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8697/4/17 REV 4

ENER 149 CLIMA 106 CONSOM 165 **TRANS 159 AGRI 237 IND 97 ENV 394 CODEC 698**

NOTE

From:	General Secretariat of the Council		
To:	Permanent Representatives Committee		
No. Cion doc.:	15120/1/17 ENER 417 CLIMA 168 CONSOM 298 TRANS 479 AGRI 650 IND 261 ENV 757 IA 130 CODEC 1802 REV 1 (en) + ADD 1 REV 1 (en)		
Subject:	Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the promotion of the use of energy from renewable sources (recast)		
	- General approach		

1. The Presidency aims to reach a general approach on this proposal at the 18 December meeting of the TTE (Energy) Council. After the COREPER discussion on the issue of renewable energy in the transport sector (Art. 25) on 27 October, COREPER is now invited to address the entire draft Directive as reflected in the Annex and the Addendum, with a view to reaching agreement on it and submitting it to the TTE Council for acceptance as a general approach.

To facilitate the discussion on issues that delegations may wish to raise, the main issues are described below in the order in which they appear in the legislative text.

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2. Main outstanding issues and Presidency compromise proposals

a) Baseline and enabling framework (Art. 3)

Further to delegations' concerns, the text relating to the 'baseline share' in paragraph 3 was amended, *inter alia* by including a reference to the relevant operational parts in the draft Regulation on Governance (which were also adapted) in order to avoid the risk of 'double punishment', *i.e.* the risk that Member States would be the subject of an infringement procedure if they were to fall below their baseline *and* would have to take additional measures as specified in Article 27(4bis).

b) Opening of support schemes (Art. 5)

In spite of attempts to make this provision more flexible, a large majority of delegations insisted that Member States should have the final say on whether or not to open their support schemes to generators located in other Member States, and if so, to what extent. As a result, this provision now provides Member States with these rights. Other text changes that clarify *how* this cross-border opening of support schemes could function remain useful and are maintained.

c) Stability of financial support (Art. 6)

The amended text of this Article 6 - to be read together with recital 18 - aims to provide investment security and prohibit retroactive changes to support schemes whilst at the same time making it clear that the original support scheme may contain dynamic elements.

d) EU Renewable Development Platform and statistical transfers (Art. 8)

In addition to statistical transfers, which are already provided in the existing legislation but were not used until recently, a new provision was added: an EU platform, to be set up by the Commission by a delegated act, where Member States can offer and sell 'excess renewable energy'. Any such 'transactions' effectuated on that platform should be more or less automatically reflected in Member States' national renewables contributions.

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e) Permit granting process (Art. 16)

Given the difficulty of designing a one-size-fits-all solution for the many different existing practices in Member States, the obligation to streamline the permit granting process for renewables installations in Article 16 is now limited to Member States having to designate a contact point for applicants, and for that contact point to deliver guidance throughout the process, whilst having regard to an indicative maximum period of 3 years for the process.

Repowering applications were moved from Article 17 to this Article, since repowering in many cases involves large increases in capacity and size of the installations (for example wind power installations), so a "simple notification procedure" as set out in Article 17 would be inappropriate. Nevertheless, some Member States request further simplification or outright deletion of the Article.

f) Simple notification procedures (Art. 17)

This simple notification procedure for small-scale installations and demonstration projects was simplified and shortened, and the district system operator (DSO) was given a role in order to safeguard the integrity and safety of the distribution system. Some Member States request the simplification or deletion of this Article.

g) Guarantees of origin (Art. 19)

Given the different existing practices in the use of GO's, Member States continue to hold different points of view on key elements of this Article: for which energy sources and when GO's should be issued and cancelled, whether or not their use should be mandatory, and which type of exemptions should be included. As a minimum, the current text sets out GO's for renewable electricity and gas.

h) Renewable self-consumers and renewable energy communities (Art. 21 & 22)

Considerable changes were made to these two Articles, in order to provide more clarity on the respective rights and obligations of renewable self-consumers and communities, and avoid potential misuse or abuse of these provisions (the latter in particular as regards renewable energy communities). In view of the different existing provisions in Member States and the ongoing discussion on strongly interlinked aspects in the Market Design proposals, the text now provides Member States with additional flexibilities in transposing the general provisions.

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i) Heating and cooling and District heating and cooling (Art. 23 & 24)

Many Member States argued that the differences in existing national systems and installations in heating and cooling ('H&C') and district H&C, such as size, setup and management, makes it difficult and, for some elements, unwanted to impose a one-size-fits-all solution at Union level, and may in some cases force Member States to deviate substantially from a cost-efficient path of increasing the share of renewables. As a result, in Article 23 the aspirational aim to gradually increase the share of renewable energy in H&C was toned down. Some Member States continue to oppose certain provisions in Article 24 on district H&C, arguing that existing business models and investments would be at risk from new provisions proposed. In general, in view of the different existing provisions in Member States, some Member States request further changes in these two Articles.

j) Transport (Art. 25)

Following the COREPER discussion on the use of renewable energy in transport, a provision was added obliging Member States to put an obligation on fuel suppliers - but leaving it up to Member States to decide on how this should happen. Delegations' positions differ on many key aspects of this Article: the level of the target of 12%, the minimum share of advanced biofuels (3% in 2030), and maintaining the existing 7% cap on first-generation biofuels. Several Member States underlined that the current 10% binding target for 2020 is difficult and costly to achieve, and that for this target double counting (of advanced biofuels) is still allowed. Since double counting would not be allowed anymore, this would make a 2030 target harder to achieve in practice. Furthermore, several Member States oppose any binding sectoral target, preferring subsidiarity and flexibility in the context of the overall EU-binding renewables target. Some Member States noted that they could not make use of the multipliers for rail and maritime transport (since they have no rail or access to sea), whereas others expressed doubts about the useful effects of having a multiplier for renewable electricity used in rail transport.

k) Sustainability and greenhouse gas ('GHG') emissions saving (Art. 26), verification of compliance (Art. 27)

The text of Article 26 which covers the sustainability requirements and minimum GHG saving requirements for the many different types of biofuels, bioliquids and biomass fuels (including agricultural biomass, forest biomass, and biogas), and of Article 27 which covers the verification of compliance with these provisions, was amended to limit the administrative burden and adapt the provisions to market realities, including notably those of small producers. Several delegations request changes pertaining to this or the other particular fuel. However, most of the provisions remain intact.

Following requests by some Member States to delete Article 26(8) which specifies that only electricity from biomass fuels produced with high efficient cogeneration technology may be taken into account as contributing to the Union renewables target, the Presidency invites

Member States to indicate whether this paragraph 8 should be deleted and/or changed substantially.

3. COREPER is invited to discuss all outstanding issues and reach agreement on them, in preparation for the Council's upcoming general approach.

Changes compared to the Commission proposal are indicated in	bold blue highlighted text;	deletions are
marked with [].		

Changes compared to the previous text are indicated in **bold underlined blue highlighted text**; deletions are marked with [] or strikethrough blue highlighted text.

To improve the readibility of the document, double strikethrough (sub)paragraphs from the original Commission proposal (*i.e.* (sub)paragraphs that are proposed to be deleted in their entirety) are now deleted, this is indicated by [____].

N.B. The Opinion of the Consultative Working Party of Legal Services can be found in doc. 13344/17. This opinion identifies in point (1) text in the original Commission proposal (including the Annexes) which should have been identified with grey-shaded text. Its substantial correction in point (2) has been incorporated into this text (REV 3).

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Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the promotion of the use of energy from renewable sources (recast)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION.

Having regard to the Treaty establishing the European Community \boxtimes on the Functioning of the European Union \boxtimes , and in particular Article $\frac{175(1)}{192(1)}$ and $\Rightarrow 194(2) \Leftrightarrow$ thereof, and Article 95 thereof in relation to Articles 17, 18 and 19 of this Directive,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national parliaments,

Having regard to the opinion of the European Economic and Social Committee¹,

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the \boxtimes ordinary legislative \boxtimes procedure $\frac{\text{laid down in Article 251 of the}}{\text{Treaty}^2}$

Whereas:

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Opinion of 17 September 2008 (OJ C 77, 31.3.2009, p. 43).

OJ C 325, 19.12.2008, p. 12.

Opinion of the European Parliament of 17 December 2008 (not yet published in the Official Journal) and Council Decision of 6 April 2009.

new

(1) Directive 2009/28/EC of the European Parliament and of the Council⁴ has been substantially amended several times⁵. Since further amendments are to be made, that Directive should be recast in the interests of clarity.

⇒ Promoting renewable forms of energy is one of the goals of the Union energy policy that (2) is pursued by this Directive. 🗢 Simultaneously this Directive pursues the environmental objectives of preserving, protecting and improving the quality of environment, of protecting human health and of a prudent and rational utilisation of natural resources through the development of new and renewable forms of energy. As regards this Directive both sets of objectives are indissociably linked while none is **secondary or indirect to the other.** The increased use of energy from renewable sources, together with energy savings and increased energy efficiency, \boxtimes constitutes an \boxtimes important part of the package of measures needed to reduce greenhouse gas emissions and comply with

the 2015 Paris Agreement

on Climate Change, and

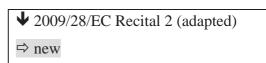
the Union 2030 energy and climate framework, including the binding target to cut emissions in the Union by at least 40% below 1990 levels by 2030 **☑**. **The Union's binding renewable energy** target for 2030, Member States contributions to the latter target, including their baseline scenarios resuming their national overall targets for 2020, are among the elements which have an overarching importance for the Union's energy and environmental policy. Other such elements of overarching importance are for instance contained in this Directive's framework for developing renewable heating and cooling and for the development of renewable transport fuels.

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Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC (OJ L 140, 5.6.2009, p. 16).

See Annex XI. Part A.

(2bis) [Ht] The increased use of energy from renewable sources also has an important part to play in promoting the security of energy supply, technological development and innovation and providing opportunities for employment and regional development, especially in rural and isolated areas ⇒ or regions with low population density ←.



(3) In particular, increasing technological improvements, incentives for the use and expansion of public transport, the use of energy efficiency technologies and \overline{\infty} the promotion of \overline{\infty} the use of energy from renewable sources

in the electricity, heating and cooling sectors as well as \Leftarrow in \boxtimes the \boxtimes transport \boxtimes sector \boxtimes are some of the most \boxtimes very \boxtimes effective Community can reduce its \Rightarrow greenhouse gas emissions in the Union and \Leftrightarrow its \boxtimes the Union's ⊠ dependence on imported ⇒ gas and ⇔ oil in the transport sector, in which the security of energy supply problem is most acute, and influence the fuel market for transport.

new

- (4) Directive 2009/28/EC established a regulatory framework for the promotion of the use of energy from renewable sources which set binding national targets on the share of renewable energy sources in energy consumption and transport to be met by 2020. Commission Communication of 22 January 2014⁶ established a framework for future Union energy and climate policies and promoted a common understanding of how to develop those policies after 2020. The Commission proposed that the Union 2030 target for the share of renewable energy consumed in the Union should be at least 27%.
- The European Council of October 2014 endorsed that target, indicating that Member States (5) may set their own more ambitious national targets in order to deliver on their planned contributions to the Union 2030 target and go beyond them.

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[&]quot;A policy framework for climate and energy in the period from 2020 to 2030" (COM/2014/015 final).

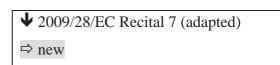
- (6) The European Parliament, in its Resolutions on "A policy framework for climate and energy in the period from 2020 to 2030" and on "the Renewable energy progress report", has favoured a binding Union 2030 target of at least 30% of total final energy consumption from renewable energy sources, stressing that that target should be implemented by means of individual national targets taking into account the individual situation and potential of each Member State.
- (7) It is thus appropriate to establish a Union binding target of at least 27% share of renewable energy. Member States should define their contribution to the achievement of this target as part of their Integrated National Energy and Climate Plans through the governance process set out in Regulation [Governance].
- (8) The establishment of a Union binding renewable energy target for 2030 would continue to encourage the development of technologies which generate renewable energy and provide certainty for investors. A target defined at the Union level would leave greater flexibility for Member States to meet their greenhouse gas reduction targets in the most cost-effective manner in accordance with their specific circumstances, energy mixes and capacities to produce renewable energy.

- (9) In order to ensure the consolidation of the results achieved under Directive 2009/28/EC, the national targets set for 2020 should constitute Member States' minimum contribution to the new 2030 framework. Under no circumstances the national share of renewables should fall below such contribution and in that case [Member States report from 2021 onwards values lower than the national targets set for 2020, the relevant Member States should take the appropriate measures to ensure that this baseline is maintained [] as set out in Regulation [Governance]. If a Member State does not maintain its baseline share as measured over a one-year period, it should, within one year, take additional measures to cover this gap to its baseline scenario. Where a Member State has effectively taken such necessary measures and fulfilled its obligation to cover the gap, it should be deemed to comply with the mandatory requirements of its base-line scenario as from the moment in time when the gap in question occurred and both under this Directive and under Regulation [Governance]. The Member State in question therefore cannot be considered to have failed to fulfil its obligation to maintain its baseline share for the period in time where the gap occurred. Both the 2020 and 2030 frameworks indissociably serve the environmental and energy policy objectives of the Union.
- (9bis) Whether a Member State has effectively reached its national overall target in 2020 will only be known after the date on which the repeal of Directive 2009/28/EC takes effect.

