**Proposal for new structure for the reviewed WT BREF with consideration of Directive 2010/75/EU**

The revised BREF for the Waste treatment industries should cover the following activities within the scope of Annex I of Directive 2010/75/EU.

The revised WT BREF should cover all above mentioned activities defined in the Annex I of Directive 2010/75/EU. Compared to the existing WT- bref, the scope of the covered activities has been extended. To improve readability and usability for users the revised bref should be structured in to separate sectional brefs for certain activities.

The given table proposes a structure for the revised bref, taking into account the KOM conclusions on scope and structure.

The standard structure, described in the BREF guideline (‘General information’ up to ‘Emerging techniques’) to each of the separate chapters is applied to any single chapter

|  |  |
| --- | --- |
| **Section in proposed sectional structure**  | **Activities defined in the Annex I of Directive 2010/75/EU**  |
| **Common techniques**  |  | 5.1. (c) blending or mixing prior to submission to any of the other activities listed in points 5.1 and 5.2;(d) repackaging prior to submission to any of the other activities listed in points 5.1 and 5.2;5.5 Temporary storage of hazardous waste not covered under point 5.4 pending any of the activities listed in points 5.1, 5.2, 5.4 and 5.6 with a total capacity exceeding 50 tonnes, excluding temporary storage, pending collection, on the site where the waste is generated |
| **Biological treatment**  | **Biological treatment of source separated bio- waste**  | 5.3. b(i) biological treatment |
| **Biological treatment of municipal solid waste (msw)** | 5.3. a(i) biological treatment;5.3. b(i) biological treatment5.1. (a) biological treatment; |
| **Mechanical treatment of waste** | **Pre-treatment of waste for incineration or co-incineration** | 5.3. a(iii) pre-treatment of waste for incineration or co-incineration5.3. b(ii) pre-treatment of waste for incineration or co-incineration |
| **Treatment in shredders of metal waste** | 5.3. a(v) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.5.3. b(iv) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components. |
|  | **Treatment waste electrical and electronic equipment** | 5.3. a(v) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.5.3. b(iv) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components. |
| **Physico- chemical treatment** | **Physico- chemical treatment of liquid wastes** | 5.1. (b) physico-chemical treatment5.1. (g) regeneration of acids or bases |
| **Physico- chemical treatment of solid wastes** | 5.1. (b) physico-chemical treatment5.1. (f) recycling/reclamation of inorganic materials other than metals or metal compounds; 5.1. (h) recovery of components used for pollution abatement; 5.1. (i) recovery of components from catalysts |
| **oil re- refining** | 5.1. (j) oil re-refining or other reuses of oil |
| **solvent regeneration** | 5.1. (e) solvent reclamation/regeneration; |

Attention should be paid to the BAT- conclusions, as they are a chapter of special significance. Therefore, a separate chapter is proposed for the BAT- conclusions.

*The structure of the WT- bref is proposed as follows:*

**Preface**

**Scope**

# Common techniques

## General Information

## Common applied processes and techniques

## Current consumption and emission levels

## Techniques to consider in the determination of BAT

## Emerging techniques

# Biological treatment

## Biological treatment of source separated bio- waste

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Mechanical-biological treatment of municipal solid waste (msw)

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

# Mechanical treatment of waste

## Pre-treatment of waste for incineration or co-incineration

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Treatment in shredders of metal waste

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Treatment waste electrical and electronic equipment

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

# Physico- chemical treatment

## Physico- chemical treatment of liquid wastes

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Physico- chemical treatment of solid wastes

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Oil re- refining

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

## Solvent regeneration

### General Information

### Common applied processes and techniques

### Current consumption and emission levels

### Techniques to consider in the determination of BAT

### Emerging techniques

# BAT conclusions

## SCOPE

## DEFINITIONS

## INFORMATION EXCHANGE

## GENERAL CONSIDERATIONS

## REFERENCE CONDITIONS

## General BAT conclusions

### Environmental management systems (EMS)

### Resource efficiency

### Mixing and blending

### Reception, handling and storage

## BAT conclusions for biological treatment

### General primary techniques

### BAT conclusions for the treatment of source separated bio- waste

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the mechanical-biological treatment of municipal solid waste (msw)

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

## BAT conclusions for the mechanical treatment of waste

### General primary techniques

### BAT conclusions for the Pre-treatment of waste for incineration or co-incineration

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the treatment in shredders of metal waste

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the treatment of waste electrical and electronic equipment

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

## BAT conclusions for physico- chemical treatment

### General primary techniques

### BAT conclusions for the physico- chemical treatment of liquid wastes

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the physico- chemical treatment of solid wastes

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the solvent regeneration

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

### BAT conclusions for the oil re- refining

#### Monitoring

#### Energy consumption

#### Emissions to air

#### Emissions to water

# CONCLUDING REMARKS AND RECOMMENDATIONS FOR FUTURE WORK

**Annex I of Directive 2010/75/EU.**

5. Waste management

5.1. Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving one or more of the following activities:

(a) biological treatment;

(b) physico-chemical treatment;

(c) blending or mixing prior to submission to any of the other activities listed in points 5.1 and 5.2;

(d) repackaging prior to submission to any of the other activities listed in points 5.1 and 5.2;

(e) solvent reclamation/regeneration;

(f) recycling/reclamation of inorganic materials other than metals or metal compounds;

(g) regeneration of acids or bases;

(h) recovery of components used for pollution abatement;

(i) recovery of components from catalysts;

(j) oil re-refining or other reuses of oil;

(k) surface impoundment.

5.3.

(a) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC of 21 May 1991 concerning urban waste-water treatment(1) OJ L 135, 30.5.1991, p. 40.:

(i) biological treatment;

(ii) physico-chemical treatment;

(iii) pre-treatment of waste for incineration or co-incineration;

(iv) treatment of slags and ashes;

(v) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.

(b) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, and excluding activities covered by Directive 91/271/EEC:

(i) biological treatment;

(ii) pre-treatment of waste for incineration or co-incineration;

(iii) treatment of slags and ashes;

(iv) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.

When the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day.

5.5. Temporary storage of hazardous waste not covered under point 5.4 pending any of the activities listed in points 5.1, 5.2, 5.4 and 5.6 with a total capacity exceeding 50 tonnes, excluding temporary storage, pending collection, on the site where the waste is generated