

KZR INiG System/6

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Land use for raw materials production – agricultural and environmental requirements and standards

by The Oil and Gas Institute - National Research Institute

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<u>1. Introduction</u>

The production of biofuels, biomass fuels and bioliquids shall comply with all applicable laws and regulations of the country in which the production occurs and with relevant international laws and agreements. This document provides guidelines on the best practices of cultivation and harvesting of raw materials according to agricultural and environmental requirements and standards.

These regulations are defined in provisions referred to under the heading "Environment" and in point 9 of the section entitled "Public, animal and plant health" of Annex II to Council Regulation No. 73/2009/EC and in accordance with the minimum requirements for good agricultural and environmental conditions in relation to nature protection (art. 6 (1) of Regulation No. 73/2009/WE).

2. Scope

This document covers requirements for farmers that ensure that agricultural production is in accordance with the minimum requirements for good agricultural and environmental condition".

3. Normative references

The normative references, covering all aspects of the KZR INiG System, are the following linked documents, which should be read in conjunction.

KZR INiG System /1/ Description of the KZR INiG System – general rules

KZR INiG System /2/ Definitions

KZR INiG System /3/ Reference with national legislation

KZR INiG System /4/ Land use for raw materials production – lands with high carbon stock

KZR INiG System /5/ Land use for raw materials production – biodiversity

KZR INiG System /6/ Land use for raw materials production – agricultural and environmental requirements and standards

KZR INiG System /7/ Guidance for proper functioning of mass balance system

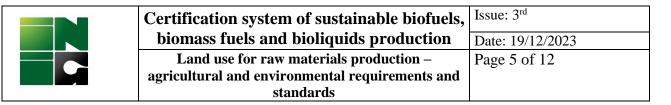
KZR INiG System /8/ Guidelines for the determination of the life cycle per unit values of GHG emissions for biofuels, biomass fuels and bioliquids

KZR INiG System /9/ Requirements for certification bodies

KZR INiG System /10/ Guidelines for auditor and conduct of audit

KZR INiG System /11/ Forest biomass

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Commission Regulation (EC) No 1122/2009 of 30 November 2009 laying down detailed rules for the implementation of Council Regulation (EC) No 73/2009 as regards cross-compliance, modulation and the integrated administration and control system, under the direct support schemes for farmers provided for that Regulation, as well as for the implementation of Council Regulation (EC) No 1234/2007 as regards cross-compliance under the support scheme provided for the wine sector.

<u>4. Definitions</u>

KZR INiG System/2/ Definitions

5. Description and requirements

To meet requirements, Member States may rely on their own currently existing control systems for cross-compliance, under art. 22 of Regulation No. 73/2009/EC, and rules for good agricultural practice.

The requirements referred to in the above-mentioned regulation are applicable **only** to raw materials coming from European Union, intended for biofuels, agricultural biomass fuels and bioliquids production. Producers outside the EU are obliged to apply the guidelines contained in the documents of the KZR INiG System.

Based on the cross-compliance principle of the KZR INiG System, the agricultural producer who is a beneficiary of the direct support scheme in accordance with Regulation No. 73/2009ⁱ needs to **meet** <u>only</u> agricultural and environmental requirements and standards such as soil and water protection, Habitat and Birds Directives, good agricultural practices, and management, etc.

Additionally, the sustainability criteria related to highly biodiverse lands (*KZR INiG System/5*) and high carbon stock lands (*KZR INiG System/4*) must be met by farmers, whether or not they are the beneficiaries of the direct support scheme.

5.1. Natural environment

Under the scope of the cross-compliance rule, environmental protection includes the following aspects:

- birds and natural habitats;
- protection of wild fauna and flora;
- protection of ground waters against dangerous substances;
- handling of sewage sludge on a farm;
- > protection of waters against nitrates from agricultural sources.

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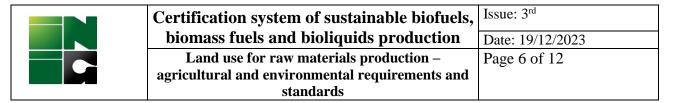


Table 1 shows a compilation of the natural environment requirements.