 It should therefore be clarified that the repeal of Directive 2009/28/EC is not to affect the obligation of a Member State to reach its national overall target in 2020.

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- (10) Member States should take additional measures in the event that the share of renewables at the Union level does not meet the Union trajectory towards the at least 27% renewable energy target. As set out in Regulation [Governance], if an ambition gap is identified by the Commission during the assessment of the Integrated National Energy and Climate Plans, the Commission may take measures at Union level in order to ensure the achievement of the target. If a delivery gap is identified by the Commission during the assessment of the Integrated National Energy and Climate Progress Reports, Member States should apply the measures set out in Regulation [Governance], which are giving them enough flexibility to choose.
- (11) In order to support Member States' ambitious contributions to the Union target, a financial framework aiming to facilitate investments in renewable energy projects in those Member States should be established, also through the use of financial instruments.
- of renewables projects, which has a material impact on the cost of renewable energy projects and on their competitiveness, as well as to the development of essential infrastructure for an enhanced technically and economically affordable uptake of renewable energy such as transmission and distribution grid infrastructure, intelligent networks and interconnections.
- (13) The Commission should facilitate the exchange of best practices between the competent national or regional authorities or bodies, for instance through regular meetings to find a common approach to promote a higher uptake of cost-efficient renewable energy projects, encourage investments in new, flexible and clean technologies, and set out an adequate strategy to manage the retirement of technologies which do not contribute to the reduction of emissions or deliver sufficient flexibility, based on transparent criteria and reliable market price signals.



(14)Directive 2001/77/EC of the European Parliament and of the Council of 27 September 2001 on the promotion of electricity produced from renewable energy sources in the internal electricity market and, Directive 2003/30/EC of the European Parliament and of the Council of 8 May 2003 on the promotion of the use of biofuels or other renewable fuels for transport⁸, ⇒ and Regulation (EC) 1099/2008 of the European Parliament and of the Council ⁹ established definitions for different types of energy from renewable sources. Directive 2003/54/EC XXXX/XX/EU of the European Parliament and of the Council of 26 June 2003XX concerning common rules for the internal market in electricity

□ 10 □ established definitions for the electricity sector in general. In the interests of legal certainty and clarity it is appropriate to use \(\omega \) those \(\omega \) the same or similar definitions in this Directive.

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Directive 2001/77/EC of the European Parliament and of the Council of 27 September 2001 on the promotion of electricity produced from renewable energy sources in the internal electricity market (OJ L 283, 27.10.2001, p. 33).

⁸ Directive 2003/30/EC of the European Parliament and of the Council of 8 May 2003 on the promotion of the use of biofuels or other renewable fuels for transport (OJ L 123, 17.5.2003, p. 42).

Regulation (EC) 1099/2008 of the European Parliament and of the Council of 22 October 2008 on energy statistics (OJ L 304, 14.11.2008, p. 1)

¹⁰ Directive XXXX/XX/EU of the European Parliament and of the Council of ... concerning common rules for the internal market in electricity (OJ L...) ☒

new

- (15) Support schemes for electricity generated from renewable sources have proved to be an effective way of fostering deployment of renewable electricity. If and when Member States decide to implement support schemes, such support should be provided in a form that is as non-distortive as possible for the functioning of electricity markets. To this end, an increasing number of Member States allocate support in a form where support is granted in addition to market revenues and introduce market-based systems to determine the necessary level of support. Together with steps to make the market fit for rising shares of renewables this is a key element of increasing the market integration of renewables. For small-scale and demonstration projects specific conditions including feed-in-tariffs might still be necessary to ensure a positive cost-benefit ratio. These conditions should be in line with the rules set out in Article 11 of the Regulation [Electricity Market regulation].
- (16)Electricity generation from renewable sources should be deployed at the lowest possible cost for consumers and taxpayers. When designing support schemes and when allocating support, Member States should seek to minimise the overall system cost of deployment along the decarbonisation pathway towards the low-carbon economy objective for the year 2050. Market-based mechanisms, such as competitive bidding have proven to effectively reduce support cost in competitive markets in many circumstances. However, in specific circumstances of very limited competition, competitive bidding may not necessarily lead to efficient price discovery. For this reason balanced exemptions may need to be considered to ensure cost-effectivness and minimise overall support cost. While Member States develop their support schemes they should consider various outcomes that market-based mechanisms may have on policies outside the electricity sector and may consider limiting bidding processes to specific technologies may be justified where there is a need to take [] full account of grid and system integration and development needs, the resulting energy mix, and the long term potential of technologies. Such technology specific support also allows to take into account the technology specific characteristics such as different lead times, spatial planning requirements and environmental permitting requirements, which might impede efficient competition across technologies.

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(16bis) While Member States should be required to progressively and partially open support to projects located in other Member States, opening of support schemes should remain voluntary beyond this mandatory share. Member States have different renewable energy potentials and operate different schemes of support for energy from renewable sources at the national level. The majority of Member States apply support schemes that grant benefits solely to energy from renewable sources that is produced on their territory. For the proper functioning of national support schemes it is vital that Member States continue to be able to control the effect and costs of their national support schemes according to their different potentials. One important means to achieve the aim of this Directive remains to guarantee the proper functioning of national support schemes, as under Directives 2001/77/EC and 2009/28/EC, in order to maintain investor confidence and allow Member States to design effective national measures for their respective contribution to the Union's 2030 target for renewable energy and for any national target they have set for themselves. This Directive should facilitate cross-border support of energy from renewable sources without affecting national support schemes in a disproportionate manner.

[It should therefore introduce, in addition to the mandatory partial opening of support schemes,[] optional cooperation mechanisms between Member States which also allows them to agree on the further extent to which one Member State supports the energy production in another and on the further extent to which the energy production from renewable sources should count towards the national contribution of one or the other to the Union's 2030 target for renewable energy. In order to ensure the effectiveness of both measures of target compliance, i.e. national support schemes and cooperation mechanisms, it is essential that Member States continue to be able to determine beyond the prescribed minimum share [] if and to what extent their national support schemes apply to energy from renewable sources produced in other Member States and to agree on this by applying the cooperation mechanisms provided for in this Directive.]

(17)The opening of support schemes to cross-border participation limits negative impacts on the internal energy market and can, under certain conditions, help Member States achieve the Union target more cost-efficiently. Cross-border participation is also the natural corollary to the development of the Union renewables policy fostering convergence and cooperation to contribute [] Union-level binding target []. It is therefore appropriate to [require] **encourage** Member States to [progressively and partially] open support to projects located in other Member States, and define several ways in which such progressive opening may be implemented, ensuring compliance with the provisions of the Treaty on the Functioning of the European Union, including Articles 30, 34 and 110. As electricity flows cannot be traced, it is appropriate to [restrict] link the opening to a shares representing an aspiration towards actual levels of physical interconnections and to allow Member States to restrict their open support schemes to Member States with whom they have a direct network connection as a practical proxy for demonstrating the existence of physical flows between the Member States. This should not however in any way affect cross-zonal and cross-border funcitoning of the electricity markets.

- (17bis) In order to ensure that the opening of support schemes is reciprocal and brings mutual benefits a cooperation agreement should be signed between participating Member States. [Member States should not be allowed to restrict the participation of installations located on their territory to support schemes which are opened to them by other Member States. However, Member States should retain control over the pace of deployment of renewable electricity capacity on their territory, in order in particular to take account of associated integration costs and required grid investments. Member States should thus be allowed to limit the participation of installations located on their territory to tenders opened to them by other Member States, where they can demonstrate that doing so would, inter alia, threaten the security of their electricity system or lead to disproportionate costs. The bilateral agreement should sufficiently reflect on all relevant points, such as, reflect on how the costs concerning the project which are built by a state on the territory of another state are accounted for, including the expenditures related to strengthening networks, transfers of energy, storage and back-up capacities, as well as possible congestions in the network. When doing so, Member States should however have taken due consideration of all measures that may allow for a cost-effective integration of such additional renewable electricity capacity, be they of regulatory nature (for instance related to market design) or additional investments in various sources of flexibility (for instance interconnections, storage, demand response, or flexible generation).
- Without prejudice to Articles 107 and 108 of the Treaty on the Functioning of the European Union [], renewables support policies should be stable and avoid unjustified [] retroactive changes. Such changes have a direct impact on capital financing costs, the costs of project development and therefore on the overall cost of deploying renewables in the Union. Member States should prevent the revision of any support that has been granted to renewable energy projects from having a negative impact on their economic viability, unless such a revision, based on clear, objective and pre-defined criteria, had been already envisaged in the original design of the support scheme. In this context, Member States should promote cost-effective support policies and ensure their financial sustainability.

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(19) Member States' obligations to draft renewable energy action plans and progress reports and the Commission's obligation to report on Member States' progress are essential in order to increase transparency, provide clarity to investors and consumers and allow for effective monitoring. Regulation [Governance] integrates those obligations in the Energy Union governance system, where planning, reporting and monitoring obligations in the energy and climate fields are streamlined. The transparency platform on renewable energy is also integrated in the broader e-platform established in Regulation [Governance].

◆ 2009/28/EC Recital 11 (adapted)

(20) It is necessary to set transparent and unambiguous rules for calculating the share of energy from renewable sources and for defining those sources. In this context, the energy present in oceans and other water bodies in the form of waves, marine currents, tides, ocean thermal energy gradients or salinity gradients should be included.

▼ 2009/28/EC Recital 5

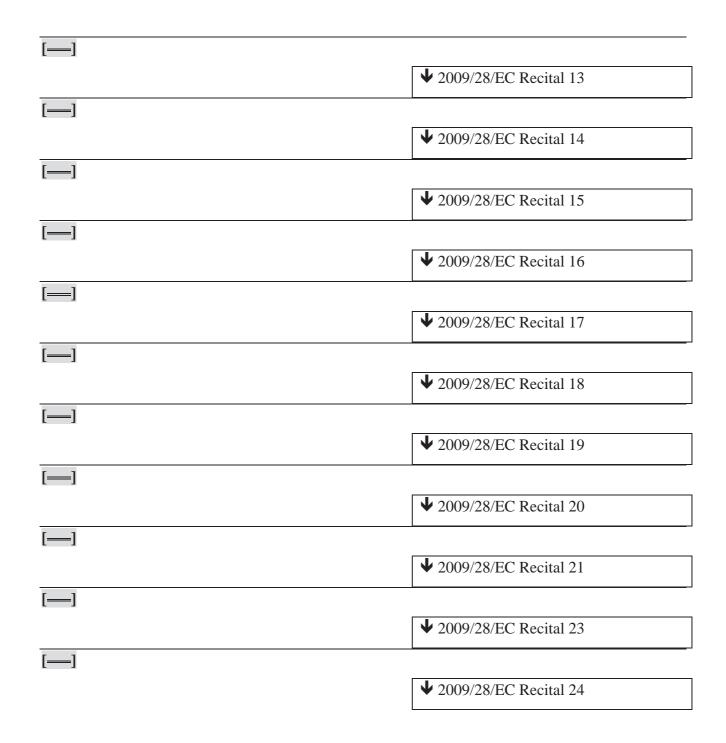
▼ 2009/28/EC Recital 8

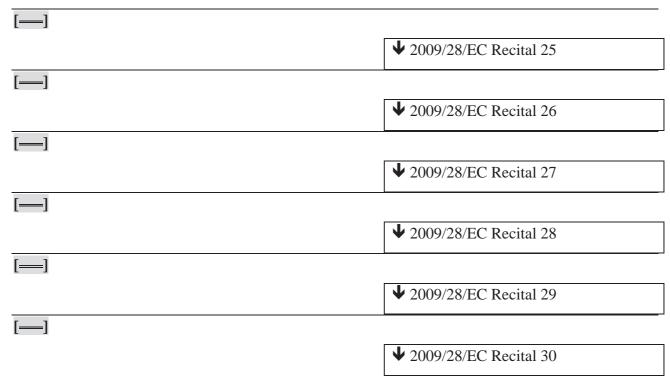
▼ 2009/28/EC Recital 9

▼ 2009/28/EC Recital 10

▼ 2009/28/EC Recital 12

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(21) In calculating the contribution of hydropower and wind power for the purposes of this Directive, the effects of climatic variation should be smoothed through the use of a normalisation rule. Further, electricity produced in pumped storage units from water that has previously been pumped uphill should not be considered to be electricity produced from renewable energy sources.

◆ 2009/28/EC Recital 31

Heat pumps enabling the use of [aerothermal, geothermal or hydrothermal heat]
ambient and geothermal energy at a useful temperature level or systems providing
cooling need electricity or other auxiliary energy to function. The energy used to drive these
systems [heat pumps] should therefore be deducted from the total usable energy or energy
removed from the area[heat]. Only such heating and cooling systems [heat pumps with
an] where the output or energy removed from an area [that] significantly exceeds the
primary energy needed to drive it should be taken into account. Cooling systems contribute
to the energy use in Member States and it is therefore appropriate to take into account
the renewable share of the energy used in such systems.

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▶ 2009/28/EC Recital 32

(23) Passive energy systems use building design to harness energy. This is considered to be saved energy. To avoid double counting, energy harnessed in this way should not be taken into account for the purposes of this Directive.

