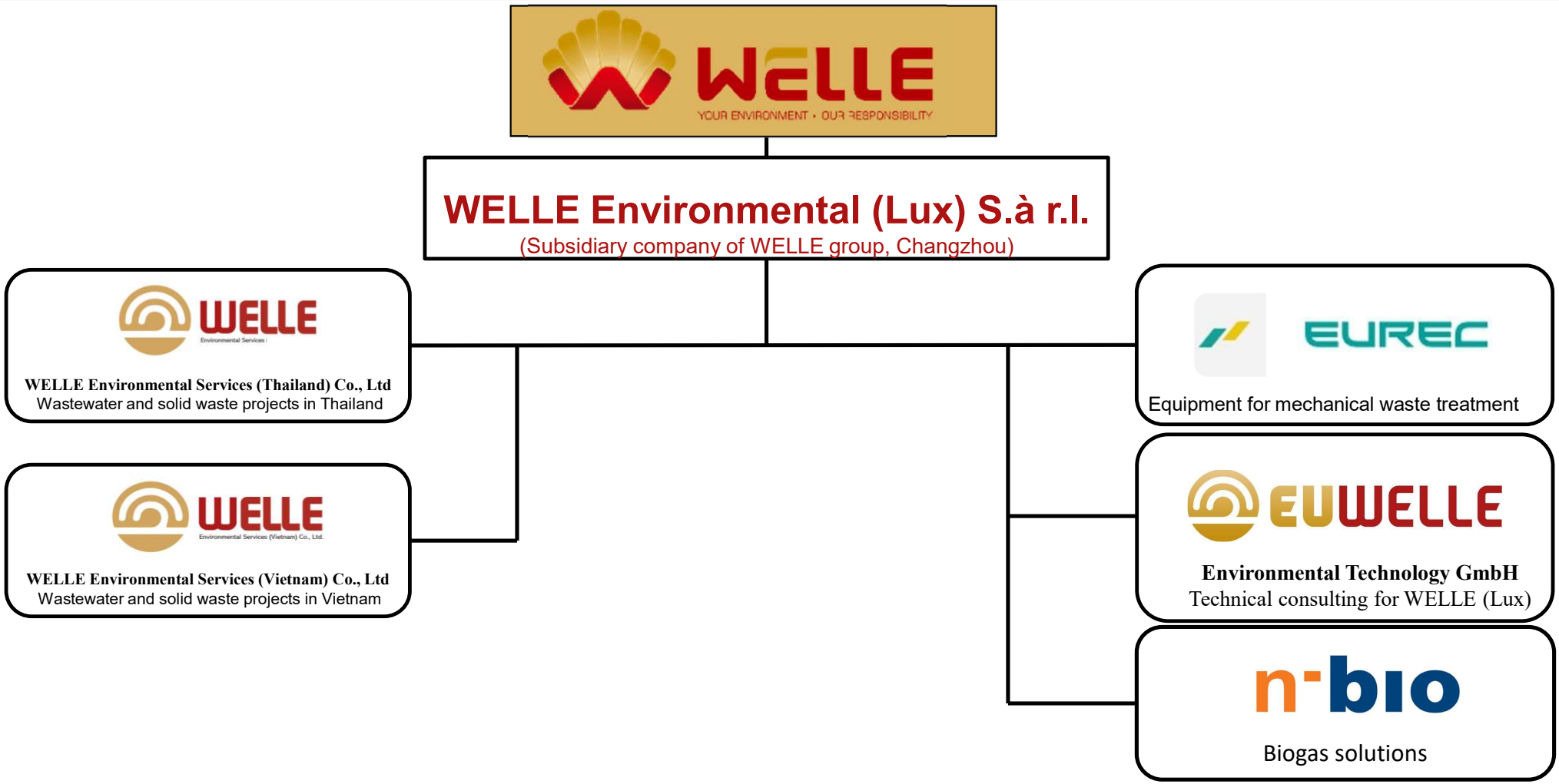
Introduction of Maximum Yield Technology® Mechanical – Biological Treatment solution

