

ENplus

**Quality Certification Scheme
For Wood Pellets**



ENplus Handbook
(UK Pellet Council-Handbook)
Part 1: General

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PREFACE

Wood pellets are a renewable fuel produced mainly from saw mill residues. Wood pellets are used as a fuel for residential heating systems as well as for industrial burners. They are a refined fuel that can be damaged during handling. Hence, quality management should cover the whole supply chain from the choice of raw material to their final delivery to the end-user.

ENplus was originally designed in 2010 by Deutsches Pelletinstitut GmbH (DEPI) as a quality certification scheme for wood pellets in the heating market. The aim was to achieve a supply of consistent product quality. The main target groups were producers of wood pellets and pellet traders with deliveries to end-users.

The pellet market has developed rapidly, experiencing a huge increase in international trade. The industrial and residential pellet markets became linked based on the quality class A1. Regional pellet supply chains have been completed with a global commodity market for wood pellets. The bagging of pellets has been partly separated from the production process with this step now being undertaken by pellet traders or independent service providers. This development brings with it quality risks arising due to wider raw material bases, new logistical processes and new market actors with little experience in wood pellet handling. In order to address these issues it was necessary to modify the scheme.

The 3rd major revision of the ENplus-Handbook further develops the quality certification scheme that combines product certification, chain of custody certification and quality management certification. Aspects of environmental sustainability are integrated by monitoring sustainability indicators such as the carbon footprint of pellet production.

With the publication of handbook version 3.0, ENplus provides for the first time the concept of service provider certification. A dedicated certification has been created for companies offering services in the pellet sector such as transport, storage, bagging, and customer deliveries of certified pellets for other parties.

Another important change in the certification scheme is related to the pellet quality classes. The standard EN 14961-2 has become obsolete and has been replaced by ISO 17225-2. The quality classes ENplus A1, ENplus A2 and ENplus B are based on this new standard, but the ENplus product requirements exceed the ISO 17225-2 standard for some pellet properties. Each quality class will have a dedicated quality seal that shall be displayed on pellet bags.

The certification scheme covers the following essential points based on the reference standards in brackets:

- Requirements on raw materials and product properties (ISO 17225-2)
- Requirements on quality management in wood pellet production and handling (ISO 9001, EN 15234-2)
- Requirements on control, tracking and declaration, from the raw material to the end product delivered to the customer

Specifications for internal quality control guarantee that the product requirements are maintained permanently. Requirements on the performance of the technical equipment,

operational procedures and documentation are defined, which should lead to a rapid tracking and solving of problems. Requirements on labelling and complaint management assure a high customer satisfaction. Scheme monitoring will lead to increasing operation standards and thereby will improve the overall performance of the *Certified Companies*.

In this document the requirements for *Certified Companies* are defined, as well as the processes related to certification (e.g. application procedure, surveillance inspections). All aspects concerning the relation between the *ENplus Board*, *International Management*, *National Licensers* as well as *Certification*, *Inspection* and *Testing Bodies* are defined in a separate document, part 5 of the *ENplus Handbook*, version 3 –“Scheme Organisation”. Other related documents, such as documentation templates and guidelines, will be published separately.

This document is part of the *ENplus Handbook*, *Version 3* defining the rules for the *ENplus* Quality Certification Scheme for Wood Pellets. The different parts of the *Handbook* are:

- Part 1: General
- Part 2: Certification Procedure
- Part 3: Pellet Quality Requirements
- Part 4: Sustainability Requirements
- Part 5: Scheme Organisation
- Part 6: Schedule of Fees

The current versions of these parts are published on the international website of *ENplus* [www.enplus-pellets.eu] as well as on the national websites [www.pelletcouncil.org.uk].

This document, part 1 (version 3.0) of the *ENplus Handbook*, contains information about the following topics:

- General information and overview
- Scope of the *ENplus* Certification Scheme
- Definition of terms
- Normative References

National Licensers will define specific national regulations in the national versions of the *Handbook* in order to implement general rules regarding trader equipment and acceptance of complaints. The national regulations will be clearly marked.

Certified companies have to follow the rules of the *Handbook* issued by the *UK Pellet Council*.

In case of any dispute about the regulation defined in the *Handbook*, the regulation of the Master-Handbook applies (exception: national regulation).

