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certification scheme for  
wood pellets.



# ENplus<sup>®</sup> Documentation - Main changes

An overview of revision changes

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This document provides comparison between the ENplus® revised documentation ENplus® ST 1001, ENplus® ST 1002 and ENplus® ST 1003 and the current ENplus® Handbook, version 3.0.

## Structure of the ENplus® documentation

The structure of the ENplus® documentation has been comprehensively revised. Each of the three standards (ENplus® ST 1001, 1002 and 1003) are focused on a different process and on a different actor. Companies within the wood pellets supply chain are primarily affected by and expected to comply with ENplus® ST 1001 and ENplus® ST 1003. Certification and testing bodies shall follow ENplus® ST 1002.

Standard	Process	Actor
ENplus® ST 1001: ENplus® wood pellets – Requirements for companies	Implementation of ENplus® requirements by companies	Companies (Producers, Traders and Service Providers)
ENplus® ST 1002:  Requirements for certification and testing bodies operating ENplus® certification	Certification process	Certification body (including inspection and testing body)
ENplus® ST 1003  Usage of the ENplus® trademarks - Requirements	Usage of the ENplus® trademark	Companies and other users

## Transition to the new ENplus® documentation

Transition period from the ENplus® Handbook (version 3.0) to the new ENplus® documentation is defined in chapter Foreword of each ENplus® document.

### Transition period for companies applying for their first ENplus® certification:

- a) **1 October 2022 – 1 January 2023:** Companies can choose to become evaluated against ENplus® Handbook (version 3.0) or new standards ENplus® ST 1001 and ENplus® ST 1003;
- b) **After 1 January 2023:** All companies shall be evaluated against new standards ENplus® ST 1001 and ENplus® ST 1003.

### Transition period for companies ENplus® certified before 1 January 2023:

- a) **1 October 2022 – 1 January 2024:** Companies can choose to become evaluated against ENplus® Handbook (version 3.0) or new standards ENplus® ST 1001 and ENplus® ST 1003;
- b) **After 1 January 2024:** All companies shall be evaluated against new standards ENplus® ST 1001 and ENplus® ST 1003.

### Transition period for certification, inspection and testing bodies:

- a) **1 October 2022 – 1 January 2024:** Certification, inspection and testing bodies shall meet requirements of ENplus® Handbook (version 3.0) where evaluation is carried out against ENplus® Handbook (version 3.0) and ENplus® ST 1002 where evaluation is carried out against ENplus® ST 1001 and ENplus® ST 1003;
- b) **After 1 January 2024:** Certification, inspection and testing bodies companies shall meet requirements of ENplus® ST 1002 where evaluation is carried out against ENplus® ST 1001 and ENplus® ST 1003.
- c) Specific transition period **until 1 January 2025** is defined for new accreditation requirements of ENplus® ST 1002.

## Critical areas:

The following areas are considered as critical changes. They are indicated in the table below but also marked in red in the following respective tables.

ENplus® ST 1001	ENplus® ST 1002	ENplus® ST 1003
Scope of ENplus® requirements	Role of the conformity assessment bodies	General principles/structure of the document
Big bags approach	Accreditation of conformity assessment bodies	Usage of the ENplus® trademarks by uncertified companies
Definition small- and large-scale delivery	Multisite certification approach	Serial number in the ENplus® bag design
Multisite certification approach	Inspection schedule, especially additional testing of pellets	
Pellets parameters		
Physical separation of pellets		
Mass balance account		
Self-monitoring		
Transport vehicles for small scale delivery		
Vending machines		
Traceability		
Reference samples		

## ENplus® ST 1001: ENplus® wood pellets – Requirements for companies

ENplus® ST 1001	ENplus® Handbook, v 3.0	Note
<b>Foreword</b>	Part 1 – 5, Preface	
<b>Introduction</b>	Part 1 - 5, Preface	
<b>1. Scope</b>	Part 1, chapter 2	
1.1	Part 1, 3, 4	The scope of the ENplus® requirements will only focus on quality of pellets and exclude aspects relating to sustainability and GHG calculation.
1.2	Part 1	The new documentation defines three areas of requirements: i) raw material and product properties, ii) production, handling and trading processes, and iii) quality management system.
1.3	Preface	The new documentation is based on single international standards that are applicable worldwide.  The standard directly states where "national specifications" can be developed and applied (e.g. the storage guidelines).
<b>2. Normative references</b>	Part 1-5, Normative references	
<b>3. Terms and Definitions</b>	Part 1, Terms and Definitions	<b>Big bags</b> are considered as bulk pellets (regardless if sealed or unsealed) and the requirements for bulk pellets will therefore apply.  Part load and Full load definitions have been changed to <b>small</b> and <b>large-scale delivery</b> while the weight of the delivery is the only criterion.  The concept of " <b>affiliated companies</b> " has been changed to " <b>multisite companies</b> ".  The terms defined in chapter "Terms and Definitions" are marked "bold" in the text of the ENplus® documentation.
<b>4. General Requirements</b>		
4.1	Part 2, 3.1	Scope of Producers' certification defines activities for which the company shall implement Producer related requirements.  The document also defines "Critical Business Activities" (Annex B) that is used to apply predefined scope of ENplus certification.
4.2	Part 2, 4.1	Scope of Traders' certification defines activities for which the company shall implement Trader related requirements.  Certification of Traders of bagged pellets is limited to companies that are bagging the pellets or are "Bag design owners". Other companies trading bagged pellets cannot apply for the ENplus® certification but can use the ENplus® Trademarks based on special provisions of ENplus® ST 1003 (7.1.2 or 7.1.3).