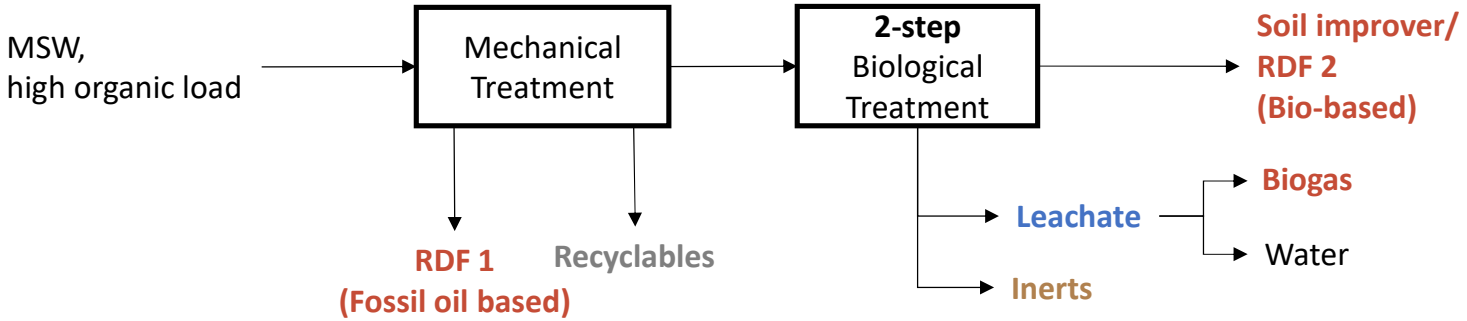
Company introduction



Introduction MYT®

Process concept of

MYT®
Maximum Yield Technology

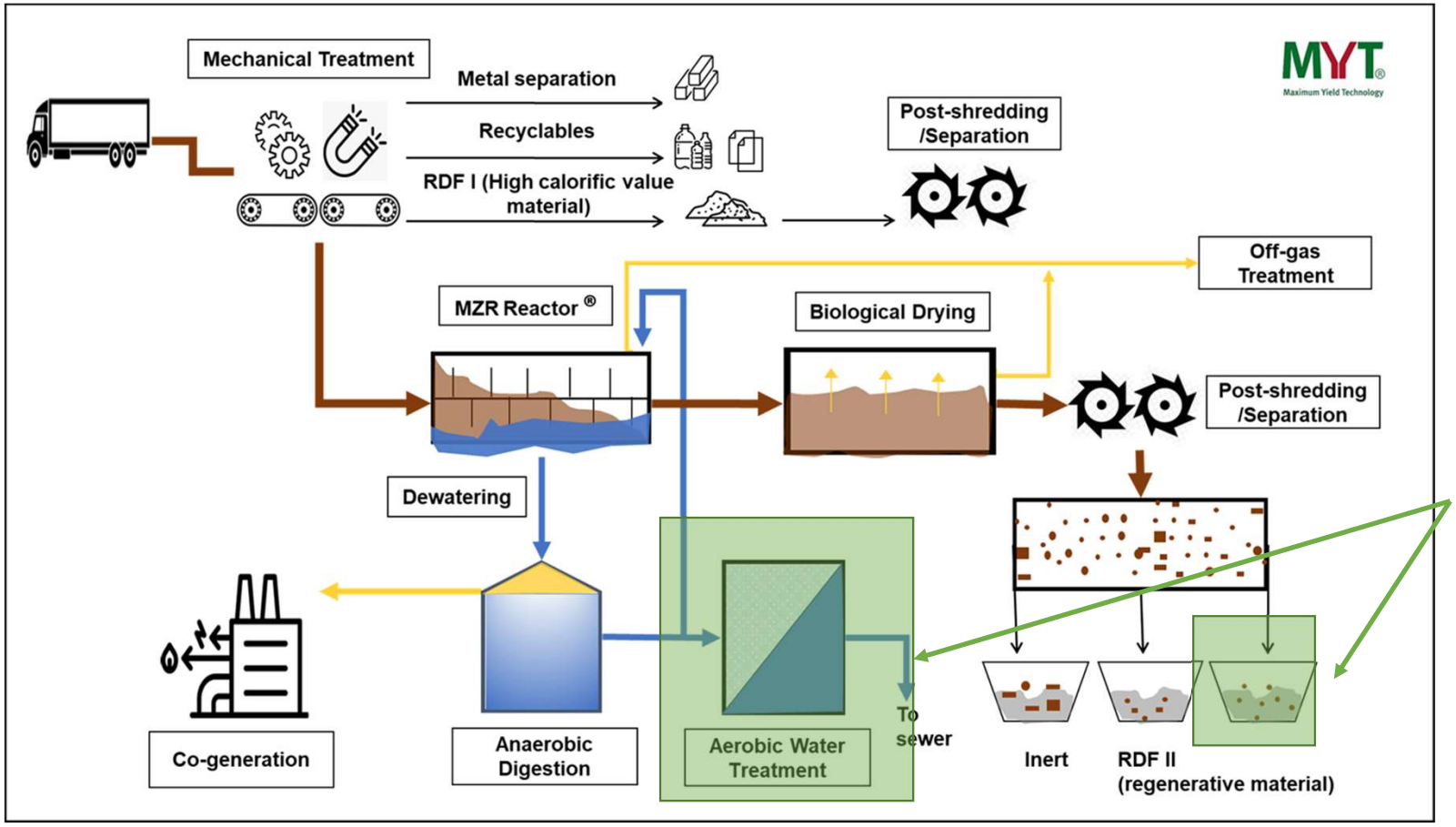


Introduction MYT®

No.	Year	Name of Project	Location	Supplier	Scope of Supply	Capacity	Status
7	2020	Jiading wet waste treatment project	Shanghai, China	WELLE	complete equipment supply, installation,	200 t/d of kitchen waste	Installation
6	2020	Wet Waste Treatment for Jinshan Solid Waste Comprehensive Utilization Project	Shanghai, China	WELLE	design, supply, installation of all process equipment,	100 t/d food waste + 150 t/d kitchen waste + 10 t/d waste oil	Installation
5	2020	Songjiang wet waste utilization project	Shanghai, China	WELLE	mechanical treatment+ MZR percolation + AD	150 t/d kitchen waste + 100 t/d food waste + 10 t/d waste oil	Commissioning
4	2020	MSW Treatment Plant at On-nut MSW Management Center	Bangkok, Thailand	WELLE	mechanical treatment+ MZR percolation + AD	800 t/d MSW	Commissioning
3	2015	Hangzhou Tianziling Kitchen Waste Treatment Demonstration Project	Hangzhou, China	WELLE	mechanical treatment+ MZR percolation + AD + biological drying	50 t/d Kitchen Waste	Operating
2	2015	MYT® plant SYMEVAD	Hénin-Beaumont, France	SYMEVAD administration union	mechanical treatment+ MZR percolation + AD + biological drying + postseparation	80,000 t/a MSW + 20,000 t/abulky waste per year	Operating
1	2006	ZAK MYT Project	Ringsheim, Germany	MYT BU	mechanical treatment+ MZR percolation + AD + biological drying + postseparation	100,000 t/a MSW	Operating