Terms written in italic characters are defined in the section “Definitions of terms”.

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DEFINITIONS OF TERMS

Affiliated Companies

Affiliated Companies are companies that are fully or partly owned by the legal entity that is the *Certified Company*. This legal entity shall be entitled to enforce the *Affiliated Company* to obey both the provisions of the *Handbook* and the requests from the *UK Pellet Council*.

Bagged Pellets

Pellet bags are a packaging unit for the retail market. *Bagged Pellets* may contain up to 30 kg of pellets of the quality classes ENplus A1 or ENplus A2.

Big Bags

Big Bags (aka. big bulk bags) are bags made from plastic mesh containing a batch of pellets with a weight from 30 to 1.500 kg.

Board of ENplus

The *Board of ENplus* consists of one representative from each *National Licensor*. It decides on the provisions of the certification scheme and on the acceptance or exclusion of a National License. Furthermore, the board serves as the objection committee, authorises amendments to the *Handbook*, and decides on exceptions from the provisions of the *Handbook*.

Certification Seal

Every *Certified Producer* and every *Certified Trader* has a unique *Certification Seal* consisting of the *ENplus Logo* and a unique *ENplus ID*.

Certification Body

A *Certification Body* evaluates the conformity of a company with the ENplus requirements based on an *Inspection Report* and issues the results of the evaluation in a *Conformity Report*. Additionally the *Certification Body* organises the inspections of traders and service providers (equivalent to the *Inspection Body's* role for producers). *Certification Bodies* being active within the ENplus scheme shall be listed by the *International Management of ENplus*.

Certified Company

A company that holds a valid certificate (issued by a *Certification Body*), has signed and meets the terms of the respective ENplus license contract with the *UK Pellet Council*. All *Certified Companies* (producers, traders and service providers) are listed on the international ENplus website [www.enplus-pellets.eu] as well as on the respective national websites [www.pelletcouncil.org.uk].

Certified Producer

A company producing wood pellets and being a *Certified Company* within the ENplus scheme.

Certified Service Provider

A company offering services related to the handling of wood pellets (transport, delivery, storage or bagging) and being a *Certified Company* within the ENplus scheme. A service provider is not the owner of the pellets that are handled.

Certified Trader

A company trading wood pellets and being a *Certified Company* within the ENplus scheme.

Conformity Report

The *Conformity Report* is a document to inform the *UK Pellet Council* about the findings of inspection and certification. The *Conformity Report* is issued by a *Certification Body* and provides the *Certified Company*, the *Inspection Body* and the *UK Pellet Council* with the results of the conformity evaluation.

ENplus ID

Every *Certified Producer* and every *Certified Trader* is assigned a unique *ENplus ID*. The *ENplus ID* has five characters. The first two characters indicate the country where the company is located. The three characters after the country code provide the number of the *Certified Company* in their country.

ENplus Logo

The *ENplus Logo* is a registered trademark and is part of the *Certification Seal* along with the *ENplus ID*.

Full Load Delivery

Full Load Delivery is the delivery of a complete truck load to one end-user. The load shall be a minimum of 20 tonnes.

Handbook

The ENplus handbook, referred to as *Handbook*, consists of several parts and defines the rights, responsibilities and obligations of *Certified Companies*, listed *Certification Bodies*, listed *Inspection Bodies*, listed *Testing Bodies*, *National Licensers* and the *Licensee*.

The different parts of the *Handbook* are:

- Part 1: General
- Part 2: Certification Procedure
- Part 3: Pellet Quality Requirements
- Part 4: Sustainability Requirements
- Part 5: Scheme Organisation
- Part 6: Schedule of Fees

Every *National Licenser* will publish a national version of the *Handbook* which is based on the ENplus master-handbook. The national versions may differ in the regulation related to complaint management and end-user delivery.

Inspection Body

The *Inspection Body* is the organisation charged with inspecting the facilities of a certified pellet producer or a producer applying to become certified. The *Inspection Body* checks if the requirements defined in the *ENplus Handbook* are met and reports the results of the inspection to the *Certification Body*. *Inspection Bodies* active within the ENplus scheme shall be listed by the *International Management of ENplus*.