4.3	Part 2, 5.1	<p>Scope of Service Providers certification defines activities for which the company shall implement relevant requirements for Traders.</p> <p>Certification of Service Providers is limited to those companies offering (a) bagging of pellets; (b) small-scale delivery of pellets; and (c) storage of bulk pellets in a facility from which the pellets are delivered to end-users. All other companies are considered as “other sub-contractors” to ENplus® certified companies and cannot apply for their own individual certification. The standard requires that the Service Providers shall comply with the applicable requirements for Traders.</p>
4.4	Part 2, 2.2	<p><b>Multisite certification:</b> the concept of multisite certification (see also ENplus® ST 1002, Annex E) describes requirements for any scenario where certification covers more sites, including a group of separate legal entities (Producers or Traders) and a company with its service providers. ENplus® ST 1001, 4.4 describes eligibility criteria for a multisite company while ENplus® ST 1002 (Annex E) defines certification procedures for those companies.</p>
4.5	Part 2, 2.2	Multisite certification
4.6		<p>Multisite certification: The Producers can only include in a multisite company those production sites that are located in one country.</p> <p>Germany is excluded from creating a cross-country multisite company.</p>
4.7	Part 2, 2.2	<p>Multisite certification</p> <p>Eligibility shall be approved by the relevant ENplus® scheme management.</p>
<b>5. Requirements for Producers</b>	Part 2, chapter 3 Part 3	All requirements for Producers relating to pellets properties and production/trading process are integrated in chapter 5.
<b>5.1 Product requirements</b>	Part 3	
5.1.1 Quality classes	Part 3, chapter 2	Quality classes: ENplus® ST 1001, clause 5.1.1.1 requires the Producers to comply with the pellets properties that are described in Annex A of the document. A number of changes have been made to the pellets' properties (see also Annex A of this document).
5.1.2 Requirements on raw material	Part 3, chapter 3	ENplus® ST 1001, chapter 5.1.2 requires the Producers to comply with the pellets properties that are described in Annex A.2 of the document.
5.1.3 Requirements on additives	Part 3, chapter 4	ENplus® ST 1001, chapter 5.1.2 requires the Producers to comply with the pellets additives that are described in Annex A.3 of the document.
<b>5.2 Process requirements</b>	Part 2, chapter 3	
<b>5.2.1 Incoming goods</b>	Part 2, 3.4.4	
5.2.1.1	Part 2, 3.4.4	Verification and acceptance of raw material: ENplus® ST 1001 describes in a more precise way the process of verification and acceptance of raw material with reference to Annex A for requirements on raw material and additives.
5.2.1.2	Part 2, 3.4.4	Documentation for the raw material

<b>5.2.2 Production process</b>	Part 2, 3.4.4	
5.2.2.1	Part 2, 3.4.4	Maintenance of installations and equipment, their calibration
5.2.2.2	Part 2, 3.4.4	Documentation related to the maintenance and calibration of equipment
5.2.2.3		<b>Physical separation of ENplus® certified pellets:</b> ENplus® ST 1001 requires that ENplus® certified products, classes and diameters shall be physically separated during the production and trading process. This requirement together with requirements for delivery documentation on sold pellets and a mass balance account provides basis for chain of custody requirements, i.e. to ensure that the company is not selling more ENplus® certified products that it has produced.
5.2.2.4	Part 2, 2.5	Usage of the approved bag designs:  ENplus® ST 1001 requires that the Producer shall only use for bagging those bag designs that have been approved by the ENplus® scheme management. The Producer shall (i) either be the "bag design owner" (apply for and receive approval for its own bag design) or (ii) receive a permission from the "bag design owner" (when it bags pellets on behalf of its customer). ENplus® ST 1001 also requires that the bagged pellets shall comply to the information on the approved bag design.
<b>5.2.3 Outgoing goods</b>		
5.2.3.1		Separation of fines:  The requirement for separation of fines originally only required for Traders (ENplus® Handbook, 3.0, part 2, 4.4.2) is also required for Producers. An exemption is allowed for B2B delivery where avoidance of the fines separation is agreed with a customer.
5.2.3.2	Part 2, 3.4.4	Pellets temperature:  ENplus® ST 1001 includes requirements for measurement of the temperature of outgoing pellets and limits the trade with the pellets when the temperature exceeds 40 °C. Pellets with the temperature over 40 °C (i) shall not be sold to end-users and (ii) shall only be sold to other customers (B2B) with communication on the increased temperature and related risks.
5.2.3.3		Separation of fines required in case of re-loading the pellets
5.2.3.4		Requirements for big bags:  ENplus® ST 1001 requires a water repellent plastic for big bags, a closure of an opening, and information on ENplus® certification to be attached.
5.2.3.5		Vehicles for large-scale delivery used for other products than pellets shall not contaminate the transported pellets.
<b>5.2.4 Self-monitoring</b>	Part 2, 3.4.5	
5.2.4.1	Part 2, 3.4.5	Self-monitoring:

		Self-monitoring is defined specifically for pellets production (Table 1) and for bulk pellets loading / bagging (Table 2). Frequency is simplified and is defined specifically for each parameter. Production process is required to monitor overlength, moisture and mechanical durability. The loading/bagging (Table 2) requires to monitor overlength, fines and temperature.
5.2.4.2		Increase in the self-monitoring frequency:  ENplus® ST 1001 requires to increase the frequency of the self-monitoring in case of doubts of the pellets' quality and in case of technological/input raw material changes.
5.2.4.3		Self-monitoring in short/integrated processes (production plus bagging):  ENplus® ST 1001 allows to make self-monitoring at the end of the process using output bagged pellets.
5.2.4.4		Self-monitoring of other parameters:  ST 1001 requires self-monitoring of other parameters where the certification body's testing resulted in "close-to-threshold" values.
<b>5.2.5 Delivery documentation</b>	Part 2, 3.4.7	
5.2.5.1	Part 2, 3.4.7	Content of the delivery documentation:  ENplus® ST 1001 does not require for the delivery documentation to include information on "prior freight". This information shall be communicated to a customer but the company can choose other means. In case of bagged pellets, delivery documentation shall allow identification of the bag design approval number.
5.2.5.2	Part 2, 3.4.7	Communication on fines:  ENplus® ST 1001 requires to communicate content of fines for B2B delivery without separation of fines.
5.2.5.3		Mass balance account:  ENplus® ST 1001 requires the company to keep an account (Mass Balance Account) relating to the production and sales of ENplus® certified products. This account provides overview of input and output transactions with references to primary documentation (e.g. invoices). The mass balance account is the key component of the chain of custody with the objective to ensure and control that the company is not selling more ENplus® certified products that it procures.
<b>6. Requirements for Traders</b>	Part 2, chapter 4	
<b>6.1 Product requirements</b>		
6.1.1		The trader with bagging activities shall ensure pellets' compliance with Annex A for specific pellets properties.
6.1.2		Traders with bulk pellets shall ensure compliance with requirements for content of fines. Other