▶ 2009/28/EC Recital 33 (adapted)

(24)Some Member States have a large share of aviation in their gross final consumption of energy. In view of the current technological and regulatory constraints that prevent the commercial use of biofuels in aviation, it is appropriate to provide a partial exemption for such Member States, by excluding from the calculation of their gross final consumption of energy in national air transport, the amount by which they exceed one-and-a-half times the Community \boxtimes Union \boxtimes average gross final consumption of energy in aviation in 2005, as assessed by Eurostat, i.e. 6,18 %. Cyprus and Malta, due to their insular and peripheral character, rely on aviation as a mode of transport, which is essential for their citizens and their economy. As a result, Cyprus and Malta have a gross final consumption of energy in national air transport which is disproportionally high, i.e. more than three times the Community

☑ Union ☑ average in 2005, and are thus disproportionately affected by the current technological and regulatory constraints. For those Member States it is therefore appropriate to provide that the exemption should cover the amount by which they exceed the Community

☑ Union ☑ average gross final consumption of energy in aviation in 2005 as assessed by Eurostat, i.e. 4,12 %.

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new

(25) In order to ensure that Annex IX takes into account the principles of the waste hierarchy established in Directive 2008/98/EC of the European Parliament and of the Council¹¹, the Union sustainability criteria, and the need to ensure that the Annex does not create additional demand for land while promoting the use of wastes and residues, the Commission, when regularly evaluating the Annex, should consider the inclusion of additional feedstocks that do not cause significant distortive effects on markets for (by-)products, wastes or residues.

▶ 2009/28/EC Recital 34

♦ 2009/28/EC Recital 35

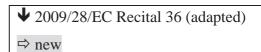
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Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3).





(26)To create opportunities for reducing the cost of achieving ⊠ meeting ⊠ the ⊠ Union ⊠ targets laid down in this Directive ⇒ and to give flexibility to Member States to comply with their obligation not to go below their 2020 national targets after 2020 \Leftrightarrow , it is appropriate both to facilitate the consumption in Member States of energy produced from renewable sources in other Member States, and to enable Member States to count energy from renewable sources consumed in other Member States towards their own ⇒ renewable energy share \leftarrow national targets. For this reason, flexibility measures a European Renewable Energy Platform ("ERDP") will be put in place, enabling trading renewable energy shares between Member States, in addition to bilateral ⇒ cooperation agreements. [are required], but they remain under Member States' control in order not to affect their ability to reach their national targets

→ This shall [to] complement voluntary [the obligations to] opening [] of support schemes to projects located in other Member States

∴ [Those] The flexibility measures

⇒ agreements [] between Member States

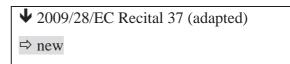
□ include take the form of statistical transfers, joint projects between Member States or joint support schemes.

◆ 2009/28/EC Recital 35 (adapted)

⇒ new

Whilst having due regard to the provisions of this Directive, Member States should be encouraged to pursue all appropriate forms of cooperation in relation to the objectives set out in this Directive. Such cooperation can take place at all levels, bilaterally or multilaterally. Apart from the mechanisms with effect on target ⇒ renewable energy share ⇔ calculation and target compliance, which are exclusively provided for in this Directive, namely statistical transfers between Member States done bilaterally or via ERDP, joint projects and joint support schemes, cooperation can also take the form of, for example, exchanges of information and best practices, as provided for, in particular, in the transparency platform ⋈ e-platform ⋈ established by this Directive, ⋈ Regulation [Governance], ⇔ and other voluntary coordination between all types of support schemes.

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It should be possible for imported electricity, produced from renewable energy sources (28)outside the ⊠ Union ⊠ Community, to count towards Member States'= renewable energy shares \(\sigma\) targets. However, to avoid a net increase in greenhouse gas emissions through the diversion of existing renewable sources and their complete or partial replacement by conventional energy sources, only electricity produced by renewable energy installations that become operational after the entry into force of this Directive or by the increased capacity of an installation that was refurbished after that date should be eligible to be counted. In order to guarantee an adequate effect of energy from renewable sources replacing conventional energy in the Community \boxtimes Union \boxtimes as well as in third countries it is appropriate to ensure that such imports can be tracked and accounted for in a reliable way. Agreements with third countries concerning the organisation of such trade in electricity from renewable energy sources will be considered. If, by virtue of a decision taken under the Energy Community Treaty¹² to that effect, the contracting parties to that €Treaty become ☒ are ☒ bound by the relevant provisions of this Directive, the measures of cooperation between Member States provided for in this Directive will ⊠ should ⊠ be applicable to them.

▶ 2009/28/EC Recital 38

▶ 2009/28/EC Recital 39

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¹² OJ L 198, 20.7.2006, p. 18.

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▶ 2009/28/EC Recital 40 (adapted)

(29) The procedure used by the administration responsible for supervising the authorisation, certification and licensing of renewable energy plants should be objective, transparent, non-discriminatory and proportionate when applying the rules to specific projects. In particular, it is appropriate to avoid any unnecessary burden that could arise by classifying renewable energy projects under installations which represent a high health risk.

◆ 2009/28/EC Recital 42

(30) For the benefit of rapid deployment of energy from renewable sources and in view of their overall high sustainable and environmental beneficial quality, Member States should, when applying administrative rules, planning structures and legislation which are designed for licensing installations with respect to pollution reduction and control for industrial plants, for combating air pollution and for the prevention or minimisation of the discharge of dangerous substances in the environment, take into account the contribution of renewable energy sources towards meeting environmental and climate change objectives, in particular when compared to non-renewable energy installations.

◆ 2009/28/EC Recital 43

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◆ 2009/28/EC Recital 44 (adapted)

other environmental legislation should be ensured. In particular, during the assessment, planning or licensing procedures for renewable energy installations, Member States should take account of all Community ☑ Union ☑ environmental legislation and the contribution made by renewable energy sources towards meeting environmental and climate change objectives, in particular when compared to non-renewable energy installations.

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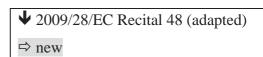
▶ 2009/28/EC Recital 45 (adapted)

(33) At national and regional level, rules and obligations for minimum requirements for the use of energy from renewable sources in new and renovated buildings have led to considerable increases in the use of energy from renewable sources. Those measures should be encouraged in a wider Community ⊠ Union ⊠ context, while promoting the use of more energy-efficient applications of energy from renewable sources through building regulations and codes.

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Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services (OJ L 241, 17.9.2015, p. 1)

OJ L 204, 21.7.1998, p. 37.



It may be appropriate for Member States, iIn order to facilitate and accelerate the setting of minimum levels for the use of energy from renewable sources in buildings, to provide that such levels are achieved by incorporating a factor for energy from renewable sources in meeting minimum energy performance requirements under Directive 2002/91/EC, relating to a cost optimal reduction of carbon emissions per building.

the calculation of those minimum levels in new and existing buildings subject to major renovation should provide sufficient basis for assessing whether the inclusion of minimum levels of renewables is technically, functionally and economically feasible [be consistent with the methodology set out in Directive 2010/31/EU of the European Parliament and of the Council] Member States should among other means allow the use of efficient district heating and cooling as well as other energy infrastructure, where district heating and cooling networks are not available, to fulfill these requirements.

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(35) To ensure that national measures for developing renewable heating and cooling are based on comprehensive mapping and analysis of the national renewable and waste energy potential and provide for increased integration of renewable energy and waste heat and cold sources, it is appropriate to require that Member States carry out an assessment of their national potential of renewable energy sources and the use of waste heat and cold for heating and cooling, in particular to facilitate mainstreaming renewable energy in heating and cooling installations and promote efficient and competitive district heating and cooling as defined by Article 2(41) of Directive 2012/27/EU of the European Parliament and of the Council 16. To ensure consistency with energy efficiency requirements for heating and cooling and reduce administrative burden this assessment should be included in the comprehensive assessments carried out and notified in accordance with Article 14 of that Directive.

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Directive 2010/31/EU of the European Parliament and of the Council of 19 May 2010 on the energy performance of buildings (OJ L 153, 18.6.2010, p. 13).

Directive 2012/27/EU of the European Parliament and of the Council of 25 October 2012 on energy efficiency, amending Directives 2009/125/EC and 2010/30/EU and repealing Directives 2004/8/EC and 2006/32/EC (OJ L 315, 14.11.2012, p. 1).

◆ 2009/28/EC Recital 41	
⇒ new	

The lack of transparent rules and coordination between the different authorisation bodies has (36)been shown to hinder the deployment of energy from renewable sources. ⇒ [Facilitating] Providing guidance to the applicants throughout their permit-granting **processes through an** [] administrative contact point [] should reduce complexity for the **project developer** and increase efficiency and transparency. \Leftrightarrow Therefore the specific structure of the renewable energy sector should be taken into account when national, regional and local authorities review their administrative procedures for giving permission to construct and operate plants and associated transmission and distribution network infrastructures for the production of electricity, heating and cooling or transport fuels from renewable energy sources. [] Administrative approval procedures for installations using energy from renewable sources should be streamlined with transparent timetables and time limits for decisions, to the extent possible, taking into account possible unforeseeable delays that may occure in the process. A manual of procedures should be made available to facilate the understanding of procedures for project developers and citizens wishing to invest in renewable energy sources. In order to foster the uptake of renewables by micro, small and medium-sized enterprises (SMEs) and ← individual citizens to the objectives set out in this Directive, the relevant authorities should consider the possibility of replacing [authorisations] decisions on grid connection ⇒ should be replaced ← by simple notifications to the competent body when installing small \Rightarrow for small renewable energy projects, including \Leftarrow decentralised \Rightarrow ones such as rooftop solar installations. In order to respond to the increasing need for the repowering of existing renewables plants, [accelerated] streamlined permit granting procedures should be set out. Planning rules and guidelines should be adapted to take into consideration cost-effective and environmentally beneficial renewable heating and cooling and electricity equipment.

⇒ This Directive, in particular the provisions on the organisation and duration of the permit granting process, should apply without prejudice to international and Union law, including provisions to protect the environment and human health.

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(38) Another barrier to the cost-effective deployment of renewables is the lack of predictability by investors over the expected deployment of support by Member States. In particular, Member States should ensure that investors have sufficient predictability on the planned use of support, in the form of, inter alia, support schemes, tax incentives or market-based renewable energy obligation schemes, by Member States. This allows industry to plan and develop a supply chain, leading to lower overall cost of deployment.



[]¹⁷

♦ 2009/28/EC Recital 49

(40) Information and training gaps, especially in the heating and cooling sector, should be removed in order to encourage the deployment of energy from renewable sources.

Note: parts of recital 39 were incorporated in recital 36.

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▶ 2009/28/EC Recital 50

(41) In so far as the access or pursuit of the profession of installer is a regulated profession, the preconditions for the recognition of professional qualifications are laid down in Directive 2005/36/EC of the European Parliament and of the Council of 7 September 2005 on the recognition of professional qualifications 18 This Directive therefore applies without prejudice to Directive 2005/36/EC.

▶ 2009/28/EC Recital 51

(42) While Directive 2005/36/EC lays down requirements for the mutual recognition of professional qualifications, including for architects, there is a further need to ensure that architects and planners properly consider an optimal combination of renewable energy sources and high-efficiency technologies in their plans and designs. Member States should therefore provide clear guidance in this regard. This should be done without prejudice to the provisions of Directive 2005/36/EC and in particular Articles 46 and 49 thereof.

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Directive 2005/36/EC of the European Parliament and of the Council of 7 September 2005 on the recognition of professional qualifications (OJ L 255, 30.9.2005, p. 22).

▶ 2009/28/EC Recital 52 (adapted)

Guarantees of origin issued for the purpose of this Directive have the sole function of proving Showing It to a final customer that a given share or quantity of energy was produced from renewable sources. A guarantee of origin can be transferred, independently of the energy to which it relates, from one holder to another. However, with a view to ensuring that a unit of electricity from renewable energy sources is disclosed to a customer only once, double counting and double disclosure of guarantees of origin should be avoided. Energy from renewable sources in relation to which the accompanying guarantee of origin has been sold separately by the producer should not be disclosed or sold to the final customer as energy from renewable sources. It is important to distinguish between green certificates used for support schemes and guarantees of origin.

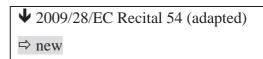
◆ 2009/28/EC Recital 53 (adapted)

⇒ new

energy sources to contribute to the eonstruction ⇒ development ⇔ of new installations for energy from renewable sources. Member States should therefore be able to require electricity suppliers who disclose their energy mix to final customers in accordance with Article X 3(6) of Directive [Market Design]2003/54/EC, ⇒ or who market energy ⇔ to include ⇒ consumers with ⇔ a minimum percentage ⇒ reference to the consumption of energy from renewable sources, to use ⇔ of guarantees of origin from recently constructed installations producing energy from renewable sources, provided that such a requirement is in conformity with Community law.