Inspection Report

The *Listed Inspector* performing the inspection of an applicant or an already *Certified Company* documents the results of the inspection in an *Inspection Report*. Based on the information stated in the *Inspection Report*, HETAS decides on the conformity of the company with the requirements of ENplus.

International Management

The *International Management* of ENplus is the organisation responsible for the certification of companies in countries in which there is no *National Licenser* in place. It is also responsible for the listing of *Testing, Inspection and Certification Bodies* as well as for the listing of all *Certified Companies* on the website www.enplus-pellets.eu. Furthermore the *International Management* publishes amendments to the *Handbook*, organises training and workshops at an international level and provides support materials.

Licensee

The European Biomass Association AEBIOM has received the licensing rights for the ENplus registered mark from the developer (German Pellet Institute, DEPI) of the certification scheme.

Listed Inspector

Person performing on-site inspections for listed *Certification Bodies* or *Inspection Bodies*. This person shall be listed by name by the *International Management* on the international ENplus website [www.enplus-pellets.eu]. Only *Listed Inspectors* may perform inspections related to ENplus.

National Certification Body

The *National Licenser* is required to contract a *National Certification Body*. The *National Certification Body* shall be listed with the *International Management*. The *National Certification Body* performs the conformity evaluation of companies and issues all certificates for companies managed by the UK Pellet Council.

National Licenser

National Licensers are the associations representing the interests of the pellet sector in their respective countries and have signed a contract with the *Licensee*. This contract enables them to grant *Certified Companies* the right to use the *Certification Seal* in their respective country/area.

Part Load Delivery

Part Load Delivery is a delivery of bulk pellets to more than one end-user along a single route (aka. multi-drop).

Quality Seal

Combination of *Certification Seal* and the quality logo of one of the quality classes.

Service Provider Registration Number

Every *Certified Service Provider* is assigned a unique registration number. The *Service Provider Registration Number* has seven characters. The first two characters indicate the country where the company is located. The three characters after the country code provide the number of the *Certified Company* in that country. Furthermore the letters “SP” are attached.

Service Sign

Every *Certified Service Provider* has a unique *Service Sign* including a unique *registration number*. The *Certified Company* is granted the right to use the *Service Sign* for advertising purposes.

Storage Guidelines

The *Storage Guidelines* define the requirements for end-users’ stores. The construction of the store has a significant influence on the quality of the pellets. The construction of stores according to the guidance of the *Storage Guidelines* is a precondition for the acceptance of end-user complaints.

Every *National Licensor* publishes its own version of the *Storage Guidelines*.

Sublicense Contract

Sublicensed traders may sell certified pellets in bulk if a *Certified Trader* grants them the right to use their *ENplus Seal*. The precondition for sublicensing is that the physical handling of the pellets is performed only by the *Certified Company*. The *Sublicense Contract* shall be signed by the sublicensed trader and the *Certified Company*. The *UK Pellet Council* shall be informed about such arrangements within 2 weeks of the contract being made.

Testing Body

A *Testing Body* is a company operating a laboratory carrying out fuel analyses according to the relevant testing standards. *Testing Bodies* being active within the ENplus scheme shall be listed by the *International Management*.

NORMATIVE REFERENCES

CEN/TC 15370-1: Solid biofuels - Method for the determination of ash melting behaviour - Part 1: Characteristic temperatures method

EN 14778: Solid biofuels - Sampling

EN 14961-2: Solid biofuels – Fuel specification and classes – Part 2: Wood pellets for non-industrial use

EN 15234-2: Solid biofuels - Fuel quality assurance - Part 2: Wood pellets for non-industrial use

ISO 3166: Codes for the representation of names of countries and their subdivisions

ISO 16948: Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen contents

ISO 16968: Solid biofuels - Determination of minor elements

ISO 16994: Solid biofuels - Determination of total content of sulphur and chlorine

ISO 17225-1: Solid biofuels - Fuel specifications and classes - Part 1: General requirements

ISO 17225-2: Solid biofuels - Fuel specifications and classes - Part 2: Graded wood pellets

ISO 17828: Solid biofuels - Determination of bulk density

ISO 17829: Solid Biofuels - Determination of length and diameter of pellets

ISO 17831-1: Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 1: Pellets

ISO 18122: Solid biofuels - Determination of ash content

ISO 18125: Solid biofuels - Determination of calorific value

ISO 18134: Solid biofuels - Determination of moisture content -

ISO 18846: Solid biofuels - Determination of fines content in quantities of pellets

ISO 9001: Quality Management Systems – Requirements

ISO/IEC 17020: Conformity assessment - Requirements for the operation of various types of bodies performing inspection

ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories

ISO/IEC 17065: Conformity assessment - Requirements for bodies certifying products, processes and services

Note: Until the referenced ISO analysis standards are published, analyses shall be performed according to the related CEN standard.