Introduction MYT®

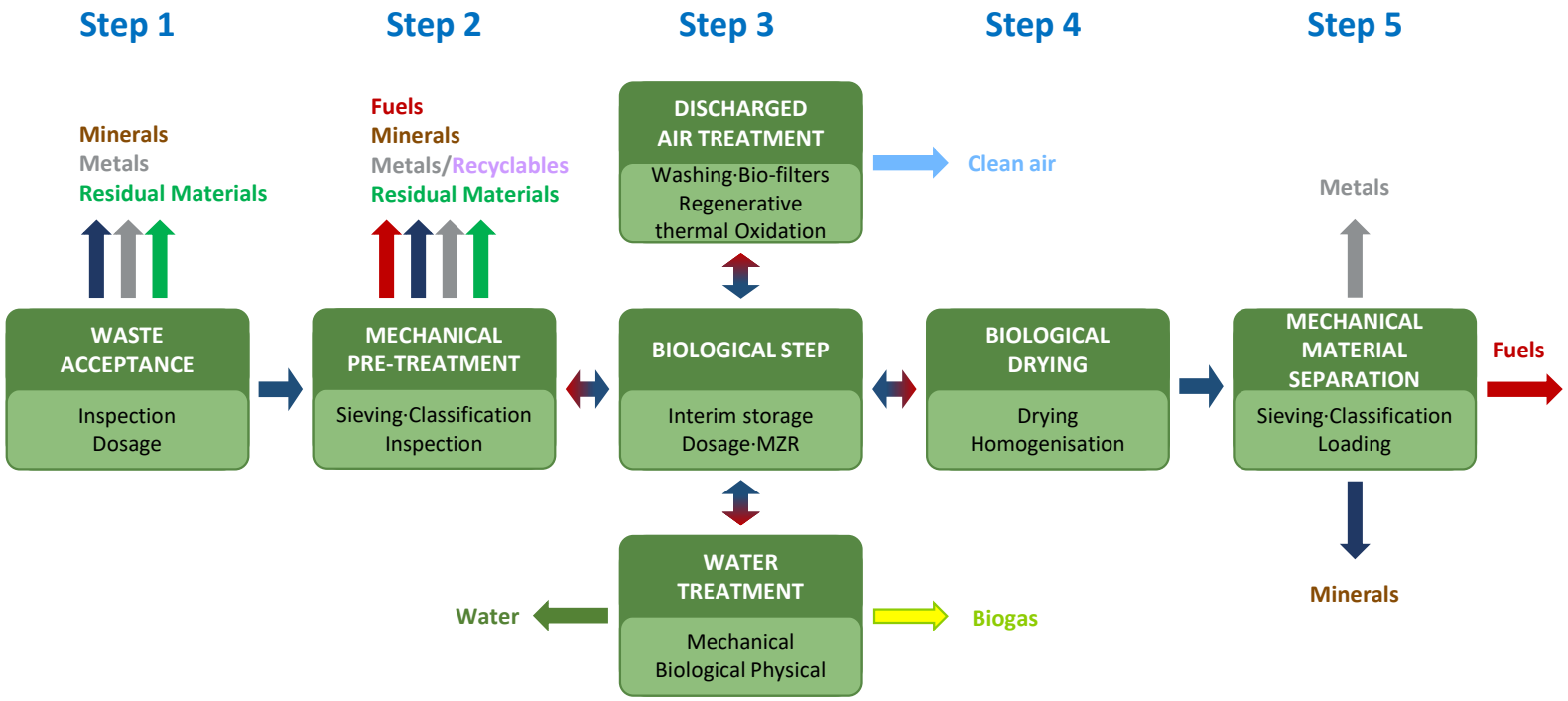
MYT® Process and Objectives:



Digital plant visit of MYT facility in Germany:
https://www.youtube.com/watch?v=vPIYaU9EsbA&list=PLcVGMesWRpficcRzsc0sbutX3bTsXP5Qb

Introduction MYT®

MYT® Process and Objectives:



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Introduction MYT Project in Nambo, Indonesia

Input

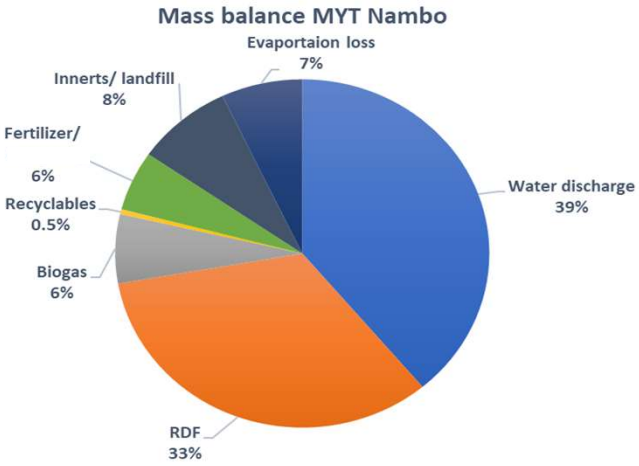
- 1,800 tpd/ 600,000 tpa MSW

Output

- Electricity
- Refuse Derived Fuel (RDF)
- Soil improver
- Treated wastewater

Further (future) revenues

- EPR system
- Carbon credits



Products of the MYT® Process

Comparison of the quality parameters of MYT® substitute fuel with coal (lignite)

Parameter	Unit	MYT®-RDF	Dry lignite (1)
Calorific value	MJ/kg	14.7	20.2
Water content	%	9.3	12.0
Sulphur	%	0.5	1.2
Carbon content	%	39.0	53.0
- of which is biogenic carbon	%	66.6	0.0
Oxygen	%	20.8	21.1
Nitrogen	%	1.5	0.6
Hydrogen	%	5.3	4.3
Ash	%	32.2	7.2