		parameters of Annex A is ensured through compliance with the process requirements.
6.1.3	Part 3, chapter 4	Post-production additives
<b>6.2 Process requirements</b>	Part 2, chapter 4	
<b>6.2.1 Incoming goods</b>	Part 2, 4.4.3	
6.2.1.1	Part 2, 4.4.3	Process for acceptance of incoming goods: General requirement to establish a process of acceptance for incoming pellets.
6.2.1.2	Part 2, 4.4.3	Verification of the delivery documentation:  Acceptance of the ENplus® certified pellets is based on ENplus® related claims made in the delivery documentation.
6.2.1.3		Verification of the supplier's certified status:  ENplus® ST 1001 requires that only deliveries from an ENplus® certified supplier can be considered as "ENplus® certified".
6.2.1.4	Part 2, 4.4.3	Documentation to be retained for incoming goods
6.2.1.5		Physical separation of ENplus® certified products, classes, diameter.  This is one of the principal requirements for the chain of custody with the objective to ensure that the company is not selling more ENplus® certified products that it bought.
<b>6.2.2 Facilities and Equipment</b>	Part 2, 4.4.2, 4.4.3	
6.2.2.1	Part 2, 4.4.3	Maintenance of installations and equipment, and their calibration
6.2.2.2	Part 2, 4.4.3	Documented information related to trading activities
6.2.2.3		Usage of the approved bag designs (bagging of pellets):  ENplus® ST 1001 requires that the Producer shall only use for bagging those bag designs that have been approved by the ENplus® scheme management. The Trader shall (i) either be the "bag design owner" (apply for and receive approval for its own bag design) or (ii) receive a permission from the "bag design owner" (when it bags pellets on behalf of its customer). ENplus® ST 1001 also requires that the bagged pellets shall comply to the information on the approved bag design.
<b>6.2.3 Outgoing goods</b>	Part 2, 4.4.2, 4.4.3	
6.2.3.1	Part 2, 4.4.2	Separation of fines:  The requirements for the equipment for separation of fines. An exception is only allowed for B2B deliveries based on customer's specifications.
6.2.3.2	Part 2, 4.4.3	Pellets temperature:  ENplus® ST 1001 includes requirements for measurement of the temperature of outgoing pellets and limits the trade with the pellets when the temperature exceeds 40 °C. Where the

		temperature exceeds 40 °C, the Trader (i) shall not sell the pellets to the end-user and (ii) shall only sell the pellets to another company (B2B) with the communication on the increased temperature and related risks.
6.2.3.3	Part 2, 4.4.2	Separation of fines in case of re-loading the pellets
6.2.3.4	Part 2, 4.4.2	Transport vehicles for small-scale delivery:  ENplus® ST 1001 does not limit the use of a technology (e.g. the rotary feeder) but instead it focuses on expected outcomes, i.e. the technology used does not generate significant amount of fines. ENplus® ST 1001 includes a requirement that for any transport vehicle for small-scale delivery, the company shall demonstrate the vehicles compliance by two alternative means: (i) usage of a technology that has been approved by the ENplus® Scheme Management or (ii) by another testing of the technology.
6.2.3.5	Part 2, 4.4.8	A list of transport vehicles for small-scale delivery  ENplus® ST 1001 requires to keep a list of all transport vehicles for small-scale delivery
6.2.3.6	Part 2, 4.4.2	Usage of a coating device in a delivery
6.2.3.7	Part 2, 4.4.2	Low abrasion feeding system for small-scale delivery is mandatory without exceptions.
6.2.3.8	Part 2, 4.4.2	Extracted or vented air during the small-scale delivery to be filtered. This is a mandatory requirement without exceptions.
6.2.3.9	Part 2, 4.4.2	On-board calibrated weighting system for small-scale deliveries.
6.2.3.10		Personal CO detector for small-scale deliveries.
6.2.3.11	Part 2, 4.4.6	Vehicles used for other products than pellets shall not contaminate the transported pellets.
6.2.3.12		Requirements for big bags:  ENplus® ST 1001 requires a water repellent plastic for big bags, a closure of an opening and information on ENplus® certification to be attached.
6.2.3.13		Requirements for vending machines
<b>6.2.4 Self-monitoring</b>	Part 2, 4.4.4	
6.2.4.1	Part 2, 4.4.4	Self-monitoring:  ENplus® ST 1001 requires self-monitoring for fines (3.15 mm) and temperature.
6.2.4.2		Increase in the self-monitoring frequency:  ENplus® ST 1001 requires to increase the frequency of the self-monitoring in case of doubts of the pellets' quality and in case of technological/input material changes.
6.2.4.3		Visual inspection of pellets quality and cleanliness of a transport vehicle.
<b>6.2.5 Delivery documentation</b>	Part 2, 4.4.6, 4.4.7	
6.2.5.1	Part 2, 4.4.6	Content of the delivery documentation:

		ENplus® ST 1001 does not require that the delivery documentation shall include "prior freight". This can be communicated by other means.
6.2.5.2	Part 2, 4.4.7	Delivery documentation – small-scale delivery
6.2.5.3		Communication on fines above 1 %:  ENplus® ST 1001 makes the requirement to communicate the increased content of fines mandatory for deliveries to another company (B2B). Pellets with fines above 1 % shall not be delivered to end-users.
6.2.5.4		Mass balance account:  ENplus® ST 1001 requires the company to keep an account (Mass Balance Account) relating to the procurement and sales of ENplus® certified products. This account provides overview of input and output transactions with references to primary documentation (e.g. invoices). The mass balance account is the key component of the chain of custody with the objective to ensure and control that the company is not selling more ENplus® certified products than it procures.
<b>7. Management system requirements</b>	Part 2, 3.4.1, 3.4.2, 4.4.1, 4.4.5, 5.4.1, 5.4.2	The management requirements are common for all companies (Producers, Traders and Service Providers).
<b>7.1 Organisational roles, authorities, and responsibilities</b>	Part 2, 3.4.1, 4.4.1, 5.4.1	
7.1.1		Responsibilities and authorities:  ENplus® ST 1001 requires the company to define responsibilities and authorities of personnel with an impact on pellets quality.
7.1.2	Part 2, 3.4.1, 4.4.1, 5.4.1	Quality manager:  ENplus® ST 1001 requires the company to have a quality manager.
7.1.3	Part 2, 3.4.1, 4.4.1, 5.4.1	Quality manager requirements
<b>7.2 Support</b>		
<b>7.2.1 Resources</b>		
7.2.1.1		ENplus® ST 1001 requires the company to provide resources for quality management
7.2.1.2		ENplus® ST 1001 requires the company to provide personnel for quality management
7.2.1.3	Part 2, 3.4.1, 4.4.1, 5.4.1	Infrastructure requirements
<b>7.2.2 Competence</b>	Part 2, 3.4.2, 4.4.2, 5.4.2	
7.2.2.1		ENplus® ST 1001 requires the company to define competence of its personnel
7.2.2.2	Part 2, 3.4.2, 4.4.2, 5.4.2	Quality manager training
7.2.2.3	Part 2, 3.4.2, 4.4.2, 5.4.2	Training of personnel
7.2.2.4	Part 2, 3.4.2, 4.4.2, 5.4.2	Training of drivers for small-scale delivery
7.2.2.5		ENplus® ST 1001 requires the company to retain documentation on the required training.
<b>7.2.3 Documented information</b>		
7.2.3.1		ENplus® ST 1001 requires the company to maintain and control its documented information

<b>7.2.4 External resources</b>		ENplus® ST 1001 requires the company to control external resources. As an external resource are considered:  a) Service providers; b) Other sub-contractors for activities that are regulated by ENplus® ST 1001.
<b>7.3 Performance evaluation</b>	Part 2, 3.4.4, 4.4.4, 5.4.4	
<b>7.3.1 Self-monitoring</b>	Part 2, 3.4.5, 4.4.4, 5.4.4	
7.3.1.1		General requirement that are applicable to the self-monitoring as required under the process requirements (chapter 5 and 6).
7.3.1.2	Part 2, 3.4.5, 4.4.4, 5.4.4	Sampling and testing methods:  ENplus® ST 1001 requires compliance with ISO 17225-2, any alternative methods shall be approved by the certification body.
7.3.1.3		Testing by the certification body provides a comparative measurement for the self-monitoring methods.
7.3.1.4	Part 2, 3.4.3, 4.4.3, 5.4.3	Maintenance, calibration and validation of testing devices
7.3.1.5	Part 2, 3.4.3, 4.4.3, 5.4.3	Documented information for self-monitoring
<b>7.3.2 Non-conforming products</b>		
7.3.2.1		Control of non-conforming products:  ENplus® ST 1001 requires the company to control unintended use of non-conforming products and to resolve cause of the found non-conformity.
7.3.2.2		ENplus® ST 1001 requires the company to keep records on the control of non-conforming products
7.3.2.3		Traceability:  The purpose of the traceability is to enable identification of cause of non-conforming products within the supply chain.  ENplus® ST 1001 requires the company to demonstrate its ability to identify suppliers of the sold bulk pellets.
7.3.2.4		Traceability for bagged pellets:  ENplus® ST 1001 requires the company to identify the company that was responsible for bagging of pellets, date, site and bagging line. This shall be done by a serial number printed on the bag.
<b>7.3.3 Reference samples</b>	Part 2, 2.7	
7.3.3.1		Producers to take a reference sample of 1.5 kg per production day.
7.3.3.2	Part 2, 2.7	Reference sample to be taken by Producers / Trader operating a loading station for small-scale delivery (1.5 kg per delivery day)
7.3.3.3		Reference sample for a vending machine (1.5 kg per month)
7.3.3.4	Part 2, 2.7	Control of reference samples
<b>7.3.4 Complaints</b>	Part 2, 3.4.6, 4.4.5	
7.3.4.1	Part 2, 3.4.6, 4.4.5	General requirement for control of complaints