National solid biofuel standards, storage standards or requirements for pellet production and use, which do not contradict the above standards, can be added in the list of normative references by the *National Licenser*.

1 COMING INTO FORCE

This document, Part 1 of the *ENplus Handbook*, version 3.0, will come into force with its publication on 1st of August 2015.

Information about the coming into force of the regulation of the certification scheme can be found in the specific parts.

2 SCOPE OF THE CERTIFICATION SCHEME

The aim of the ENplus certification scheme for wood pellets is to secure the supply of wood pellets for heating and CHP in residential, commercial and public buildings with a clearly defined and constant quality.

ENplus is a quality certification scheme that covers the entire supply chain of wood pellets: from the production and delivery chain of wood pellets all the way to the end user's store. The essential components of the certification scheme are:

- Definition of quality classes and specification of pellet properties
- Provisions on the quality management of pellet producers, traders and service providers
- Requirements on product declaration and use of the *Certification Seal*
- Listing of bodies, licensing and revoking, training, (these aspects will be handled in a separate document, part 5 of the *ENplus Handbook*, version 3).
- Inspection and conformity evaluation of products, processes and documents within the relevant standards and the provisions of this handbook.

The rights, responsibilities and obligations for *Certified Companies* and applicants are defined in this *Handbook*. The *Handbook* will be revised regularly by an editorial group authorised by the *Board of ENplus*. The *International Management* of ENplus may publish amendments to the *Handbook* as well as clarifications. The *UK Pellet Council* may publish specific rules regarding end-user delivery.

3 SETUP OF THE CERTIFICATION SCHEME

The *Licensee* has received the licensing rights for the registered trademark *ENplus* (*ENplus Logo*), from the developer and license owner of the *ENplus* certification scheme, Deutsches Pelletinstitut GmbH (DEPI). The *Licensee* is allowed to grant the licensing rights to an association member of the European Pellet Council (EPC) that represents the wood pellet industry in its respective country or region. The license to use the *ENplus* trademark is always issued by the *Licensee* or a *National Licensor*.

Pellet associations that have received the licensing rights for their country serve as *National Licensor* and organise the *National Management* of *ENplus* in their country. The *National Licensor* contracts one or more *National Certification Bodies* for the conformity evaluation of companies in its country. The *National Management* may be performed by the *National Licensor* itself or assigned to the *National Certification Body*, or the *International Management*.

In countries without a *National Licensor*, *ENplus* certification will be coordinated by the *International Management*.

The independence of the certification scheme is guaranteed through the involvement of independent accredited bodies for certification, inspection and testing. All *Testing, Inspection and Certification Bodies* who verify that companies comply with the provisions of the *ENplus Handbook* shall be accepted and listed with the *International Management* and who publishes them on the international *ENplus* website (www.enplus-pellets.eu).

An up-to-date list of all *National Licensors* is published on the international *ENplus* website.

The *Licensee* or a *National Licensor* will grant the license to use the *Certification Seal* consisting of the *ENplus Logo* and the respective *ENplus ID* to companies who fulfil the obligations under the provisions of the *Handbook* and enter into a contract with the *UK Pellet Council*. In general, the *National Licensor* is the organisation that holds the licensing rights for the country where the company asking for certification is located.

If a *National Licensor* is terminated or loses their *ENplus* licensing rights, license users from this country will receive their established license directly from the *Licensee* without further delay.

National Licensors will define specific national regulation in order to implement general rules regarding trader equipment and acceptance of complaints. This national regulation will be clearly marked.