Table 1 –Natural environment requirements

| Acts of Union law | Domain of regulation | Scope |
|--|---|---|
| Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the | The aim of the Directive on the conservation of wild birds is the protection of endangered species and their preservation in conditions favouring as much as possible their natural habitats. Practically, it means that: The farmer is obliged to comply with the requirements for protective actions or protection plans for NATURA 2000 areas concerning the protected bird species. | |
| | - Intentional capturing and killing of birds under protection is prohibited. The above prohibition does not pertain to a farmer who has a permit issued on the grounds of art. 52 (2) or art. 56 (1) or (2) of the Act on Nature Conservation, for a departure from the prohibition of intentional capturing and killing of protected birds. | <u>Affects</u> – all farmers in the EU. |
| | - Intentional destruction of nests and eggs or intentional scaring away of protected birds is prohibited. | |
| | The above prohibition does not pertain to a farmer who has a permit issued on the grounds of art. 52 (2) or art. 56 (1) or (2) of the Act on Nature Conservation, for a departure from the prohibition of intentional destruction of nests and eggs or intentional scaring away of birds under protection. | |
| | - Intentional destruction of habitats and refuges of protected birds is prohibited. | |
| | In refuge protection zones, breeding grounds and regular habitats of birds, it is prohibited to: | |
| | - cut down trees or bushes, - make changes in water distribution, unless it is connected with the protection needs. | |
| | The prohibition does not pertain to persons having a permit for these operations issued by director of the Regional Directorate for Environmental Protection. | |
| 80/68/EEC of 17 | The aim of the Directive is the protection of groundwater against pollution caused by dangerous substances. | $\underline{\text{Affects}}$ – all farmers in the EU. |
| 0 0 | Practically, it means that: - It is prohibited to introduce dangerous substances directly or indirectly to groundwater, e.g. mercury, persistent mineral oils, petroleum, etc. The list of dangerous substances for the above requirement is defined <u>in</u> | |
| substances | <u>attachment No. 11 in list 1</u> of the Regulation of the Minister of | |

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Acts of Union law

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 Environment of 24.07.2006, specifying the conditions to be fulfilled while releasing wastewater to waters or to the ground, and on substances contained in wastewater and in waste that are particularly hazardous for aquatic environments.
 - It is prohibited to introduce dangerous substances into the ground, e.g. unstable mineral oils and petroleum hydrocarbons, ammonia, nitrites, cyanides, etc.

 The above prohibition does not pertain to a farmer who has a permit issued on the grounds of art. 140 of the Act on Water Law and complies with the

conditions included therein. The list of dangerous substances for the above requirement is defined <u>in</u> <u>attachment No. 11 in list 2</u> of the Regulation of the Minister of Environment of 24.07.2006, specifying *the conditions to be fulfilled while releasing wastewater to waters or to the ground, and on substances contained in wastewater and in waste that are particularly hazardous for aauatic environments.*

| | aquatic environments. | |
|-------------------------|---|--------------------------------|
| Council Directive | Proper utilization of sewage sludge in agriculture requires the farmer to | Affects - EU farms utilizing |
| 86/278/EEC of 12 June | comply with the following regulations: | municipal sewage sludge. |
| 1986 on the protection | List of requirements | |
| of the environment, and | List of requirements | |
| | - Obligation of compliance with recommended doses of municipal sewage | |
| 0 0 | sludge defined in the document submitted by the producer of the municipal | |
| used in agriculture | sewage sludge. | |
| | - Prohibition to use sludge that is non-stabilized or not properly prepared | |
| | for the aims of its utilization (the sludge must undergo proper treatment). | |
| | - Before using municipal sewage sludge, the soil should be analysed for | |
| | available phosphorus content, heavy metal contents, and pH. | |
| | ••• | |
| | Protection of groundwater against pollution caused by nitrates. The aim of | |
| | the Directive is to protect waters and to reduce their pollution by nitrates | • |
| | originating from agricultural sources. | located in areas particularly |
| December 1991 | Practically, it means that: | prone to pollution by nitrates |
| concerning the | | from agricultural sources. |
| - | The requirements of programmes aimed at reducing nitrogen outflow from | |
| | agricultural sources must be met on farms, or parts thereof, that are located | |
| • | in designated areas particularly susceptible to pollution by nitrates from | |
| agricultural sources | agricultural sources. | |
| | List of requirements: | |
| | Storage of livestock manures and silages | |
| | - Dung is stored in inventory compartments with impermeable bases or on an impermeable plate equipped with installations draining the runoff to liquid manure and manure water tanks. | |
| | - Capacity of the manure plate ensures gathering and storing of livestock manure in times when it is not used in agriculture (for at least 6 months). | |