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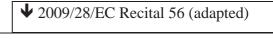
(45) It is important to provide information on how the supported electricity is allocated to final customers in accordance with Article 3(6) of Directive 2003/54/EC. In order to improve the quality of that information to consumers, in particular as regards the amount of energy from renewable sources produced by new installations, the Commission should assess the effectiveness of the measures taken by Member States ⇒ Member States should ensure that guarantees of origin are issued for all units of renewable energy produced, except for when they decide not to issue guarantees of origin to producers who also receive financial support, to account for the market value of the guarantees of origin. In addition, with a view to avoiding double compensation, renewable energy producers already receiving financial support should [] have the market value of the guarantees of origin issued to them deducted in that relevant support scheme. []

♦ 2009/28/EC Recital 55
⇒ new

Objective 2004/8/EC 2012/27/EU of the European Parliament and of the Council of 11
February 2004 on the promotion of cogeneration based on a useful heat demand in the internal energy market ¹⁰ provides for guarantees of origin for proving the origin of electricity produced from high-efficiency cogeneration plants. ⇒ However, no use is specified for ⇔ Such guarantees of origin eannot ⇒, so their use should also ⇔ be the enabled when disclosing the use of energy from renewable sources in accordance with Article 3(6) of Directive 2003/54/EC as this might result in double counting and double disclosure. 2012/27/EC on energy efficiency provides for guarantees of origin for proving the origin of electricity produced from high-efficiency cogeneration plants. However no use is specified for such guarantees of origin cannot, so they should also be used when disclosing the use of energy from renewable sources in accordance with Article 3(6) of Directive 2003/54/EC as this might result in double counting and double disclosure ⇒ high efficiency CHP ⇔.

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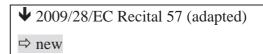
OJ L 52, 21.2.2004, p. 50.



[—]

new

(47) Guarantees of origin, which are currently in place for renewable electricity [and renewable heating and cooling], should be extended to cover renewable gas. Extending the guarantees of origin system to renewable heating and cooling and fossil fuel sources as an option should also be enabled. This would provide a consistent means of proving to final customers the origin of renewable gases such as biomethane and would facilitate greater cross-border trade in such gases. It would also enable the creation of guarantees of origin for other renewable gases such as hydrogen.



(48) There is a need to support the integration of energy from renewable sources into the transmission and distribution grid and the use of energy storage systems for integrated intermittent ⇒ variable ⇔ production of energy from renewable sources, ⇒ in particular as regards the rules regulating dispatch and access to the grid. Directive [Electricity Market Design] lays down the framework for the integration of electricity from renewable energy sources. However, this framework does not include provisions on the integration of gas from renewable energy sources into the gas grid. It is therefore necessary to keep them in this Directive . ⇔

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▶ 2009/28/EC Recital 3 (adapted)

(49) The opportunities for establishing economic growth through innovation and a sustainable competitive energy policy have been recognised. Production of energy from renewable sources often depends on local or regional small and medium-sized enterprises (SMEs). The opportunities for growth and employment that investments in regional and local production of energy from renewable sources bring about in the Member States and their regions are important. The Commission and the Member States should therefore support national and regional development measures in those areas, encourage the exchange of best practices in production of energy from renewable sources between local and regional development initiatives and promote the use of structural cohesion policy funding in this area.

◆ 2009/28/EC Recital 4

(50) When favouring the development of the market for renewable energy sources, it is necessary to take into account the positive impact on regional and local development opportunities, export prospects, social cohesion and employment opportunities, in particular as concerns SMEs and independent energy producers.

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new

(51) The specific situation of the outermost regions is recognised in Article 349 of the Treaty on the Functioning of the European Union. The energy sector in the outermost regions is often characterised by isolation, limited supply and dependence on fossil fuels while these regions benefit from important local renewable sources of energy. The outermost regions could thus serve as examples of the application of innovative energy technologies for the Union. It is therefore necessary to promote the uptake of renewable energy in order to achieve a higher degree of energy autonomy for those regions and recognise their specific situation in terms of renewable energy potential and public support needs.

(52) It is appropriate to support the demonstration and commercialisation phase ⇒ allow for the development ⇔ of decentralised renewable energy technologies ⇒ under non-discriminatory conditions and without hampering the financing of infrastructure investments ⇔ .The move towards decentralised energy production has many benefits, including the utilisation of local energy sources, increased local security of energy supply, shorter transport distances and reduced energy transmission losses. Such decentralisation also fosters community development and cohesion by providing income sources and creating jobs locally.

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new

- (53) With the growing importance of self-consumption of renewable electricity, there is a need for a definition of renewable self-consumers and a regulatory framework which would empower self-consumers to generate, store, consume and sell electricity without facing disproportionate burdens. [] Citizens living in apartments for example should be able to ean benefit from consumer empowerment to the same extent as households in single family homes. While it is quite common that generation of renewable energy takes place on the same site of consumption, it is appropriate to allow Member States themselves to set the boundaries within which self-consumption may take place by, for example, further defining the geographic scope or excluding the use of the public grid, ensuring a level playing field and equal treatment within their respective frameworks.
- (53bis) Renewable self-consumers should not face disproportionate burdens and costs. Their contribution to the achievement of the climate and energy target and the costs and benefits they induce in the wider energy system should be taken into account. However, at the same time and in particular when assessing the cost-reflectiveness of charges Member States should ensure that all consumers contribute in a balanced and adequate way to the overall cost-sharing system of producing, distributing and consuming electricity through charges, levies and taxes, including costs related to support granted to renewable electricity in a way that allows renewable self-consumption and achieves proportionality and system financial sustainability. Provided that these conditions are met and without prejudice to Articles 107 and 108 of the Treaty on the Functioning of the European Union, Member States should retain the right to apply different financial conditions to groups of self-consumers, such as citizens living in apartments, or commercial sites, compared to individual self-consumers, such as households in single family homes.

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(54) Local citizen participation in renewable energy projects through renewable energy communities has resulted in substantial added value in terms of local acceptance of renewable energy and access to additional private capital. This local involvement will be all the more crucial in a context of increasing renewable energy capacity in the future.

Measures to allow renewable energy communities to compete on an equal footing with other producers also aim to increase local citizen participation in renewable energy projects and therefore increase acceptance for renewable energies.

- (55) The specific characteristics of local renewable energy communities in terms of size, ownership structure and the number of projects can hamper their competition on equal footing with large-scale players, namely competitors with larger projects or portfolios. Measures to offset those disadvantages include enabling energy communities to operate in the energy system and easing their market integration. Renewable energy communities should be able to share between themselves energy that is produce by their community-owned installations. However, community members should not be exempt from appropriate costs, charges, levies and taxes that would be born by non-community member final consumers or generators in a similar situationt or when any kind of public grid infrastructure is used for these transfers.
- (55bis) Renewable energy communities, as well as self-consumers, should contribute in a balanced and adequate way to the overall cost-sharing system of producing, distributing and consuming electricity, also through charges, levies and taxes, including, if applicable, costs related to support granted to renewable electricity. Member States should be able to introduce regulatory measures and conditions in order to avoid misuse and unfair competition.
- (56) Representing around half of the final energy consumption of the Union, heating and cooling is considered to be a key sector in accelerating the decarbonisation of the energy system. Moreover, it is also a strategic sector in terms of energy security, as it is projected that around 40% of the renewable energy consumption by 2030 should come from renewable heating and cooling. The absence of a harmonised strategy at Union level, the lack of internalisation of external costs and the fragmentation of heating and cooling markets have led to relatively slow progress in this sector so far.

- (57)Several Member States have implemented measures in the heating and cooling sector to reach their 2020 renewable energy target. However, in the absence of binding national targets post-2020, the remaining national incentives may not be sufficient to reach the longterm decarbonisation goals for 2030 and 2050. In order to be in line with such goals, reinforce investor certainty and foster the development of a Union-wide renewable heating and cooling market, while respecting the energy efficiency first principle, it is appropriate to encourage the effort of Member States in the supply of renewable heating and cooling to contribute to the progressive increase of the share of renewable energy. Given the fragmented nature of some heating and cooling markets, it is of utmost importance to ensure flexibility in designing such an effort. It is also important to ensure that a potential uptake of renewable heating and cooling does not have detrimental environmental side-effects or lead to disproportionate overall costs. In order to minimise this risk, the increase of the share of renewable energy in heating and cooling should take into account the situation of those Member States where this share is already very high as well as the fact that increasing the share of renewable energy sources in district heating and cooling systems in the pace set out as a reference value, may not be the most cost efficient way to increase the overall share of renewable energy sources in the system and to reduce greenhouse gas emissions. Member States should be allowed to set a value that is different from the reference value for their plans.
- (58) District heating and cooling currently represents around 10% of the heat demand across the Union, with large discrepancies between Member States. The Commission's heating and cooling strategy has recognised the potential for decarbonisation of district heating through increased energy efficiency and renewable energy deployment.
- (59) The Energy Union strategy also recognised the role of the citizen in the energy transition, where citizens take ownership of the energy transition, benefit from new technologies to reduce their bills, and participate actively in the market.

- (60) The potential synergies between an effort to increase the uptake of renewable heating and cooling and the existing schemes under Directives 2010/31/EU and 2012/27/EU should be emphasised. Member States should, to the extent possible, have the possibility to use existing administrative structures to implement such effort, in order to mitigate the administrative burden.
- In the area of district heating, it is therefore crucial to enable the consumer to request the suppy of heat [the fuel-switching to] from renewable energy sources and prevent regulatory and technology lock-in and technology lock-out through reinforced rights for renewable energy producers and final consumers, and bring the tools to end-consumers to facilitate their choice between the highest energy performance solution that take into account future heating and cooling needs in line with expected building performance criteria. The final user should be given transparent and reliable information on the efficiency of the network and the share of renewable energy sources in their specific heat supply. It is also appropriate that a final user has the opportunity to explicitly request delivery of heating products only from renewable energy sources.
- [3] To prepare for the transition towards advanced biofuels and minimise the overall indirect land-use change impacts, it is appropriate to [3] limit the amount of biofuels and bioliquids produced from cereal and other starch-rich crops, sugars and oil [3] crops that can be counted towards the [4] targets set out in this Directive, without restricting the overall possibility to use such biofuels and bioliquids.

The establishment of a limit at Union level should not prevent Member States from providing for lower limits on the amount of biofuels and bioliquids produced from cereal and other starch-rich crops, sugars and oil crops that can be counted at national level towards the targets set out in this Directive, without restricting the overall possibility to use such biofuels and bioliquids.

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- (62bis) Yield increases in agricultural sectors through intensified research, technological development and knowledge transfer beyond levels which would have prevailed in the absence of productivity-promoting schemes for food and feed crop-based biofuels, as well as the cultivation of a second annual crop on areas which were previously not used for growing a second annual crop, can contribute to mitigating indirect land-use change.
- (63)Directive (EU) 2015/1513 of the European Parliament and of the Council²⁰ called on the Commission to present without delay a comprehensive proposal for a cost-effective and technology-neutral post-2020 policy in order to create a long-term perspective for investment in sustainable biofuels with a low risk of causing indirect land-use change with a headline target of decarbonising the transport sector. An obligation on Member States to require [] fuel suppliers to deliver an overall share of fuels from renewable **energy sources** can provide certainty for investors and encourage the continuous development of alternative renewable transport fuels including advanced biofuels, renewable liquid and gaseous transport fuels of non-biological origin, and renewable electricity in transport. [] Since renewable alternatives might not be freely and cost-efficiently available for all fuel suppliers, it is appropriate to allow Member States to distinguish between them and to exempt, if necessary, types of fuel suppliers from the obligation. As transport fuels are traded easily, fuel suppliers in Member States with low endowments of the relevant resources should be able to easily obtain renewable fuels from elsewhere.

(63bis) A European database should be put in place to ensure transparency and traceability of sustainable biofuels. While Member States should be allowed to continue to use or establish national databases, these databases should be linked to the European database, in order to ensure instant data transfers and harmonisation of data flows.

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²⁰ Directive (EU) 2015/1513 of the European Parliament and of the Council of 9 September 2015 amending Directive 98/70/EC relating to the quality of petrol and diesel fuels and amending Directive 2009/28/EC on the promotion of the use of energy from renewable sources (OJ L 239, 15.9.2015, p. 1).

- Advanced biofuels and other biofuels and biogas produced from feedstock listed in Annex IX, renewable liquid and gaseous transport fuels of non-biological origin, and renewable electricity in transport can contribute to low carbon emissions, stimulating the decarbonisation of the Union transport sector in a cost-effective manner, and improving inter alia energy diversification in the transport sector while promoting innovation, growth and jobs in the Union economy and reducing reliance on energy imports. [] An obligation on Member States to require fuel[] suppliers a share of advanced biofuels should encourage continuous development of advanced fuels, including biofuels, and it is important to ensure that the incorporation obligation also incentivises improvements in the greenhouse gas performance of the fuels supplied to meet it. The Commission should assess the greenhouse gas performance, technical innovation and sustainability of those fuels.
- (64bis) Multipliers for renewable electricity supplied for the transport sector should be used for the promotion of using electricity in transport and in order to reduce the comparative disadvantage in energy statistics. An electric drivetrain is about three times more energy efficient than a combustion engine and it is not possible to account for all electricity supplied for electric rail and road vehicles in statistics through dedicated metering (e.g. charging at home), thus multipliers should be used to ensure positive impacts of electrified renewable energy-based transport are properly accounted for.
- (64-ter) In light of climatic constraints that limit the possibility to consume certain types of biofuels due to environmental and health concerns, and the absence of railways system in their territory, it is appropriate that Cyprus and Malta should, for the purposes of demonstrating compliance with national renewable energy obligations placed on fuels suppliers, be allowed to take into account these inherent limitations.