7.3.4.2		Complaints to be processed in the customer's language.
7.3.4.3	Part 2, 3.4.6, 4.4.5	The company is responsible for complaints relating to its service providers and other sub-contractors.
7.3.4.4	Part 2, 3.4.6, 4.4.5	Personnel responsible for the complaints' management
7.3.4.5	Part 2, 3.4.6, 4.4.	Complaints resolution process
7.3.4.6		Information to complainant in case of the complaint rejection. Where the company reject a complaint as not relating to the company's operation, it shall provide the complainant with information on where to submit its complaint.  The requirement is not applicable in Germany.
7.3.4.7	Part 2, 3.4.6, 4.4.5	Conditions for acceptance of a complaint (small-scale delivery)
7.3.4.8	Part 2, 3.4.6, 4.4.5	Complaints relating to bagged pellets and big bags.
7.3.4.9	Part 2, 3.4.6, 4.4.5	Testing as a part of the complaints' management
7.3.4.10		Reimbursement of complaints related testing costs.
<b>7.4 ENplus® trademarked material usage and communication</b>		
7.4.1	Part 2, 2.4	Usage of the ENplus® trademarks:  All ENplus® trademark related requirements, including the bag design, are covered in ENplus® ST 1003. ENplus® ST 1001, 7.4.1 requires companies to comply with ENplus® ST 1003. This means that ENplus® certified company shall comply with two standards: ENplus® ST 1001 and ENplus® ST 1003.
7.4.2		Communication on pellets parameters included in Annex A.
7.4.3		Communication on length < 10 mm in the delivery documentation for a small-scale delivery
<b>7.5. Reporting requirements</b>		
7.5.1	Part 2, 3.4.9, 4.4.9, 5.4.9	Information to be submitted by the company to the certification body.  This is additional to the information collected by the certification body during the certification process.
7.5.2	Part 2, 3.4.9, 4.4.9, 5.4.9	Information to be submitted by companies to the scheme management:  ENplus® ST 1001 clearly describes which information shall be provided by companies directly to the ENplus® scheme management.
<b>Bibliography</b>		
		Includes external documents that are not referenced in the standard but provides additional sources of information
<b>Annex A</b>		
<b>A.1 Classes</b>	Part 3, chapter 2	ENplus® ST 1001 includes new parameters as well as amendments in the parameters' values. Annex A of this document shows the changes in the pellet's parameters.
<b>A.2 Raw material</b>	Part 3, chapter 3	
<b>A.3 Additives</b>	Part 3, chapter 4	

<b>Annex B</b>		<p>Critical Business Activities and ENplus® certification scope:</p> <p>The Annex defines the optional certification scope of the ENplus® certification using “Critical Business Activities”.</p>
<b>Annex C</b>		<p>Documented information: includes a summary of documented information to be kept by the company</p>

# ENplus® ST 1002: Requirements for certification and testing bodies operating ENplus® certification

The document defines all applicable requirements for the certification process. It is the certification body's responsibility to ensure compliance with this document. The document is based on and uses the structure of ISO / IEC 17065 and provides additional requirements that are relevant to the ENplus® certification.

In contrast with Handbook, v3.0, the certification body is solely responsible for the whole certification process, and it is the certification body's own decision whether it will use sub-contractors (an inspection and testing body) for parts of the certification process or will conduct all the evaluation activities with its own internal resources.

The certification body's conformity with this document will be evaluated by the accreditation bodies but also by the ENplus® scheme management as a part of the ENplus® "Certification Integrity Program".

ENplus® ST 1002 (Annex A) also requires a scheme specific accreditation that delivers an "accredited" ENplus® certification.

ENplus® ST 1002	ENplus® Handbook, v 3.0	Note
<b>Foreword</b>	Part 1 – 5, Preface	Chapter Foreword also includes the transition period from the current ENplus® Handbook (v. 3.0) to ENplus® ST 1002
<b>Introduction</b>	Part 1 - 5, Preface	
<b>1. Scope</b>	Part 1, chapter 2	
<b>1.1</b>		The document applies to all certification and testing bodies operating outside Germany where DEPI developed its own document ENplus DE ST 1002.
<b>2. Normative references</b>	Part 1-5, Normative references	
<b>3. Terms and Definitions</b>	Part 1, Terms and Definitions	
<b>4. General Requirements</b>		
4.1		ENplus® ST 1002 requires compliance with ISO / IEC 17065.
4.2	Part 4, 2.2	ENplus® ST 1002 requires certification to be conducted within the certification body's accreditation (Annex A)
<b>4.3</b>	<b>Part 4, 2.2</b>	Certification bodies shall be listed by the ENplus® International Management (Annex B).  Inspection bodies contracted by the certification body do not need to be listed by the ENplus® International Management.
4.4	Part 4, 4.2	ENplus® ST 1002 requires testing to be conducted within the testing body's accreditation (Annex A)
4.5	Part 4, 4.2	Testing bodies shall be listed by the ENplus® International Management (Annex B).
<b>4.6</b>		Certification body has to inform the client that it shall provide information obtained during the certification process to the scheme management. This is to ensure compliance with the confidentiality requirements of ISO / IEC 17065.
4.7		Language of certification: Certification body shall conduct the certification in a language agreed with

		the company. ENplus® ST 1002 defines documentation that shall be available in English.
<b>5 Structural requirements</b>		ENplus® ST 1002 requires compliance with ISO / IEC 17065 (Structural requirements).
<b>6 Resource requirements</b>		
<b>6.1 Certification body personnel</b>		
<b>6.1.1 General</b>		
6.1.1.1		General requirements for competencies of the certification body's personnel
<b>6.1.2 ENplus® Programme manager</b>		ENplus® ST 1002 includes requirements for the ENplus® programme managers.
<b>6.1.3 Inspectors</b>		
<b>6.1.3.1 General Requirements</b>		
6.1.3.1.1		ENplus® ST 1002 requires that inspectors shall comply with specific requirements of ISO 19011
<b>6.1.3.1.2</b>		Certification body has responsibility for competence of its own inspectors as well as those of contracted inspection body.
<b>6.1.3.2 Education</b>		
<b>6.1.3.2.1</b>		ENplus® ST 1002 requires inspectors to have specific education in forest-based sector or related industries
<b>6.1.3.2.2</b>		The required education can be replaced by the work experience in the specific sectors.
<b>6.1.3.3 ENplus® training and workshops</b>		
6.1.3.3.1		ENplus® ST 1002 requires the inspectors to attend the ENplus® recognised training and workshops
6.1.3.3.2		
<b>6.1.3.4 Work experience</b>		
6.1.3.4.1		ENplus® ST 1002 requires work experience of inspectors in forest-based sector or related industries.
<b>6.1.3.5 Inspection experience</b>		
6.1.3.5.1		ENplus® ST 1002 requires inspection experience of inspectors
6.1.3.5.2		ENplus® ST 1002 defines ENplus® relating knowledge and skills.
<b>6.1.3.5.3</b>		ENplus® ST 1002 requires less demanding requirements for those inspectors that only collect samples for testing. See requirements in Annex D (D.4).
<b>6.2 Resources for evaluation</b>		
6.2.1		Certification body shall conduct inspection in compliance with ISO / IEC 17020 and testing in compliance with ISO / IEC 17025
6.2.2		Certification body may only outsource the ENplus® inspection to an accredited inspection body (Annex A)
6.2.3		Certification body may only outsource the ENplus® testing to a listed testing body (Annex B)
<b>7 Process requirements</b>		
<b>7.1 General requirements</b>		
7.1.1		Scope of the certification
7.1.2		Scope of multisite certification
7.1.3		Certification body to use forms designed by the ENplus® scheme management
<b>7.2 Application</b>		
7.2.1	Part 2, 3.2, 4.2, 5.2	Information to be included in the application