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| Acts of Union law | Domain of regulation | Scope |
|---|---|---|
| | - Semi-liquid manure and liquid manure are stored in leakproof tanks. | |
| | - Capacity of semi-liquid manure and liquid manure tanks is sufficient for their storage in times when they are not used in agriculture (for at least 6 months). | |
| | - Silages are protected from runoff into the ground. | |
| | - Dose of livestock manure used during a year does not contain more than 170 kg of nitrogen (N) as a pure component per hectare of agricultural land. | |
| | Required documentation (may differ depending on specific local program of operations) | |
| | - Proof that the farmer has a yearly plan of fertilization of the crops. | |
| | - Proof that the farmer has a contract for sale of livestock manures produced on the farm if livestock manure production is excessive (above 170 kg N/ha) in relation to area of the agricultural lands owned by the farmer. | |
| | - Proof that the farmer has contracts for tenure or use of agricultural lands other than those he owns. | |
| 92/43/EEC of 21 May 1992 on the | The aim of the Directive on the conservation of natural habitats and of wild fauna and flora is to protect the nature on the area of the EU, requiring member states to establish special habitat protection areas, where the habitats will be preserved in a state no worse than the present one. | or parts thereof, are located in |
| conservation of natural habitats and of wild | List of requirements: | |
| fauna and flora | - The farmer is obliged to comply with the requirements of protective action plans or protection plans for NATURA 2000 areas concerning the natural habitat types, plant species or animal species. | |
| | - It is prohibited to undertake actions that may, separately or in connection with other actions, significantly adversely affect the protection aims of a Natura 2000 area. | <u>Affects</u> – farmers undertaking actions which may significantly affect, adversely, |
| | The above prohibition does not pertain to a farmer who has a permit issued on the grounds of art. 34 (1) of the Act <i>on Nature Conservation</i> | |
| | - Actions which may significantly affect a Natura 2000 area may be permitted if a proper administrative decision and permit were issued. | 2000 area itself |
| | - Intentional picking, destruction, damaging, and harvesting of plants under protection are prohibited. | <u>Affects</u> – all farmers |

5.2. Public, animal and plant health

One of the most important ways of preventing risk to people, animals and environment, is the proper use of plant protection products in accordance with Council Directive 91/414/EEC.

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Table 2 shows guidelines for the use of plant protection products.

Table 2 – Guidelines for the use of plant protection products

| Acts of Union | Domain of regulation | Scope of the | |
|--|---|--------------|-----------|
| law | binding fo | | g force |
| Council | The aim of this Directive is to oblige EU member states to establish rules concerning the | Affects - | - farmers |
| Directive | placing of plant protection products on the market. | using | plant |
| 91/414/EEC of 15 July 1991 | List of requirements: | protection | products |
| concerning the | - use exclusively plant protection products that are allowed on the market; | | |
| placing of plant protection products on the market. | - use plant protection products only in accordance with their labels (instructions for use), strictly adhering to its recommendations to prevent dangers to human or animal health or to | | |
| | - use plant protection products exclusively with technically operable equipment which, when used as intended, will not pose a danger to human and animal health or the environment. | | |

5.3. Good agricultural and environmental conditions

In the EU, agricultural producers are obliged to follow good agricultural and environmental practices that are applicable <u>solely</u> for the cultivation of sustainable agricultural raw materials for biofuels, agriculture biomass fuels or bioliquids production.

In the EU area, the cultivation of raw materials shall comply with the environmental protection guidelines included in relevant documents and guidelines applicable in member states.

A farmer cultivating raw materials outside the EU must comply with the requirements and standards laid down in the provisions referred to in the "Environment" section of part A and in point 9 of Annex II to Regulation (EC) No 73/2009 of 19 January 2009 establishing common rules for direct support schemes for farmers under the common agricultural policy and establishing certain support schemes for farmers OJ L 30, 31.1.2009; and act in accordance with the minimum requirements for good agricultural and environmental conditions within the meaning of art. 6 paragraph 1 of the Ordinance.