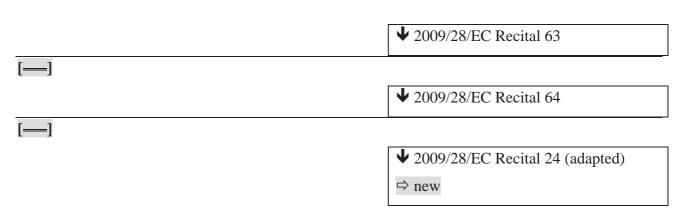
- (65) The promotion of recycled carbon fuels [] that are produced from [] processing gases and exhaust gases of non-renewable origin from industrial installations can also contribute towards the policy objectives of energy diversification and transport decarbonisation when they fulfil the appropriate minimum greenhouse gas savings threshold. It is therefore appropriate to include those fuels in the [] obligation on fuel suppliers, whilst giving Member States the option not to consider these fuels in the obligation if they do not wish to do so.
- (66) Feedstocks which have low indirect land use change impacts when used for biofuels, should be promoted for their contribution to the decarbonisation of the economy. Especially feedstocks for advanced biofuels, for which technology is more innovative and less mature and therefore needs a higher level of support, should be included in an annex to this Directive. In order to ensure that this annex is up to date with the latest technological developments while avoiding unintended negative effects, an evaluation should take place after the adoption of the Directive in order to assess the possibility to extend the annex to new feedstocks.

	◆ 2009/28/EC Recital 94
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	◆ 2009/28/EC Recital 59
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	◆ 2009/28/EC Recital 60
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	◆ 2009/28/EC Recital 61

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▶ 2009/28/EC Recital 62 (adapted)
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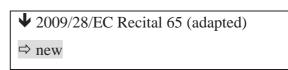
(67) The costs of connecting new producers of electricity and gas from renewable energy sources to the electricity and gas grids should be ⋈ based on ⋈ objective, transparent and non-discriminatory ⋈ criteria ⋈ and due account should be taken of the benefit that embedded producers of electricity from renewable energy sources and local producers of gas from renewable sources bring to the electricity and gas grids.



In order to exploit the full potential of biomass ⇒ to contribute to the decarbonisation of the economy through its uses for materials and energy ⇔, the Community ⊠ Union ⊠ and the Member States should promote greater ⇒ sustainable ⇔ mobilisation of existing timber reserves ⇒ and agricultural resources ⇔ and the development of new forestry ⇒ and agriculture production ⇔ systems. Examples of such systems are cultivation of intermediate or cover crops, which are cultivated when the growing conditions are not optimal or favourable for the cultivation of main crop. Since grown on the same land used for the main crop production, intermediate crops do not trigger demand for additional land. Intermediate crops increase the agricultural output per unit area improving soil quality and reducing soil erosion.

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always be produced in a sustainable. Biofuels ⇒, bioliquids and biomass fuels should always be produced in a sustainable manner. Biofuels, bioliquids and biomass fuels ⇔ used for compliance with the ⊠ Union ⊠ targets laid down in this Directive, and those that ⊠ which ⊠ benefit from national support schemes, should therefore be required to fulfil sustainability ⇒ and greenhouse gas emissions savings ⇔ criteria. The harmonisation of these criteria for biofuels, bioliquids and biomass is essential for the achievement of energy policy objectives of the Union as set out in Article 194(1) of Treaty on the Functioning of the European Union. In this context, it ensures the functioning of the internal energy market and thus facilitates, especially with regard to Article 26(9) of this Directive, trade between Member States in compliant biofuels, bioliquids and biomass fuels. The positive effects of the harmonisation of the above criteria on the smooth functioning of the internal energy market and on the avoidance of distortion of competition in the Union cannot be frustrated.

V 2009/28/EC Recital 66 (adapted)

⇒ new

(70) The Community

Union

should take appropriate steps in the context of this Directive, including the promotion of sustainability

and greenhouse gas emissions savings

criteria for biofuels

, and for bioliquids and biomass fuels used for heating or cooling and electricity generation

and the development of second and third-generation biofuels in the Community and worldwide, and to strengthen agricultural research and knowledge creation in those areas.

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(71)The increasing worldwide demand ⇒ production of agricultural raw material ⇔ for biofuels, $\frac{1}{2}$ and bioliquids \Rightarrow and biomass fuels \Leftarrow , and the incentives for their use provided for in this Directive, should not have the effect of encouraging the destruction of biodiverse lands. Those Such Sinite resources, recognised in various international instruments to be of value to all mankind, should be preserved. Consumers in the Community would, in addition, find it morally unacceptable that their increased use of biofuels and bioliquids could have the effect of destroying biodiverse lands. For these reasons, iIt is \infty therefore \infty necessary to provide sustainability ⇒ and greenhouse gas emissions savings ⇔ criteria ensuring that biofuels, and bioliquids ⇒ and biomass fuels ⇔ can qualify for the incentives only when it \boxtimes is \boxtimes ean be guaranteed that they \Rightarrow the agricultural raw material \Leftrightarrow does \boxtimes not originate in biodiverse areas or, in the case of areas designated for nature protection purposes or for the protection of rare, threatened or endangered ecosystems or species, the relevant competent authority demonstrates that the production of the ⇒ agricultural ⇔ raw material does not interfere with those with the should consider forest

→ Forests should be considered

→ as biodiverse

→ according to the sustainibility criteria, ⊠ where ⊠ they are ⊠ it is a primary ⊠ forests ⊠ forest in accordance with the definition used by the Food and Agriculture Organisation of the United Nations (FAO) in its Global Forest Resource Assessment, which countries use worldwide to report on the extent of primary forest or where it is \infty they are \infty protected by national nature protection law. Areas where ⊠ the ⊠ collection of non-wood forest products occurs should be \omega considered to be biodiverse forests \omega included, provided the human impact is small. Other types of forests as defined by the FAO, such as modified natural forests, seminatural forests and plantations, should not be considered as primary forests. Having regard, furthermore, to the highly biodiverse nature of certain grasslands, both temperate and tropical, including highly biodiverse savannahs, steppes, scrublands and prairies, biofuels ⇒, bioliquids and biomass fuels ⇔ made from ⇒ agricultural ⇔ raw materials originating in such lands should not qualify for the incentives provided for by this Directive. The Commission should establish appropriate criteria and geographical ranges to define such highly biodiverse grasslands in accordance with the best available scientific evidence and relevant international standards.

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	◆ 2009/28/EC Recital 70
[—]	
	◆ 2009/28/EC Recital 71
[—]	
	◆ 2009/28/EC Recital 72
[—]	
	◆ 2009/28/EC Recital 73 (adapted)
	⇒ new

(72)not, within a reasonable period, taking into account the urgency of tackling climate change, use \Leftrightarrow of biofuels, \Leftrightarrow bioliquids \Rightarrow and biomass fuels \Leftrightarrow . This would prevent unnecessary, burdensome research by economic operators and the conversion of high-carbon-stock land that would prove to be ineligible for producing \Rightarrow agricultural \Leftarrow raw materials for biofuels. and bioliquids ⇒ and biomass fuels ⇐. Inventories of worldwide carbon stocks indicate that wetlands and continuously forested areas with a canopy cover of more than 30 % should be included in that category. Forested areas with a canopy cover of between 10 and 30 % should also be included, unless there is evidence demonstrating that their earbon stock is sufficiently low to justify their conversion in accordance with the rules laid down in this Directive. The reference to wetlands should take into account the definition laid down in the Convention on Wetlands of International Importance, especially as Waterfowl Habitat, adopted on 2 February 1971 in Ramsar.

↑ new

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- (74) In the framework of the Common Agricultural Policy Union, farmers should comply with a comprehensive set of environmental requirements in order to receive direct support. Compliance with those requirements can be most effectively verified in the context of agricultural policy. Including those requirements in the sustainability scheme is not appropriate as the sustainability criteria for bioenergy should set out rules that are objective and apply globally. Verification of compliance under this Directive would also risk causing unnecessary administrative burden.
- (75) It is appropriate to introduce Union-wide sustainability and greenhouse gas emission saving criteria for biomass fuels used in the electricity and heating and cooling generation, in order to continue to ensure high greenhouse gas savings compared to fossil fuel alternatives, to avoid unintended sustainability impacts, and to promote the internal market.
- To ensure that, despite the growing demand for forest biomass, harvesting is carried out in a sustainable manner in forests where regeneration is ensured, that special attention is given to areas explicitly designated for the protection of biodiversity, landscapes and specific natural elements, that biodiversity resources are preserved and that carbon stocks are tracked, woody raw material should come only from forests that are harvested in accordance with the principles of sustainable forest management developed under international forest processes such as Forest Europe and are implemented through national laws or the best management practices at the forest holding level. Operators should take the appropriate steps in order to minimise the risk of using unsustainable forest biomass for the production of bioenergy. To that end, operators should put in place a risk-based approach. In this context, it is apporpriate for the Commission to develop operational guidance on the verification of compliance with the risk based approach, following the consultation of the Energy Union Governance Committee, and the Standing Forestry Committee established by Council Decision 89/367/EEC²¹.

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Council Decision 89/367/EEC of 29 May 1989 setting up a Standing Forestry Committee (OJ L 165, 15.6.1989, p. 14).

- (77) In order to minimise the administrative burden, the Union sustainability and greenhouse gas saving criteria should apply only to electricity and heating from biomass fuels produced in installations with a [] total rated thermal input equal or above to 20 MW.
- (78)Biomass fuels should be converted into electricity and heat in an efficient way in order to maximise energy security and greenhouse gas savings, as well as to limit emissions of air pollutants and minimise the pressure on limited biomass resources. For this reason, public support to installations with a [] total rated thermal input equal to or exceeding 20 MW, if needed, should only be given to highly efficient combined power and heat installations as defined Article 2(34) of Directive 2012/27/EU. Existing support schemes for biomass-based electricity should however be allowed until their due end date for all biomass installations. In addition electricity produced from biomass in new installations with a **[] total rated** thermal input equal to or exceeding 20 MW should only count towards renewable energy targets and obligations in the case of highly efficient combined power and heat installations. In accordance with State aid rules, Member States should however be allowed to grant public support for the production of renewables to installations, and count the electricity they produce towards renewable energy targets and obligations, in order to avoid an increased reliance on fossil fuels with higher climate and environmental impacts where, after exhausting all technical and economic possibilities to install highly efficient combined heat and power biomass installations, Member States would face a substantiated risk to security of supply of electricity.
- (79) The minimum greenhouse gas emission savings threshold for biofuels and bioliquids produced in new installations should be increased in order to improve their overall greenhouse gas balance as well as to discourage further investments in installations with a low greenhouse gas emission savings performance. This increase provides investment safeguards for biofuels and bioliquids production capacities.

(80)	Based on experience in the practical implementation of the Union sustainability criteria, it			
	appropriate to strengthen the role of voluntary international and national certification			
	schemes for verification of compliance with the sustainability criteria in a harmonised manner.			
		◆ 2009/28/EC Recital 74		
[—]				
		◆ 2009/28/EC Recital 75		
[—]				
		¥ 2009/28/EC Recital 76		
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		◆ 2009/28/EC Recital 77		
[—]				
		◆ 2009/28/EC Recital 78		
[]				
		♦ 2009/28/EC Recital 79 (adapted)		

It is in the interests of the Community ⊠ Union ⊠ to encourage the development of (81)multilateral and bilateral agreements and voluntary international or national schemes that set standards for the production of sustainable biofuels, and bioliquids ⇒, and biomass fuels ⇔ and that certify that the production of biofuels, and-bioliquids ⇒, and biomass fuels ⇔ meets those standards. For that reason, provision should be made for such agreements or schemes should to be recognised as providing reliable evidence and data, where where they meet adequate standards of reliability, transparency and greenhouse gas emissions savings criteria is verified in a robust and harmonised manner and in particular to prevent fraud, the Commission should be empowered to set out detailed implementing rules, including adequate standards of reliability, transparency and

⇒ new

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new

- Woluntary schemes play an increasingly important role in providing evidence of compliance with the sustainability and greenhouse gas emissions saving criteria for biofuels, bioliquids and biomass fuels. It is therefore appropriate for the Commission to require voluntary schemes, including those already recognised by the Commission, to report regularly on their activity. Such reports should be made public in order to increase transparency and to improve supervision by the Commission. Furthermore, such reporting would provide the necessary information for the Commission to report on the operation of the voluntary schemes with a view to identifying best practice and submitting, if appropriate, a proposal to further promote such best practice.
- (83) To facilitate the functioning of the internal market, evidence regarding the sustainability and greenhouse gas emissions criteria for biomass for energy that has been obtained in accordance with a scheme that has been recognised by the Commission should be accepted in all Member States. Member States should contribute towards ensuring the correct implementation of the certification principles of voluntary schemes by supervising the operation of certification bodies that are accredited by the national accreditation body and by informing the voluntary schemes about relevant observations.

