



MAPPING SUSTAINABILITY CRITERIA OF ISO 13065 IN EUROPEAN FRAMEWORK

INTRODUCTION

This document presents an overlay of ISO 13065:2015, *Sustainability criteria for bioenergy* and where this international standard overlaps with legal and European Standard requirements concerning sustainability criteria. ISO developed a generic standard of which all criteria have been scrutinized by CEN Technical Committee 383 whether – based on the EU framework – a specific (minimum) EU response is required or recommended. ISO 13065 provides for each criterion one or more indicators that can be considered when analysing the EU response.

This mapping is intended to provide ‘simple’ responses, not to provide text to be included in a possible CEN deliverable. The objective is to allow producers using ISO 13065 for the analysis of the sustainability of their feedstock to check for the European binding requirements towards the feedstock to be used as sustainable energy source.

NOTE This document is prepared in the period of 2015 and 2016 and reflects the situation at that time.

DEFINITIONS

Table 1 provides definitions related to scope, as used in the European Directive 2009/28/EC and EN 16214-1:2012.

Table 1 – Definitions related to scope

Term	Directive 2009/28/EC and EN 16214-1	ISO 13065
Bioenergy		energy derived from biomass Note 1 to entry: Biomass can be processed into solid, liquid or gaseous fuels or stored energy in biomass can be directly converted into other forms of energy (e.g. heat, light).
Biofuel	liquid or gaseous fuel for transport produced from biomass	
Bioliquid	liquid fuel for energy purposes other than for transport, including electricity and heating and cooling, produced from biomass	

SUSTAINABILITY CRITERIA

Table 2 provides an overview of sustainability criteria in ISO 13065 that has a link with the legal European framework and/or the European standards.

Table 2 – Mapping of sustainability criteria of ISO 13065 within European framework

Criterion ISO 13065	EU framework	EN standard
Environmental criteria		
[5.2.1.1] Lifecycle GHG emissions and GHG removals The economic operator provides information regarding life cycle GHG emissions and GHG removals.	Legal requirements: <ul style="list-style-type: none"> Calculation methodology as laid down in Directive 2009/28/EC, part C of Annex V including Decision 2010/335/EU and amendment according to Directive (EU) 2015/1513 	EN 16214-4 whole part of this standard
[Clause 6] Greenhouse gas methodologies, assessments and comparisons		

Mapping sustainability criteria of ISO 13065 in European framework (version 2016)

Criterion ISO 13065	EU framework	EN standard
	<ul style="list-style-type: none"> • Minimum GHG emission savings as laid down in Directive 2009/28/EC, article 17, clause 2, and amended by Directive (EU) 2015/1513 • Status of land concerning of high carbon stocks in January 2008 as laid down in Directive 2009/28/EC, article 17, clause 4 <p>Additional guidance:</p> <ul style="list-style-type: none"> • Clarification given in Communication 2010/C 160/01, especially chapter 3, and Communication 2010/C 160/02, especially chapter 3 and section 4.1 	
<p>[5.2.2.1] Water quantity and quality The economic operator provides information on how water quantity and quality resulting from water withdrawals and releases are addressed.</p>		
<p>[5.2.3.1] Soil quality and productivity The economic operator provides information on how soil quality and productivity are addressed.</p>	<p>Legal requirements:</p> <ul style="list-style-type: none"> • Linked to status of land concerning of high carbon stocks in January 2008 as laid down in Directive 2009/28/EC, article 17, clause 4 	
<p>[5.2.4.1] Air quality The economic operator provides information on how air emissions are addressed.</p>		
<p>[5.2.5.1] Biodiversity within the area of operation The economic operator provides information on how biodiversity values are addressed within the area of operation for the process being assessed and the environment directly influenced by the economic operator.</p>	<p>Legal requirements:</p> <ul style="list-style-type: none"> • Status of land concerning high biodiverse value in or after January 2008 as laid down in Directive 2009/28/EC, article 17, clause 3 • Definition of highly biodiverse grasslands as laid down in Regulation (EU) No 1307/2014 <p>Additional guidance:</p> <ul style="list-style-type: none"> • Clarification given in (2010/C 160/02), especially section 4.2 	<p>EN 16214-3, Figure 1 directs to relevant parts in Directive 2009/28/EC or clauses in EN 16214-3; highly biodiverse non-natural grassland in Clause 7 and peatlands in Clause 8</p>

Mapping sustainability criteria of ISO 13065 in European framework (version 2016)

Criterion ISO 13065	EU framework	EN standard
<p>[5.2.5.2] Biodiversity-protected areas The economic operator provides information on how biomass removal is addressed from areas designated as biodiversity-protected areas under applicable national laws and regulations within International Union for Conservation of Nature (IUCN) categories I – III.</p>	<p>Legal requirements:</p> <ul style="list-style-type: none"> • Status of land concerning high biodiverse value in or after January 2008 as laid down in Directive 2009/28/EC, article 17, clause 3 • Definition of highly biodiverse grasslands as laid down in Regulation (EU) No 1307/2014 <p>Additional guidance:</p> <ul style="list-style-type: none"> • Clarification given in (2010/C 160/02), especially section 4.2 	<p>EN 16214-3, Figure 1 directs to relevant parts in Directive 2009/28/EC or clauses in EN 16214-3; nature protection areas covered in Clause 6</p>
<p>[5.2.6.1] Energy resources The economic operator provides information on how energy use and efficiency are addressed.</p>		
<p>[5.2.7.1] Waste management The economic operator provides information on how wastes are addressed.</p>		
<p>Social criteria</p>		
<p>[5.3.1.1] Universal Declaration of Human Rights The economic operator provides information on how the Universal Declaration of Human Rights is addressed.</p>		
<p>[5.3.2.1] Forced or compulsory labour The economic operator provides information on how forced or compulsory labour is addressed.</p>		
<p>[5.3.2.2] Child labour The economic operator provides information on how child labour is addressed.</p>		
<p>[5.3.2.3] Collective bargaining rights The economic operator provides information on how collective bargaining rights are addressed.</p>		
<p>[5.3.2.4] Working conditions The economic operator provides information on how working conditions including social security and workplace health and safety are addressed.</p>		

Mapping sustainability criteria of ISO 13065 in European framework (version 2016)

Criterion ISO 13065	EU framework	EN standard
[5.3.3.1] Land use rights and land use change The economic operator provides information on how land use rights are addressed.		
[5.3.4.1] Water availability in water-scarce countries The economic operator in water-scarce countries provides information on how water availability for human consumption and food production are addressed.		
Economic criteria		
[5.4.1.1] Fair business practices The economic operator provides information on fraudulent, deceptive or dishonest commercial business and consumer practices.		
[5.4.1.2] Financial risk management The economic operator provides information on financial risk management.		
General		
[4.10] Traceability	Legal requirements: <ul style="list-style-type: none"> • Mass balance system as laid down in Directive 2009/28/EC28, article 18, clause 1 • Information provision as laid down in Decision 2011/13/EU 	CEN/TS 16214-2, Clause 6 with requirements for chain of custody control - mass balance method

ADDITIONAL INFORMATION

This document refers to the following standards:

- **EN 16214-1:2012**, *Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology*
- **CEN/TS 16214-2:2014**, *Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 2: Conformity assessment including chain of custody and mass balance*
- **EN 16214-3:2012**, *Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 3: Biodiversity and environmental aspects related to nature protection purposes*
- **EN 16214-4:2013**, *Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach*
- **ISO 13065:2015**, *Sustainability criteria for bioenergy*