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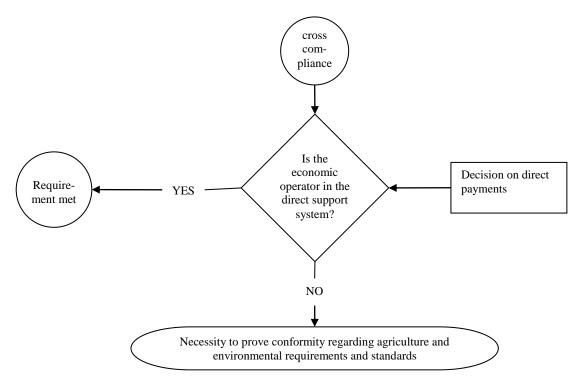
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6. Calculations

Not applicable.

7. Conformity check

Figure 1 – Example procedure for the verification of requirements and standards of agriculture and environmental protection, binding for farmers within the EU



7.1. Cross-compliance

To verify this criterion, the use of results of audits carried out by the Agency for Restructuring and Modernisation of Agriculture (in Poland) or equivalent agency (within EU), an accredited control and support-payment body, is allowed by the KZR INiG System, which recognizes these results as reliable sources of data.

Furthermore, an agricultural producer who cultivates raw materials for biofuels, agricultural biomass fuels or bioliquids production is obliged to sign the *Self-declaration for agricultural producer* (Annex 1 to *KZR INiG System/1*).

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Nevertheless, whether or not an agricultural producer who cultivates raw materials for biofuels, agricultural biomass fuels and bioliquids production participates in the direct financial support scheme and control system, he/she is obliged to prove compliance with the sustainability criteria concerning highly biodiverse areas (see document *KZR INiG System/5*) and lands with high carbon stock (see document *KZR INiG System/4*). If an agricultural producer who cultivates raw materials for biofuels, agricultural biofuels and bioliquids production does not participate in the <u>direct financial support scheme and control system</u> or is beyond the EU, he/she is obliged to meet additional requirements concerning good agricultural and environmental conditions (see next section).

7.2. Good agricultural and environmental conditions

When an agricultural producer does <u>participate in the</u> direct support scheme <u>within the framework</u> <u>of cross-compliance</u>, he/she meets the requirements for the implementation of agricultural and environmental conditions. For the purposes of verifying conformity, an agricultural producer evaluated within the framework of the direct support scheme, and in consequence subjected to control by competent control bodies within the framework of cross-compliance, is obliged to sign the *Self-declaration for agricultural producer* (Annex 1 to *KZR INiG System/1*).

When an agricultural producer does <u>not participate in the direct support scheme</u>, <u>but</u> cultivates raw materials for biofuels, agricultural biomass fuels and bioliquids production, including agricultural producers in countries outside the EU, <u>he/she is nevertheless obliged to prove this compliance and also compliance</u> with the sustainability criteria <u>for highly biodiverse areas</u> (see document *KZR INiG System/5*) and for <u>lands with high carbon stock</u> (see document *KZR INiG System/4*).

8. Changes compared to the previous edition

| Date | Section | Previous requirement | Current requirement |
|------------|---------|----------------------|---------------------|
| 19/12/2023 | N.A. | No changes | No changes |

9. References

Council Regulation (EC) No 73/2009 of 19 January 2009 establishing common rules for direct support schemes for farmers under the common agricultural policy and establishing certain support schemes for farmers, amending Regulations (EC) No 1290/2005, (EC) No 247/2006, (EC) No 378/2007 and repealing Regulation (EC) No 1782/2003 (J. of Laws L 30 of 31-01-2009).

Directive 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC repealing Directive 2009/28/EC.

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Cross-compliance – Minimum standards, Domain A and Domain B valid from 2011, information brochure of Agency for Restructuring and Modernisation of Agriculture, November 2010.

Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market (J. of Laws WE L 230 of 19-08-1991).

Decree of the Minister of Agriculture and Rural Development of 11-03-2010 on minimum standards (J. of Laws No. 39, item 211).

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