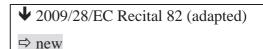
♦ 2009/28/EC Recital 80

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♦ 2009/28/EC Recital 81

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In order to avoid a disproportionate administrative burden, a list of default values should be laid down for common biofuel ⇒, bioliquid and biomass fuel ⇔ production pathways and that list should be updated and expanded when further reliable data is available. Economic operators should always be entitled to claim the level of greenhouse gas emission saving for biofuels, and bioliquids ⇒ and biomass fuels ⇔ established by that list. Where the default value for greenhouse gas emission saving from a production pathway lies below the required minimum level of greenhouse gas emission saving, producers wishing to demonstrate their compliance with this minimum level should be required to show that actual emissions from their production process are lower than those that were assumed in the calculation of the default values.

new

- (85) It is necessary to lay down clear rules for the calculation of greenhouse gas emission savings from biofuels, bioliquids and biomass fuels and their fossil fuel comparators.
- (86) In accordance with the current technical and scientific knowledge, the greenhouse gas accounting methodology should take into account the transformation of the solid and gaseous biomass fuels into final energy in order to be consistent with the calculation of renewable energy for the purposes of counting towards the Union target laid down in this Directive. The allocation of emissions to co-products, as distinct from wastes and residues, should also be reviewed in cases where electricity and/or heating and cooling are produced in co-generation or multi-generation plants.
- [(87) To ensure consistency and comparability of greenhouse gas savings of biomass fuels for heating and cooling, and electricity generation in different Member States, it is appropriate to apply a fossil fuel comparator based on average Union emissions in the heating and electricity sectors.]

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- (88) If land with high stocks of carbon in its soil or vegetation is converted for the cultivation of raw materials for biofuels, bioliquids and biomass fuels, some of the stored carbon will generally be released into the atmosphere, leading to the formation of carbon dioxide. The resulting negative greenhouse gas impact can offset the positive greenhouse gas impact of the biofuels, bioliquids or biomass fuels, in some cases by a wide margin. The full carbon effects of such conversion should therefore be taken into account in calculating the greenhouse gas emission saving of particular biofuels, bioliquids and biomass fuels. This is necessary to ensure that the greenhouse gas emission saving calculation takes into account the totality of the carbon effects of the use of biofuels, bioliquids and biomass fuels.
- (89) In calculating the greenhouse gas impact of land conversion, economic operators should be able to use actual values for the carbon stocks associated with the reference land use and the land use after conversion. They should also be able to use standard values. The methodology of the Intergovernmental Panel on Climate Change is the appropriate basis for such standard values. That work is not currently expressed in a form that is immediately applicable by economic operators. The Commission should therefore revise the guidelines of 10 June 2010 for the calculation of land carbon stocks for the purpose of Annex V to this Directive, while ensuring coherence with Regulation (EU) No 525/2013 of the European Parliament and of the Council²².
- (90) Co-products from the production and use of fuels should be taken into account in the calculation of greenhouse gas emissions. The substitution method is appropriate for the purposes of policy analysis, but not for the regulation of individual economic operators and individual consignments of transport fuels. In those cases the energy allocation method is the most appropriate method, as it is easy to apply, is predictable over time, minimises counter-productive incentives and produces results that are generally comparable with those produced by the substitution method. For the purposes of policy analysis the Commission should also, in its reporting, present results using the substitution method.

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Regulation No 525/2013 of the European Parliament and of the Council of 21 May 2013 on a mechanism for monitoring and reporting greenhouse gas emissions and for reporting other information at national and Union level relevant to climate change and repealing Decision No 280/2004/EC (OJ L 165, 18.6.2013, p. 13)

- (91) Co-products are different from residues and agricultural residues, as they are the primary aim of the production process. It is therefore appropriate to clarify that agricultural crop residues are residues and not co-products. This has no implications on the existing methodology but clarifies the existing provisions.
- (92) The established method of using energy allocation as a rule for dividing greenhouse gas emissions between co-products has worked well and should be continued. It is appropriate to align the methodology for calculating greenhouse gas emissions coming from the use of cogeneration of heat and electricity (CHP) when the CHP is used in processing biofuels, bioliquids and biomass fuels to the methodology applied to a CHP being the end use.
- (93) The methodology takes into account the reduced greenhouse gas emissions arising from the use of CHP, compared to the use of electricity- and heat-only plants, by taking into account the utility of heat compared to electricity, and the utility of heat at different temperatures. It follows that higher temperature should bear a larger part of the total greenhouse gas emissions, than heat at low temperature, when the heat is co-produced with electricity. The methodology takes into account the whole pathway to final energy, including conversion to heat or electricity.

◆ 2009/28/EC Recital 84



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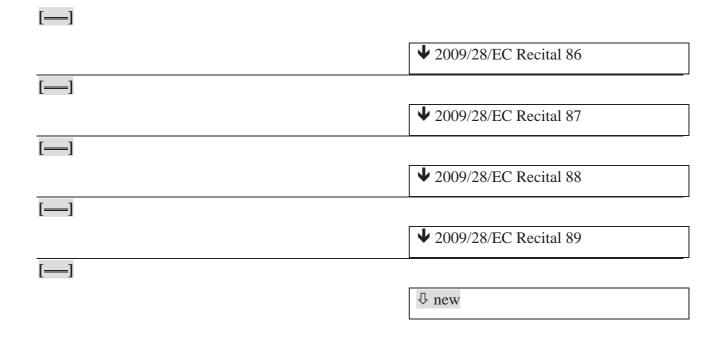
◆ 2009/28/EC Recital 83 (adapted))
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It is appropriate for the data used in the calculation of the default values to be obtained from independent, scientifically expert sources and to be updated as appropriate as those sources progress their work. The Commission should encourage those sources to address, when they update their work, emissions from cultivation, the effect of regional and climatological conditions, the effects of cultivation using sustainable agricultural and organic farming methods, and the scientific contribution of producers, within the Community 🖾 Union 🖾 and in third countries, and civil society.

◆ 2009/28/EC Recital 85 (adapted)

⇒ new

(95) Global demand for agricultural commodities is growing. Part of that increased demand will be met through an increase in the amount of land devoted to agriculture. The restoration of land that has been severely degraded or heavily contaminated and therefore cannot be used, in its present state, for agricultural purposes is a way of increasing the amount of land available for cultivation. The sustainability scheme should promote the use of restored degraded land because the promotion of biofuels, and bioliquids ⇒ and biomass fuels ⇔ will contribute to the growth in demand for agricultural commodities.



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(96) In order to ensure a harmonised implementation of the greenhouse gas emissions calculation methodology and to align to the latest scientific evidence the Commission should be empowered to adapt the methodological principles and values necessary for assessing whether greenhouse gas emissions savings criteria have been fulfilled and to decide that reports submitted by Member States and third countries contain accurate data on cultivation emissions of feedstock.

▶ 2009/28/EC Recital 22 (adapted)

(97) The achievement of the objectives of this Directive requires that the Community

i Union i and Member States dedicate a significant amount of financial resources to research and development in relation to renewable energy technologies. In particular, the European Institute of Innovation and Technology should give high priority to the research and development of renewable energy technologies.

◆ 2009/28/EC Recital 90

(98) The implementation of this Directive should reflect, where relevant, the provisions of the Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters, in particular as implemented through Directive 2003/4/EC of the European Parliament and of the Council of 28 January 2003 on public access to environmental information 23.

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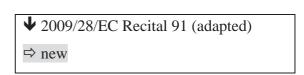
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Directive 2003/4/EC of the European Parliament and of the Council of 28 January 2003 on public access to environmental information (OJ L 41, 14.2.2003, p. 26).

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(99)In order to amend or supplement non-essential elements of the provisions of this Directive, the power to adopt acts in accordance with Article 290 of the Treaty on the Functioning of the European Union should be delegated to the Commission in respect of the list of feedstocks for the production of advanced biofuels, the contribution of which towards the fuel suppliers' obligation in transport is limited; the adaptation of the energy content of transport fuels to scientific and technical progress; the methodology to determine the share of biofuel resulting from biomass being processed with fossil fuels in a common process; the implementation of agreements on mutual recognition of guarantees of origin; the establishment of rules to monitor the functioning of the system of guarantees of origin; and the rules for calculating the greenhouse gas impact of biofuels, bioliquids and their fossil fuel comparators. It is of particular importance that the Commission carry out appropriate consultations during its preparatory work, including at expert level, and that those consultations be conducted in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 on Better Law-Making. In particular, to ensure equal participation in the preparation of delegated acts, the European Parliament and the Council receive all documents at the same time as Member States' experts, and their experts systematically have access to meetings of Commission expert groups dealing with the preparation of delegated acts.

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(100) The measures necessary for the implementation of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999

Regulation (EU) No 182/2011 of the European Parliament and of the Council

laying down the procedures for the exercise of implementing powers conferred on the Commission

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 ✓ 2009/28/EC Recital 92

 ✓ 2009/28/EC Recital 93

 ✓ 2009/28/EC Recital 95

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Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16 February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p.13).

OJ L 184, 17.7.1999, p. 23.



share of energy from renewable sources in the Community's ☒ Union's ☒ gross final consumption of energy and a 10 % share of energy from renewable sources in each Member State's transport energy consumption by 2020 ➡ 2030 ⇐ , cannot be sufficiently achieved by the Member States and ☒ but ☒ can therefore ☒ rather ☒ , by reason of the scale of the action, be better achieved at Community ☒ Union ☒ level, the Community ☒ Union ☒ may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty ☒ on European Union ☒ . In accordance with the principle of proportionality, as set out in that Article, this Directive does not go beyond what is necessary in order to achieve those objectives.



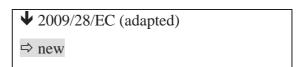
- (102) The obligation to transpose this Directive into national law should be confined to those provisions which represent a substantive amendment as compared to the earlier Directive.

 The obligation to transpose provisions which are unchanged arises under the earlier Directive.
- (103) In accordance with the Joint Political Declaration of Member States and the Commission on explanatory documents of 28 September 2011 ⇒ ²⁶ ←, Member States have undertaken to accompany, in justified cases, the notification of their transposition measures with one or more documents explaining the relationship between the components of a directive and the corresponding parts of national transposition instruments.

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OJ C 369, 17.12.2011, p. 14.

(104) This Directive should be without prejudice to the obligations of the Member States relating to the time-limit for the transposition into national law of the Directives set out in part B of Annex XI.



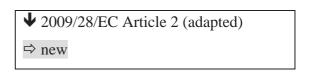
HAVE ADOPTED THIS DIRECTIVE:

Article 1

Subject-matter and scope

This Directive establishes a common framework for the promotion of energy from renewable sources. It sets \boxtimes a binding \boxtimes mandatory national \Rightarrow Union \Leftrightarrow targets for the overall share of energy from renewable sources in gross final consumption of energy \Rightarrow in 2030 \Leftrightarrow and for the share of energy from renewable sources in transport. It \boxtimes also \boxtimes lays down rules \boxtimes on \boxtimes relating to statistical transfers between Member States, joint projects \Rightarrow financial support to electricity produced from renewable sources, self-consumption of renewable electricity, and renewable energy use in the heating and cooling and transport sectors, regional cooperation \Leftrightarrow between Member States and with third countries, guarantees of origin, administrative procedures \bowtie and \boxtimes information and training, and access to the electricity grid for energy from renewable sources. It establishes sustainability \Rightarrow and greenhouse gas emissions saving \Leftrightarrow criteria for biofuels, and bioliquids \Rightarrow and biomass fuels \Leftrightarrow .

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Article 2

Definitions

For the purposes of this Directive, the definitions in Directive 2003/54/EC 2009/72/EC of the European Parliament and of the Council²⁷ apply.

The following definitions also apply:

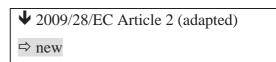
(a) 'energy from renewable sources' means energy from renewable non-fossil sources, namely wind, solar ⇒ (solar thermal and solar photovoltaic) and ⇔, **aerothermal**, geothermal**, ⇒ energy ⇔ **hydrothermal** and ⇒ , ambient **energy*[], tide, wave and other ⇔ ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases;

↑ new

(b) 'ambient energy []' means naturally occuring [] thermal energy at a useful temperature level which is extracted or captured by means of heat pumps that need electricity or other auxiliary energy to function for heating and cooling purposes, and [] can be stored in the ambient air or indoor air, beneath the surface of solid earth or in surface water. [];

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Directive 2009/72/EC of the European Parliament and of the Council of 13 July 2009 concerning common rules for the internal market in electricity and repealing Directive 2003/54/EC (OJ L 211, 14.8.2009, p. 55).