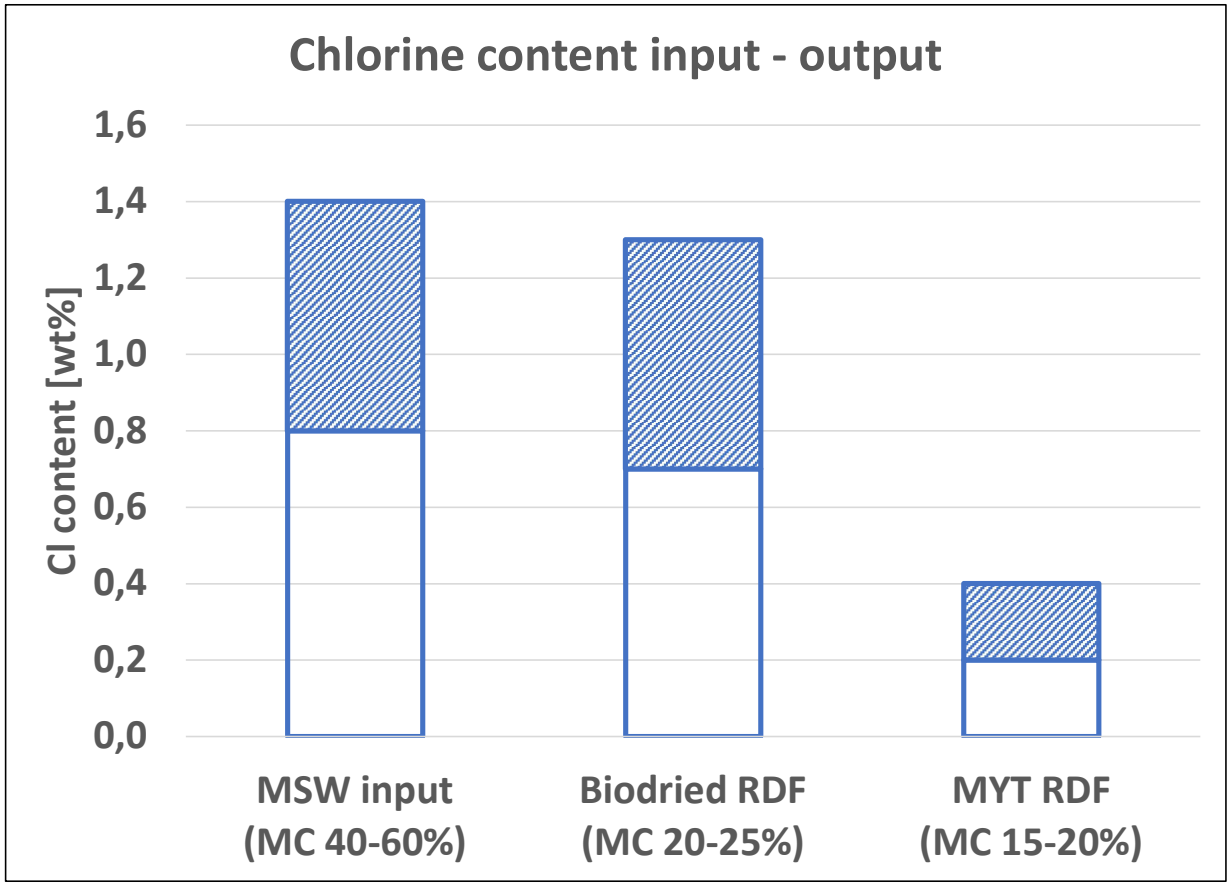
1) Origin: Lower Lusatia region, Germany.

RDF 0-4 mm
11 – 12 MJ/kg

RDF 4-8 mm
13 - 14 MJ/kg

RDF 8-40 mm
14- 16 MJ/kg

Resulting Chlorine Contents RDF



- Highly fluctulating Cl content in input material (MSW)
- Biodrying limited in decreasing Cl content in RDF
- MYT® can effectively reduce Cl content in RDF (reference of German MYT® facility