7.2.2	Part 2, 3.2, 4.2, 5.2	Certification body is required to submit information to the ENplus® scheme management.
7.2.3		Application review shall include evaluation of companies' previous non-conformities or ENplus® trademark frauds.
<b>7.3 Evaluation activities</b>		
<b>7.3.1 General requirements</b>	Part 2, 3.3, 4.3, 5.3	Evaluation shall include inspection and testing. In principle, the certification body shall ensure that all applicable requirements stated in ENplus® ST 1001 are evaluated
<b>7.3.2 Inspection</b>		
7.3.2.1	Part 2, 3.3, 4.3, 5.3	Content of the inspection
7.3.2.2	Part 2, 3.3, 4.3, 5.3	Inspection of transport vehicles
7.3.2.3	Part 2, 3.3, 4.3	Collection of a sample of bulk pellets
7.3.2.4	Part 2, 3.3, 4.3	Collection of a sample of bagged pellets
7.3.2.5		Collection of pellets classes/diameter that are not available on-site
7.3.2.6		Inspection of a loading station with separation of fines, collection of samples.
7.3.2.7	Part 4, 3.2, 4.2	Inspection closing meeting, inspection report
<b>7.3.3 Testing</b>		
7.3.3.1		Testing of parameters, including situation with multiple classes / diameters of pellets.
7.3.3.2		Laboratory report
<b>7.3.4 Non-conformities</b>		
7.3.4.1	Part 2, 3.3, 4.3, 5.3	Non-conformities:  ENplus® ST 1002 defines two types of non-conformities (major and minor) and observations
7.3.4.2		Resolution of non-conformities relating to the pellets parameters requires identification of non-conformity cause.
7.3.4.3	Part 2, 3.3, 4.3, 5.3	Management of non-conformities:  ENplus® ST 1002 defines actions to be taken in case of major and minor non-conformities. In contrast to Handbook, v3.0, ST 1002 defines two types of non-conformities (major and minor) and observation (see chapter definitions) and provides specific requirements for management of those non-conformities.  The company shall define corrective action for identified non-conformities that are validated, and their implementation verified by the certification body.
7.3.4.4	Part 2, 3.3, 4.3, 5.3	Management of non-conformities
7.3.4.5	Part 2, 3.3, 4.3, 5.3	Management of major non-conformities
7.3.4.6	Part 2, 3.3, 4.3, 5.3	Management of minor non-conformities
<b>7.3.5 Certification report</b>		
	Part 2, 3.3, 4.3, 5.3	Certification report:  ENplus® ST 1002 defines the content of the certification report
<b>7.4 Review</b>		
7.4.1		ENplus® ST 1002 requires that the conformity report shall be reviewed by the certification body.
<b>7.5 Certification decision</b>		

7.5.1	Part 2, 3.3, 4.3, 5.3	ENplus® ST 1002 requires the certification body to inform the ENplus® scheme management about the certification decision.
<b>7.6 Certificate</b>		
7.6.1	Part 2, 3.2, 4.2, 4.2	Certificate to be issued after the issuance of the ENplus® trademark license by the ENplus® scheme management.
<b>7.6.2</b>		<b>Content of the certificate</b>
7.6.3	Part 2, 3.2, 4.2, 4.2	Validity of the certificate, 3 years
7.6.4	Part 2, 3.2, 4.2, 4.2	Certificate to be sent to the company and to the scheme management
<b>7.7 Surveillance</b>		
<b>7.7.1</b>	<b>Part 2, 3.3, 4.3, 5.3</b>	<b>Annual surveillance, 6 months before the date of the certificate issuance.</b>
7.7.2	Part 2, 3.3, 4.3, 5.3	Inspection schedule defined in Annex D of ENplus® ST 1002
<b>7.8 Renewal of certification</b>		
7.8.1	Part 2, 3.3, 4.3, 5.3	Content and time of re-certification evaluations.  The re-certification inspection to be conducted within 6 months before the certificate expiry date.
<b>7.8.2</b>		<b>Defines a situation where re-certification activities are not completed before the expiry of the certificate</b>
<b>7.8.3</b>		<b>Defines a situation where re-certification activities are not completed before the expiry of the certificate</b>
7.8.4	Part 2, 3.3, 4.3, 5.3	Inspection schedule is defined in Annex D of ST 1002
<b>7.9 Extension of the certification scope</b>		
7.9.1		ENplus® ST 1002 defines requirements for the extension of the certification scope following evaluation and review stage.
7.9.2		ENplus® ST 1002 defines requirements for the extension of the certification scope as a part of a surveillance/recertification audit or an additional audit.
<b>7.10 Termination, reduction, suspension or withdrawal of certification</b>		
7.10.1		ENplus® ST 1002 defines requirements for the cancellation of the certification or reduction of the certification scope; information to be submitted to the ENplus® scheme management.
7.10.2		ENplus® ST 1002 defines requirements for the cancellation of the certification; actions to stop companies using the trademark.
7.10.3		ENplus® ST 1002 defines requirements for the suspension / cancellation of the certification following suspension or termination of the ENplus® trademark license.
<b>8 Management system requirements</b>		
<b>Annex A: Accreditation of CABs</b>	<b>Part 4, chapters 2, 3, 4</b>	<b>ENplus® ST 1002 requires the certification, inspection and testing bodies to carry out ENplus® evaluations as "accredited" and to have ENplus® scheme specific accreditation.</b>