(b) 'aerothermal energy' means energy stored in the form of heat in the ambient air;

[] (b bis)'geothermal energy' means energy stored in the form of heat beneath the surface of solid earth;

- (d) 'hydrothermal energy' means energy stored in the form of heat in surface water;
- (ec) 'biomass' means the biodegradable fraction of products, waste and residues from biological origin from agriculture, €including vegetal and animal substances, forestry and related industries including fisheries and aquaculture, as well as the biodegradable fraction of ⇒ waste, including ⇔ industrial and municipal waste ⇒ of biological origin ⇔;
- (£d) 'gross final consumption of energy' means the energy commodities delivered for energy purposes to industry, transport, households, services including public services, agriculture, forestry and fisheries, including the consumption of electricity and heat by the energy branch for electricity and heat production and including losses of electricity and heat in distribution and transmission;
- (ge) 'district heating' or 'district cooling' means the distribution of thermal energy in the form of steam, hot water or chilled liquids, from a central source of production through a network to multiple buildings or sites, for the use of space or process heating or cooling;
- (\(\frac{1}{2}\)f) 'bioliquids' means liquid fuel for energy purposes other than for transport, including electricity and heating and cooling, produced from biomass;
- (ig) 'biofuels' means liquid or gaseous fuel for transport produced from biomass;
- (†h) 'guarantee of origin' means an electronic document which has the sole function of providing proof to a final customer that a given share or quantity of energy was produced from renewable sources as required by Article 3(6) of Directive 2003/54/EC;

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- (ki) 'support scheme' means any instrument, scheme or mechanism applied by a Member State or a group of Member States, that promotes the use of energy from renewable sources by reducing the cost of that energy, increasing the price at which it can be sold, or increasing, by means of a renewable energy obligation or otherwise, the volume of such energy purchased. This includes, but is not restricted to, investment aid, tax exemptions or reductions, tax refunds, renewable energy obligation support schemes including those using green certificates, and direct price support schemes including feed-in tariffs and sliding and fixed premium payments;
- (4j)'renewable energy obligation' means a national support scheme requiring energy producers to include a given proportion of energy from renewable sources in their production, requiring energy suppliers to include a given proportion of energy from renewable sources in their supply, or requiring energy consumers to include a given proportion of energy from renewable sources in their consumption. This includes schemes under which such requirements may be fulfilled by using green certificates;
- (mk) 'actual value' means the greenhouse gas emission saving for some or all of the steps of a specific biofuel production process calculated in accordance with the methodology laid down in part C of Annex V;
- (\pm l)'typical value' means an estimate of the representative greenhouse gas \boxtimes emissions and \boxtimes emission saving for a particular biofuel \Rightarrow , bioliquid or biomass fuel \Leftarrow production pathway \boxtimes , which is representative of the Union consumption \boxtimes ;

(⊕m)'default value' means a value derived from a typical value by the application of predetermined factors and that may, in circumstances specified in this Directive, be used in place of an actual value;

(pn) waste' shall be defined as in Article 3(1) of Directive 2008/98/EC of the European Parliament and of the Council sy ; substances that have been intentionally modified or contaminated to meet that definition are not covered by this definition;

($\frac{1}{40}$) 'starch-rich crops' means crops comprising mainly cereals (regardless of whether only the grains are used, or the whole plant, such as in the case of green maize, is used), tubers and root crops (such as potatoes, Jerusalem artichokes, sweet potatoes, cassava and yams), and corm crops (such as taro and cocoyam);

(#p)'ligno-cellulosic material' means material composed of lignin, cellulose and hemicellulose such as biomass sourced from forests, woody energy crops and forest-based industries' residues and wastes;

(sq)'non-food cellulosic material' means feedstocks mainly composed of cellulose and hemicellulose, and having a lower lignin content than ligno-cellulosic material; it includes food and feed crop residues (such as straw, stover, husks and shells), grassy energy crops with a low starch content (such as ryegrass, switchgrass, miscanthus, giant cane and cover crops before and after main crops), industrial residues (including from food and feed crops after vegetal oils, sugars, starches and protein have been extracted), and material from biowaste;

(tr)'processing residue' means a substance that is not the end product(s) that a production process directly seeks to produce; it is not a primary aim of the production process and the process has not been deliberately modified to produce it;

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Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3).

- (#s)'renewable liquid and gaseous transport fuels of non-biological origin' means liquid or gaseous fuels other than biofuels whose energy content comes from renewable energy sources other than biomass, and which are used in transport;
- (¥t) 'agricultural, aquaculture, fisheries and forestry residues' means residues that are directly generated by agriculture, aquaculture, fisheries and forestry; they do not include residues from related industries or processing;
- (\(\frac{\pmu}{u}\)) 'low indirect land-use change-risk biofuels and bioliquids' means biofuels and bioliquids, the feedstocks of which were produced within schemes which reduce the displacement of production for purposes other than for making biofuels and bioliquids and which were produced in accordance with the sustainability criteria for biofuels and bioliquids set out in Article \(\frac{17}{2}\) 26;.

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- (x) 'distribution system operator' means an operator as defined in Article 2(6) of Directive 2009/72/EC;
- (y) 'waste heat or cold' means heat or cold which is generated as by-product in industrial, tertiary sector or power generation installations, except where combined heat and power generation is used, and which would be dissipated unused in air or water without access to a district heating or cooling system;
- (z) 'repowering' means renewing power plants producing renewable energy, including the full or partial replacement of installations or operation systems and equipment, in order to replace capacity or to increase efficiency or capacity of the installation;

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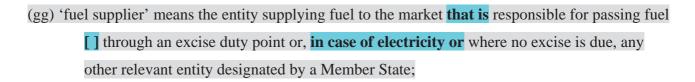
- (aa) 'renewable self-consumer' means an active customer as defined in Directive [MDI Directive] operating within confined boundaries who generates renewable electricity for it's own **needs**, [] and may store and sell **self-generated** renewable electricity [], provided that, for non-household renewable self-consumers, those activities do not constitute their primary commercial or professional activity;
- [(bb) 'renewable self-consumption' means the generation and consumption, and, where applicable, storage, of renewable electricity by renewable self-consumers;
- (cc) 'power purchase agreement' means a contract under which a legal person agrees to purchase renewable electricity directly from an energy generator;
- (dd) 'food and feed crops' means starch-rich crops, sugars and oil crops produced on agricultural land as a main crop excluding residues, waste or ligno-cellulosic material. **Intermediate** crops such as catch crops and cover crops are not considered main crops;
- (ee) 'advanced biofuels' means biofuels that are produced from feedstocks listed in part A of Annex IX:
- 'recycled carbon fuels' ²⁹ means liquid and gaseous fuels that are produced from (ff) processing gases and exhaust gases of non-renewable origin from industrial installations:

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²⁹ Note: the Presidency proposes to keep these type of fuels in the text as an option for Member States, and proposed to refer to them as 'recycled carbon fuels'. The methodology for the calculation of those greenhouse gas savings is to be determined via a delegated act under Article 25(6) and the GHG emissions savings level is set at [60%] in Article 25.



- (hh) 'agricultural biomass' means biomass produced from agriculture;
- (ii) 'forest biomass' means biomass produced from forestry;

[]

(kk) 'SME' means a micro, small or medium sized enterprise as defined in Commission Recommendation 2003/361/EC

30;

- (ll) 'forest regeneration' means the re-establishment of a forest stand by natural or artificial means following the removal of the previous stand by felling or as a result of natural causes, including fire or storm;
- (mm) 'forest holding' means one or more parcels of forest and other wooded land which constitute a single unit from the point of view of management or utilisation;
- (nn) 'biowaste' means biowaste as defined in Article 3(4) of Directive 2008/98/EC [];
- (00) 'residual energy mix' means the total annual energy mix for a Member State, excluding the share covered by the cancelled guarantees of origin;
- (pp) 'biomass fuels' means gaseous and solid fuels produced from biomass;

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Commission Recommendation of 6 May 2003 concerning the definition of micro, small and medium-sized enterprises (OJ L 124, 20.5.2003, p. 36).

- (qq) 'biogas' means gaseous fuels produced from biomass;
- (rr) 'opened tender' means a tender procedure for the installation of renewable energy plants organised by a Member State and opened for bids from projects located in one or several other Member States;
- (ss) 'joint tender' means a tender procedure for the installation of renewable energy plants jointly designed and organised by two or more Member States, that is open to projects located in all Member States involved;
- (tt) 'opened certificate scheme' means a certificate scheme implemented by a Member State, that is open to installations located in one or several other Member States;
- (uu) 'financial instruments' means financial instruments as defined in Regulation (EU, Euratom)

 No 966/2012 of the European Parliament and of the Council³¹.
- (vv) 'sourcing area' means the geographically defined area from which the forest biomass is sourced [], from which reliable and independent information is available and where conditions are sufficiently homogeneous to evaluate the risk of the sustainability and legality characteristics of the forest biomass.

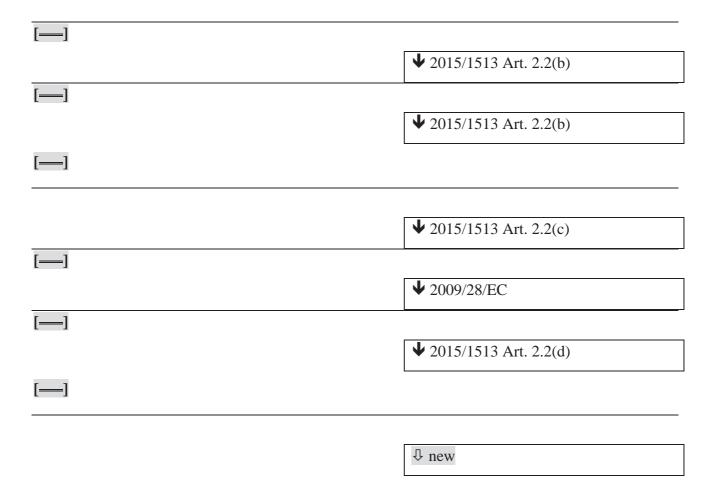
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Regulation (EU, Euratom) No 966/2012 of the European Parliament and of the Council of 25 October 2012 on the financial rules applicable to the general budget of the Union and repealing Council Regulation (EC, Euratom) No 1605/2002 (OJ L 298, 26.10.2012, p. 1).

- (ww) 'renewable energy community' means a legal entity which, according to applicable national law, is effectively controlled by shareholders or members who are natural persons, local authorities, including municipalities, or small and micro enterprises [] located in the proximity of the renewable energy projects owned and developed by that community. The primary purpose of an energy community is to provide environmental, economic or social community benefits for its members or the local areas where it operates rather than financial profits.
- (xx) 'reference value' means a value to which Member States may refer when considering what level of endeavour is appropriate in their national circumstances for the purposes of Article 23.

	◆ 2009/28/EC
[—]	_
	Ψ 2015/1513 Art. 2.2(a)
[—]	
	♥ 2009/28/EC
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	Ψ 2015/1513 Art. 2.2(b)
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	♥ 2009/28/EC
	→ ₁ 2015/1513 Art. 2.2(b)
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Article 3
Union binding overall target for 2030

- 1. Member States shall collectively ensure that the share of energy from renewable sources in the Union's gross final consumption of energy in 2030 is at least 27%.
- 2. Member States' respective contributions to this overall 2030 target shall be set and notified to the Commission as part of their Integrated National Energy and Climate Plans in accordance with Articles 3 to 5 and Articles 9 to 11 of Regulation [Governance].

- 3. From 1 January 2021 onwards, the share of energy from renewable sources in each Member State's gross final consumption of energy shall not be lower than that shown in the third column of the table in part A of Annex I. If a Member State does not maintain its baseline share as measured over a one-year period, the first and second sub-paragraphs of Article 27(4bis) of Regulation [governance] shall apply.
- 4. The Commission shall support the high ambition of Member States through an enabling framework comprising the enhanced use of Union funds, in particular financial instruments, especially [] for the following purposes:
- a) Reducing the cost of capital for renewable energy projects.
- b) The development of transmission and distribution grid infrastructure, intelligent networks, storage facilities and interconnections, where appropriate with a view of achieving a 15% target on 2030, to increase the technically and economically affordable level of renewables in the electricity system.
- c) Enhanced regional cooperation between Member States and between Member States and third countries, through joint projects, joint support schemes and the opening of support schemes for renewable electricity to generators located in other Member States.

4bis. The Commission shall support Member States who choose to contribute to the Union binding overall target using cooperation mechanisms by establishing a facilitative platform.

Article 4

Financial support for electricity from renewable sources

- 1. [] In order to reach the Union target set in Article 3(1), and Member State's respective contributions to this target set at a national level for the deployment of renewable energy, Member States may apply support schemes. Support schemes for electricity from renewable sources shall incentivise integration of electricity from renewable energy sources in the electricity market in a market-based and market-responsive way [], avoiding unnecessary distortions of electricity markets [].
- 2. Support for electricity from renewable sources shall be designed so as to integrate electricity from renewable sources in the electricity market and ensure that renewable energy producers are responding to market price signals and maximise their market revenues. To this end, in direct price support schemes support shall be granted in the form of a [] market premium, which could be, inter alia, sliding or fixed. Member States may consider, in accordance with [Electricity Directive] and [Electricity Regulation], developing specific conditions for supporting small-scale installations and demonstration projects.
- 3. Member States shall ensure that support for renewable electricity is granted in an open, transparent, competitive, non-discriminatory and cost-effective manner. Member States may consider developing specific conditions or providing exemptions from competitive bidding processes particularly for small-scale installations and demonstration projects.

Member States may also consider mechanisms to ensure the regional diversification of renewables depolyment particularly to ensure cost-efficient system integration.

3bis. Member States may consider limiting competition between technologies on the basis of one or several of the following objectives, where such objectives cannot be addressed in the design of the support: grid and system development objectives, the longer term potential of a particular technology, the objective to diversify the energy mix, the objective to avoid distortions on the raw material markets[], and system integration costs.

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5.	This article shall apply without prejudice to Articles 107 and 108 of the Treaty on	the
Func	oning of the European Union [].	