4 FLOW OF INFORMATION AND CONFIDENTIALITY

The *UK Pellet Council* and the *Listed Bodies* are committed to the non-disclosure of all business-related information received through contact with the *Certified Company* in the course of or before certification, if this information is not publicly available. The *International Management* and *UK Pellet Council* will not disclose business-related information of *Certified Companies* to the members of EPC or those of national pellet associations. Disclosure is only possible if the *Certified Company* releases the *International Management*, *UK Pellet Council* and the listed bodies from their non-disclosure obligation or if the *International Management/UK Pellet Council* and the listed bodies are obliged by law to disclose specific information.

The *Listed Bodies*, *UK Pellet Council* and the *International Management* form a confidentiality chain. Listed bodies are obliged to provide the *UK Pellet Council* with all necessary information about a *Certified Company* according to the provisions of this *Handbook*. This includes the information provided in the laboratory report, *Inspection Report*, *Conformity Report* and the *certificate* as well as any information needed for complaint management.

The *UK Pellet Council* provides *Conformity Reports* as well as laboratory reports to the *International Management* in order to enable a fast tracking of the quality issues. The *International Management* may ask the *UK Pellet Council* for additional information needed for the management of the scheme or for the preparation of publications about the scheme. Information will only be published in a way that guarantees that no conclusions can be drawn on a particular *Certified Company*.

Where a *Certified Company* has *Affiliated Companies* in other countries, an exchange of information between the concerned *National Managements* may be necessary.

5 OVERVIEW ABOUT THE TYPES OF CERTIFICATION

For a load of bulk pellets to be sold as ENplus certified, all companies which are involved in the supply chain and which have physical contact with the pellets should be certified.

The following figures show the activities that need to be certified and which activities can request a voluntary certification.

All processes, except pellet production, may be performed by an external service provider.

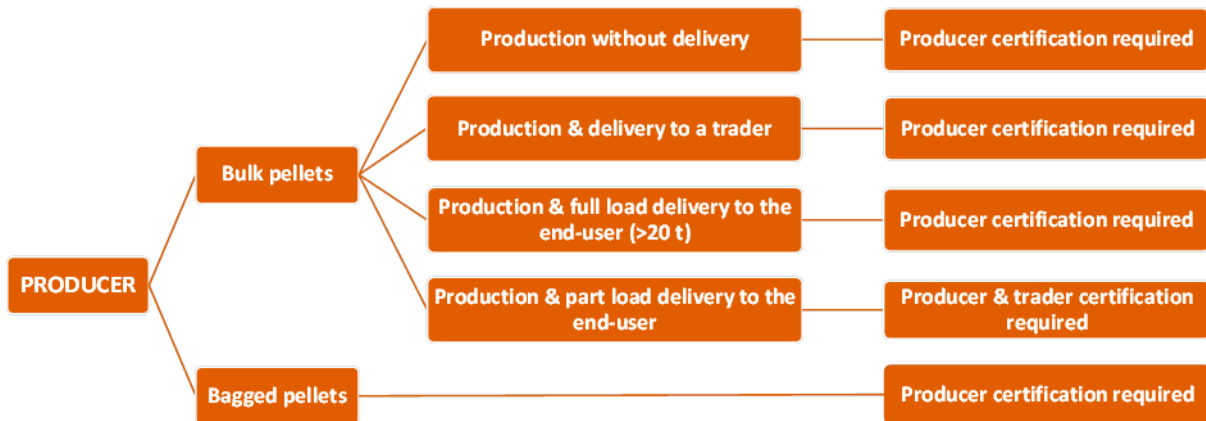


Figure 1: The certification required by Producers depending on different business activities