		A specific transition period until 1 January 2025 is defined for the scheme specific accreditation of certification and inspection bodies.
<b>Annex B: Listing of CABs</b>		ENplus® ST 1002 requires the certification and testing bodies (only those operating as an external resource to the certification body) to be listed by the international scheme management.  The inspection bodies contracted by the certification body as an external resource do not need to be listed.
<b>Annex C: Testing standards</b>	Part 3	Defines the relevant testing standards
<b>Annex D: Inspection schedule</b>	Part 2, 3.3, 4.3, 5.3	
D.1	Part 2, 3.3, 4.3, 5.3	General requirement that inspections are annual and on-site.
<b>D.2</b>	<b>Part 2, 3.3, 4.3, 5.3</b>	<b>Defines exemptions where the inspections can be conducted as remote.</b>
D.3		Defines requirements for techniques for remote inspections.
<b>D.4</b>		<b>ENplus® ST 1002 requires additional annual collection and testing of pellets. The certification body shall annually collect and test additional sample of pellets.</b>
D.5		Additional inspection when extending the certification scope.
D.6		Additional inspection in case of verification of non-conformities, complaints, etc.
<b>Annex E: Multisite certification</b>		<b>ENplus® ST 1002 defines procedures for certification of a multisite company. The concept covers any situation where a single certificate covers more sites, including separate legal entities and service providers.</b>

# ENplus® ST 1003: Usage of the ENplus® trademarks - Requirements

The document defines trademarks kept by the ENplus® management and requirements for their usage. The requirements of this document apply mainly to the ENplus® certified companies but also to other users that wish to use the trademark for promotional or educational purposes.

The document also defines specific situation where entities within the pellets supply chain (e.g. traders of bagged pellets) can use the ENplus® trademarks without the ENplus® certification.

The document defines different "labels" that are derivatives of the ENplus® trademarks, differentiate between different categories of users (Producers/Traders, Service Providers, Other users) and between two basic types of the usage (on-product and off-product).

The document also defines the license for the use of the trademark and approval of a bag design.

ENplus® ST 1002	ENplus® Handbook, v 3.0	Note
<b>Foreword</b>	Part 1 – 5, Preface	
<b>Introduction</b>	Part 1 - 5, Preface	
<b>1 Scope</b>	Part 1, chapter 2	
1.1		Defines the scope of ENplus®ST 1003
1.2		List the various labels and declarations consisting of the consist of the ENplus® logo and the ENplus® wordmark that are regulated by this document.
1.3		Refers to the legal protection of the ENplus® trademarks
<b>2 Normative references</b>	Part 2, normative references	
<b>3 Terms and definitions</b>	Part 2, Definitions	
<b>4 ENplus® copyright and trademark protected material and its coverage</b>		
4.1		Coverage of the ENplus® trademarks
4.2		Meaning of the ENplus® trademarks
<b>5 Ownership and rights</b>		
5.1		Defines ownership of the ENplus® trademarks and related rights
5.2		Prohibits translation of the word "ENplus"
5.3		License for the usage of the ENplus® trademark (entities within the pellets supply chain)
5.4		Usage of the ENplus® trademarks by traders of bagged pellets without the ENplus® certification
5.5		Usage of the ENplus® trademarks by entities outside the pellets' supply chain (other users) for promotional or educational purposes
5.6		General requirements for the usage the ENplus® trademarks by entities outside the pellets' supply chain (other users).
<b>6 User categories of ENplus® trademarked material</b>		
6.1		Definition of four (4) "user categories" the ENplus® trademarks
<b>7 Use of ENplus® trademark</b>		
<b>7.1 General requirements</b>		

7.1.1		Provides summary of the ENplus® labels and declarations that consist (are derivatives) of the ENplus® trademarks, and their on- and off-product usage
7.1.2		Defines requirements for the usage of the ENplus® trademark material by traders of bagged pellets without the ENplus® certification.
7.1.3	Part 2, 2.3	Defines the usage of the ENplus® trademark material by uncertified entities within the pellets supply chain that is based on written permission of the ENplus® certified company.
7.1.4		General requirements for the usage of the ENplus® trademark material by uncertified entities within the pellets supply chain based on written permission of the ENplus® certified company.
<b>7.2 On-product use</b>		
<b>7.2.1 ENplus® wordmark</b>		
7.2.1.1		ENplus® ST 1003 defines a general requirement for the use of the "ENplus" wordmark
<b>7.2.2 ENplus® quality seal</b>	Part 2, 2.3.4	
7.2.2.1 – 7.2.2.4	Part 2, 2.3.4	Usage of the ENplus® quality seal by the certified entity
7.2.2.5		Usage of the ENplus® quality seal by the certification body
7.2.2.6		Usage of the ENplus® quality seal by traders of bagged pellets without ENplus® certification (see 7.1.2).
<b>7.2.3 ENplus® bag design</b>	Part 2, 2.5	
<b>7.2.3.1 General Requirements</b>		
<b>7.2.3.1.1</b>	<b>Part 2, 2.5</b>	<b>Approval of the ENplus® bag design</b>  ENplus® ST 1003 uses the term "bag design owner" for the company that developed and owns the bag design and that has received an approval for its usage from the ENplus® scheme management.
<b>7.2.3.1.2</b>		Usage of the ENplus® bag design by another company than the bag design owner  The bag design owner can give a permission to another company within the supply chain to use its approved bag design (by bagging the pellets) following the conditions of this document.
7.2.3.1.3	Part 2, 2.5	Usage of the ENplus® bag design on the bag and in promotional materials; completeness and readability of bag design information.
7.2.3.1.4	Part 2, 2.5	Language versions of the ENplus® bag design
<b>7.2.3.2 Elements of ENplus® labelled bag design</b>	Part 2, 2.5	
7.2.3.2.1 – 7.2.3.2.10	Part 2, bag design guidelines	Defines elements of the ENplus® bag design
7.2.3.2.11		ENplus® ST 1003 requires a new element of "serial number" to be included in the bag design. This number is used to be able to trace the company responsible for bagging, time, bagging site and/or line. The transition period for the use of the serial number is until 1 January 2025.
7.2.3.2.12	bag design guidelines	Additional information on pellets fuel properties
7.2.3.2.13	bag design guidelines	Displaying net calorific value on the ENplus® bag design