Products of the MYT® Process

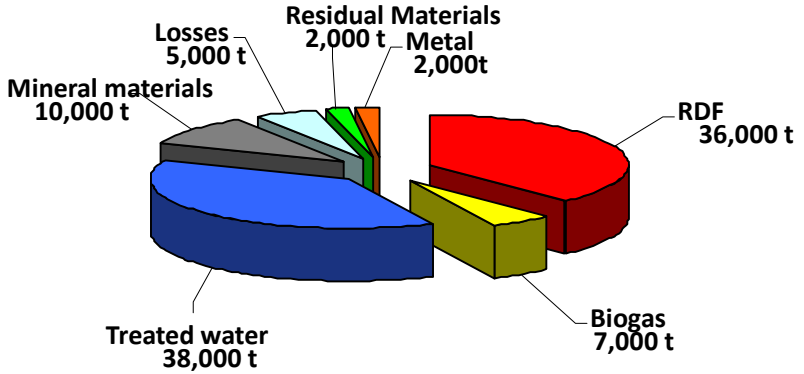
Parameter for Classification	Unit	SRF-Specifications						
		Coalfired Power Station	Calciner	Grate Firing	Fluidized Bed	HOT DISC Cement Kiln (HDF)	Primary Burner Cement Kiln (PBF)	Blast Furnace (Steel Plant)
				Utility boilers				
Net Calorific Value	MJ kgOS-1	11 - 15	11 - 18	11 - 16	11 - 16	14 - 16	20 - 25	> 25
Particle Size	mm	< 50	< 50 - 80	< 300	< 20 - 100	< 120	< 10 - 30	< 10
Oversize	%	0	< 1	< 3	< 2	*	< 1	0
Impurities (extraneous material)	w%DM	< 1	0	< 3	< 1 - 2	*	< 1	0
Chlorine	w%DM	< 1.5	< 0.8	< 1.0 - 0.8	< 1.0 - 0.8	0.8 - 0.6	< 1.0 - 0.8	< 2
Ash	w%DM	< 35	*	*	< 20	20 - 30	< 10	< 10

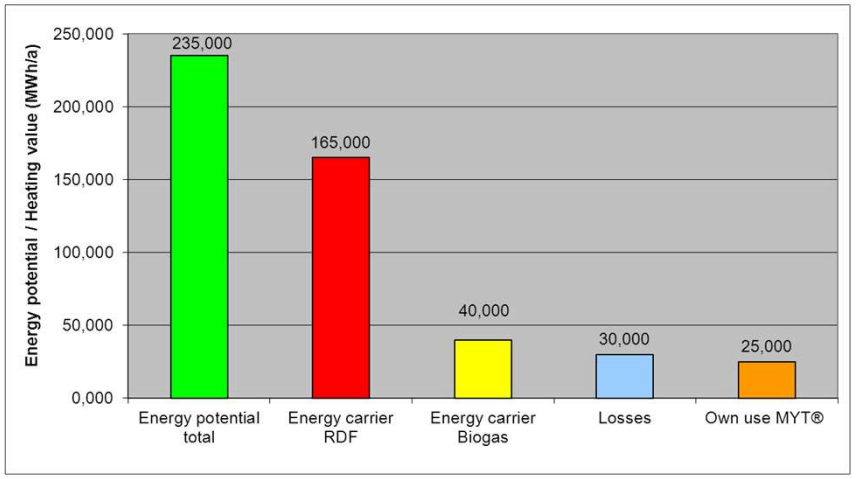
*: no distinct limitation, depending on feeding system or ash discharge

Source: Lorber, K.E., Sarc, R. and Pomberger, R.; 2011: Production and application of refuse derived fuels. In: Waste-to-Resources 2011, 4. Internationale Tagung MBA und Sortieranlagen (ed. M Kuhle-Weidemeier). Göttingen, Germany: Cuvillier Verlag.

Products of the MYT® Process

Products generated at MBT Kahlenberg from the treatment of about 100,000 tons of waste / a





Summary of MYT®

- **Effective reduction of waste amount to be landfilled**
- **Prevention of landfill gas emissions (CH_4)**
- **Substitution of fossil fuels**
- **Ecological and economical utilization of energy content and valuables**

THANK YOU

For more information about offered waste treatment technologies, please visit our websites

WELLE Environmental Group Co., Ltd.

No.156, Hanjiang Road, Xinbei District,

Changzhou, Jiangsu, China PC:213125

www.wellegroup.com

EUWELLE Environmental Technology GmbH

Im Hausgrün 12, 79312 Emmendingen, Germany

Mail contact: m.loskarn@euwelle.com;

LinkedIn: https://www.linkedin.com/in/marc-loskarn-99585796/

Website: www.euwelle.com

YouTube: https://www.youtube.com/channel/UCj1o5AfQHmjMs_hQDr9riRA