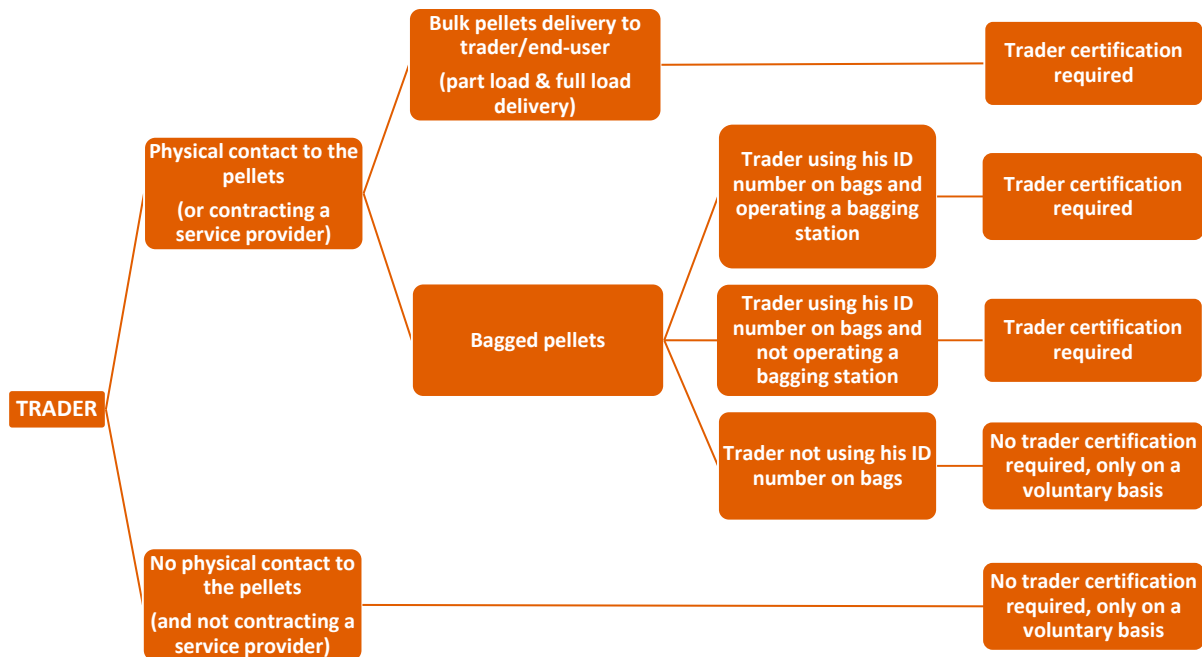


Figure 2: The certification required by Traders depending on different business activities

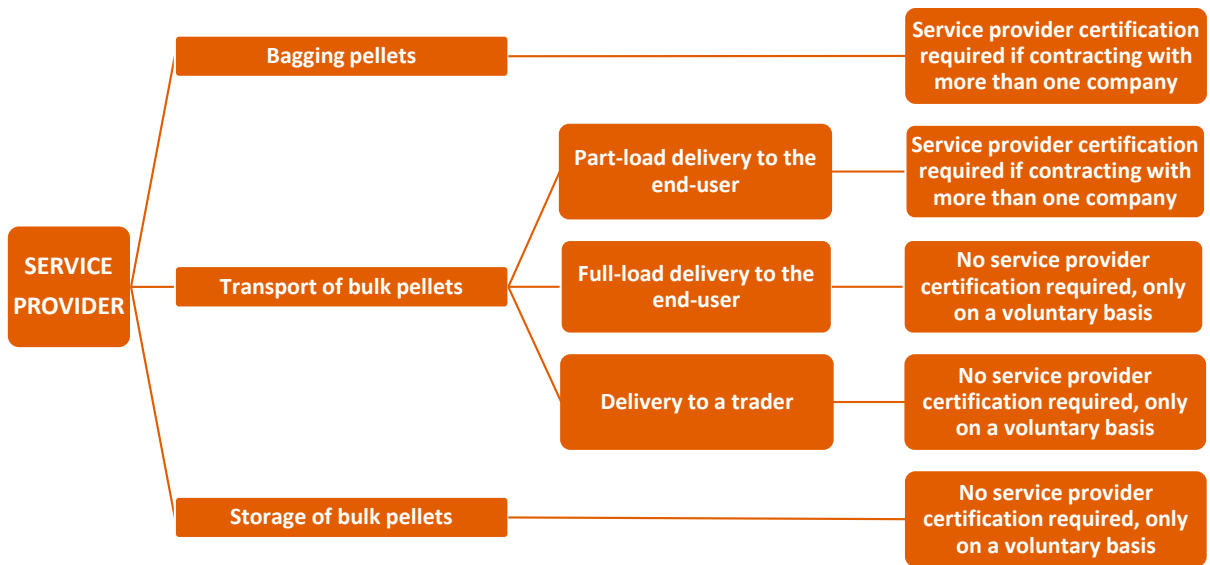


Figure 3: The certification required by Service Providers depending on different business activities