7.2.3.2.14		Displaying a fraction of pellets < 10 mm on the ENplus® bag design
7.2.3.2.15	bag design guidelines	Additional information on pellets properties – stricter values
7.2.3.2.16	bag design guidelines	Additional information in the ENplus® bag design  The company shall demonstrate compliance and holds full responsibility for the claimed information
<b>7.3 Off-product usage</b>		
<b>7.3.1 ENplus® certification seal</b>	Part 2, 2.4.2	
7.3.1.1		Purpose of the use
7.3.1.2	Part 2, 2.4.2	Elements of the ENplus® certification seal
7.3.1.3		Exclusion zone to keep the ENplus® certification seal clear and identifiable within surrounding design
7.3.1.4	Part 2, 2.4.2	Colour combinations
7.3.1.5	Part 2, 2.4.2	Size ratios
7.3.1.6		Usage by the certification body
<b>7.3.2 ENplus® service sign</b>	Part 2, 2.4.4	
7.3.2.1		Purpose of the use
7.3.2.2	Part 2, 2.4.4	Elements of the ENplus® service sign
7.3.2.3		Exclusion zone to keep the ENplus® service sign clear and identifiable within surrounding design
7.3.2.4	Part 2, 2.4.4	Colour combinations
7.3.2.5	Part 2, 2.4.4	Size ratios
7.3.2.6		Usage by the certification body
<b>7.3.3 ENplus® logo</b>		
7.3.3.1		Purpose of the use
7.3.3.2		Exclusion zone to keep the ENplus® Logo clear and identifiable within surrounding design
7.3.3.3		Colour combinations
7.3.3.4		Size ratios
<b>Annex A</b>	Part 2, 2.4	Colour combinations of the ENplus® trademarks

## ANNEX A:

### Threshold Values of essential pellet parameters

Quality class	A1		A2		B		Unit
	ENplus® HB 3.0	ENplus® ST 1001	ENplus® HB 3.0	ENplus® ST 1001	ENplus® HB 3.0	ENplus® ST 1001	
Diameter <sup>(b)</sup>	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	6 ± 1, 8 ± 1	mm
Length	3,15 ≤ L ≤ 40 a maximum of 1% of the pellets may be longer than 40mm, no pellets longer than 45mm are allowed.	3,15 ≤ L ≤ 40	3,15 ≤ L ≤ 40 a maximum of 1% of the pellets may be longer than 40mm, no pellets longer than 45mm are allowed.	3,15 ≤ L ≤ 40	3,15 ≤ L ≤ 40 a maximum of 1% of the pellets may be longer than 40mm, no pellets longer than 45mm are allowed.	3,15 ≤ L ≤ 40	mm
Share of pellets < 10 mm - Category L < 20%, 20% ≤ M ≤ 30%, S > 30%		value and category to be stated		value and category to be stated		value and category to be stated	w-%
Moisture	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	w-%
Ash	≤ 0.7	≤ 0.7	≤ 1.2	≤ 1.2	≤ 2.0	≤ 2.00	w-%
Mechanical durability	≥ 98	≥ 98	≥ 97.5	≥ 97.5	≥ 97.5	≥ 97.5	w-%
Bulk density	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	600 ≤ BD ≤ 750	kg/m <sup>3</sup>
Particle density		value to be stated		value to be stated		value to be stated	kg/m <sup>3</sup>

Coarse fines (3,15 mm ≤ FP < 5,6 mm)		value to be stated		value to be stated		value to be stated	w-%
Fines (<3.15mm) (bulk)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	w-%
Fines (<3.15mm) (bags)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5			w-%
Net calorific value	≥ 4.6	≥ 4.6	≥ 4.6	≥ 4.6	≥ 4.6	≥ 4.6	kWh/kg
Additives	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	w-%
Nitrogen	≤ 0.3	≤ 0.3	≤ 0.5	≤ 0.5	≤ 1.0	≤ 1.0	w-%
Sulfur	≤ 0.04	≤ 0.04	≤ 0.04	≤ 0.04	≤ 0.04	≤ 0.04	w-%
Chlorine	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.03	≤ 0.03	w-%
Arsenic	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	mg/kg
Cadmium	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	mg/kg
Chromium	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	mg/kg
Copper	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	mg/kg
Lead	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	mg/kg
Mercury	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	mg/kg
Nickel	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	mg/kg
Zinc	≤ 100	≤ 100	≤ 100	≤ 100	≤ 100	≤ 100	mg/kg



Ash deformation temperature	≥ 1200	≥ 1200	≥ 1100	≥ 1100	≥ 1100	≥ 1100	°C
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