[]

Article 5

Opening of support schemes for renewable electricity

1. Member States shall have the right to decide, in accordance with Articles 7 to 13 of this Directive, to which extent they support energy from renewable sources which is produced in a different Member State. However, Member States [] may open support for electricity generated from renewable sources to generators located in other Member States under the conditions laid down in this Article.

[2-] Thus Member States [] may provide that support for [] a share of the newly-supported capacity, or of the budget allocated thereto, in each year [] is open to installations located in other Member States.

Member States [shall aim] are encouraged to consider for this share to be, in each year, at least 10% between 2021 and 2025 and at least 15% between 2026 and 2030, but may also deviate from these shares due to, inter alia, a lower level of electricity interconnectivity of a Member State in any given year. []

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2bis. Member States may ask for the proof of physical import. However, they shall not change, alter or otherwise impact cross-zonal schedules and capacity allocation due to generators participating in cross-border support schemes. Cross-border electricity transfers shall be determined solely by the outcome of capacity allocation pursuant to [Article 14 of the Electricity Market Regulation].

[]

- 3. [] If a Member State decides to open support to generators located in other Member States, those participating Member States shall agree on the principles of participating in the cross-border support schemes for renewable energy. Such agreements shall cover at least the principles of allocation of renewable electricity that is benefiting from crossborder support [].
- 4. The Commission shall assess by 2025 the **costs and** benefits on the [] deployment of renewable electricity in the Union of provisions set out in this Article. [].

Stability of financial support

Without prejudice to adaptations necessary to comply with Articles 107 and 108 of the Treaty on the Functioning of the European Union [], Member States shall ensure that the level of, and the conditions attached to, the support that has been granted to renewable energy projects are not revised in a way that [] restricts the rights conferred thereunder and undermines the economic viability of supported projects. This provision shall not affect dynamic elements or mechanisms in the support schemes themselves [, for example] that are foreseen to adapt support to market conditions, provided that such elements or mechanisms are established in the original support mechanisms.



Article 57

Calculation of the share of energy from renewable sources

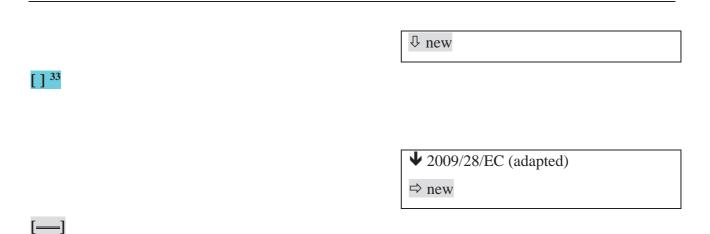
- 1. The gross final consumption of energy from renewable sources in each Member State shall be calculated as the sum of:
 - (a) gross final consumption of electricity from renewable energy sources;
 - (b) gross final consumption of energy from renewable sources for heating and cooling; and
 - (c) final consumption of energy from renewable sources in transport.

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Note: see text added to recital 18.

Gas, electricity and hydrogen from renewable energy sources shall be considered only once in point (a), (b), or (c) of the first subparagraph, for calculating the share of gross final consumption of energy from renewable sources.

Subject to the second subparagraph of Article $\frac{17}{26}$ (1), biofuels, $\frac{1}{20}$ and bioliquids \Rightarrow and biomass fuels \Leftrightarrow that do not fulfil the sustainability \Rightarrow and greenhouse gas emissions saving \Leftrightarrow criteria set out in Article $\frac{26}{17}$ (2) to $\frac{6}{10}$ (7) shall not be taken into account.



32. For the purposes of paragraph 1(a), gross final consumption of electricity from renewable energy sources shall be calculated as the quantity of electricity produced in a Member State from renewable energy sources, ⇒ including the production of electricity from renewable self-consumers and energy communities and ⇔ excluding the production of electricity in pumped storage units from water that has previously been pumped uphill.

In multi-fuel plants using renewable and conventional sources, only the part of electricity produced from renewable energy sources shall be taken into account. For the purposes of this calculation, the contribution of each energy source shall be calculated on the basis of its energy content.

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Note: this subparagraph has been moved to Article 25 on mainstreaming renewable energy in the transport sector.

The electricity generated by hydropower and wind power shall be accounted for in accordance with the normalisation rules set out in Annex II.

43. For the purposes of paragraph 1(b), the gross final consumption of energy from renewable sources for heating and cooling shall be calculated as the quantity of district heating and cooling produced in a Member State from renewable sources, plus the consumption of other energy from renewable sources in industry, households, services, agriculture, forestry and fisheries, for heating, cooling and processing purposes.

In multi-fuel plants using renewable and conventional sources, only the part of heating and cooling produced from renewable energy sources shall be taken into account. For the purposes of this calculation, the contribution of each energy source shall be calculated on the basis of its energy content.

Ambient Aerothermal, geothermal and hydrothermal and geothermal energy captured by heat pumps shall be taken into account for the purposes of paragraph 1(b) provided that the final energy output significantly exceeds the primary energy input required to drive the heat pumps. The quantity of heat or cold to be considered as energy from renewable sources for the purposes of this Directive shall be calculated in accordance with the methodology laid down in Annex VII.

Thermal energy generated by passive energy systems, under which lower energy consumption is achieved passively through building design or from heat generated by energy from non-renewable sources, shall not be taken into account for the purposes of paragraph 1(b).

The Commission is empowered to adopt delegated acts in accordance with Article 32 to establish a methodology for calculating the quantity of renewable energy used for heating and cooling and district heating and cooling and to revise Annex VII on calculation of energy from heat pumps.

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4. For the purposes of paragraph 1(c), the gross final consumption of energy from renewable sources in transport shall be calculated as the sum of all biofuels, biomass fuels and renewable liquid and gaseous transport fuels of non-biological origin consumed in the transport sector. However, renewable liquid and gaseous transport fuels of non-biological origin that are produced from renewable electricity shall only be considered to be part of the calculation pursuant to paragraph 1(a) when calculating the quantity of electricity produced in a Member State from renewable energy sources.



4 2015/1513 Art. 2.3 (adapted)



♦ 2009/28/EC (adapted)

67. The share of energy from renewable sources shall be calculated as the gross final consumption of energy from renewable sources divided by the gross final consumption of energy from all energy sources, expressed as a percentage.

For the purposes of the first subparagraph, the sum referred to in paragraph 1 shall be adjusted in accordance with Articles 6, 8, 10 and 11 5, 8, 10, 12 and 13.

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Note: This removed text relating to the transport sector has been now incorporated into Article 25.

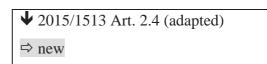
In calculating a Member State's gross final energy consumption for the purpose of measuring its compliance with the targets and indicative trajectory laid down in this Directive, the amount of energy consumed in aviation shall, as a proportion of that Member State's gross final consumption of energy, be considered to be no more than 6,18 %. For Cyprus and Malta the amount of energy consumed in aviation shall, as a proportion of those Member States' gross final consumption of energy, be considered to be no more than 4,12 %.

₹8. The methodology and definitions used in the calculation of the share of energy from renewable sources shall be those of Regulation (EC) No 1099/2008 of the European Parliament and of the Council of 22 October 2008 on energy statistics 35.

Member States shall ensure coherence of statistical information used in calculating those sectoral and overall shares and statistical information reported to the Commission under Regulation (EC) No 1099/2008.

Article €8

European Union Renewable Development Platform and statistical transfers between Member States



1. Member States may agree on and may make arrangements for the statistical transfer of a specified amount of energy from renewable sources from one Member State to another Member State. The transferred quantity shall be:

OJ L 304, 14.11.2008, p. 1.

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- (a) deducted from the amount of energy from renewable sources that is taken into account in measuring \Rightarrow the renewable energy share of \Leftrightarrow compliance by the Member State making the transfer \Rightarrow for the purposes of this Directive \Leftrightarrow with the requirements of Article 3(1), (2) and (4); and
- (b) added to the amount of energy from renewable sources that is taken into account in measuring empliance by another \Rightarrow the renewable energy share of \Leftarrow Member State accepting the transfer with the requirements of Article 3(1), (2) and (4) \Rightarrow for the purposes of this Directive \Leftarrow .

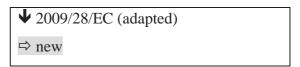
1bis. In order to facilitate the achievement of the Union binding target, Member States' respective contributions to this target as set out in Article 3 of this Directive and statistical transfers in accordance with paragraph 1 of this Article, the Commission shall establish a European Union Renewable Development Platform ("ERDP"). Member States may submit to this platform on a voluntary basis yearly data on their contributions to the EU binding target for 2030 or any benchmark set for monitoring the progress in Regulation [Governance], including the expected shortfall or overachievement thereof, and an indication of price on which they would accept to transfer any excess production of energy from renewable sources from or to another Member State. The actual price of these transfers will be set on a case by case basis based on the ERDP demand and offer matching mechanism.

Iter. The Commission shall ensure that the ERDP is able to match the demand and offer for amounts of energy from renewable energy sources that is taken into account in measuring the renewable energy share of Member State based on prices or any other additional criteria specified by the Member State that the energy is transferred to.

The Commission is empowered to adopt delegated acts in accordance with Article 32 for the establishment of the ERDP and setting the conditions of finalising transactions as referred to in paragraph 3 of this Article.

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2. The arrangements referred to in paragraph 1 and 1bis of this Article in respect of Article 3(1), (2) and (4) may have a duration of one or more years. [] Such arrangements between Member States shall be notified to the Commission or finalised on the ERDP not later than three ⇒ 12 ← months after the end of each year in which they have effect. The information sent to the Commission shall include the quantity and price of the energy involved. For transfers finalised on the ERDP, the parties involved in any particular transfer and any other parameters of those transactions shall be disclosed only when Member States involved request to do so.



3. Transfers shall become effective **after clearing conditions are met on the ERDP or []** after all Member States involved in the transfer have notified the transfer to the Commission.

Article ₹9

Joint projects between Member States

- 1. Two or more Member States may cooperate on all types of joint projects relating to the production of electricity, heating or cooling from renewable energy sources. That cooperation may involve private operators.
- 2. Member States shall notify the Commission of the proportion or amount of electricity, heating or cooling from renewable energy sources produced by any joint project in their territory, that became operational after 25 June 2009, or by the increased capacity of an installation that was refurbished after that date, which is to be regarded as counting towards the national overall target ⇒ renewable energy share ⇔ of another Member State for the purposes of measuring compliance with the requirements of this Directive.

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- 3. The notification referred to in paragraph 2 shall:
 - (a) describe the proposed installation or identify the refurbished installation;
 - (b) specify the proportion or amount of electricity or heating or cooling produced from the installation which is to be regarded as counting towards the national overall target

 ⇒ renewable energy share ← of another Member State;
 - (c) identify the Member State in whose favour the notification is being made; and
 - (d) specify the period, in whole calendar years, during which the electricity or heating or cooling produced by the installation from renewable energy sources is to be regarded as counting towards the national overall target ⇒ renewable energy share ⇔ of the other Member State.
- 4. The period specified under paragraph 3(d) shall not extend beyond 2020. The duration of a joint project may extend beyond $2020 \Rightarrow 2030 \Leftarrow$.
- 5. A notification made under this Article shall not be varied or withdrawn without the joint agreement of the Member State making the notification and the Member State identified in accordance with paragraph 3(c).

Article \\$10

Effects of joint projects between Member States

- 1. Within three months of the end of each year falling within the period specified under Article ₹9 (3)(d), the Member State that made the notification under Article ₹9 shall issue a letter of notification stating:
 - (a) the total amount of electricity or heating or cooling produced during the year from renewable energy sources by the installation which was the subject of the notification under Article $\frac{7}{2}$ 9; and

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- (b) the amount of electricity or heating or cooling produced during the year from renewable energy sources by that installation which is to count towards the national overall target ⇒ renewable energy share ⇔ of another Member State in accordance with the terms of the notification.
- 2. The notifying Member State shall send the letter of notification to the Member State in whose favour the notification was made and to the Commission.
- 3. For the purposes of measuring target compliance with the requirements of this Directive concerning national overall targets, the amount of electricity or heating or cooling from renewable energy sources notified in accordance with paragraph 1(b) shall be:
 - (a) deducted from the amount of electricity or heating or cooling from renewable energy sources that is taken into account, in measuring compliance by the renewable energy share of ← the Member State issuing the letter of notification under paragraph 1; and
 - (b) added to the amount of electricity or heating or cooling from renewable energy sources that is taken into account, in measuring compliance by \Rightarrow the renewable energy share of \Leftrightarrow compliance by the Member State receiving the letter of notification in accordance with paragraph 2.

Article 9 11

Joint projects between Member States and third countries

1. One or more Member States may cooperate with one or more third countries on all types of joint projects regarding the production of electricity from renewable energy sources. Such cooperation may involve private operators.

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- 2. Electricity from renewable energy sources produced in a third country shall be taken into account only for the purposes of measuring compliance with the requirements of this Directive concerning national overall targets

 → Member States' renewable energy shares

 if the following conditions are met:
 - (a) the electricity is consumed in the Community \boxtimes Union. This \boxtimes $\frac{1}{2}$ requirement that is deemed to be met where:
 - (i) an equivalent amount of electricity to the electricity accounted for has been firmly nominated to the allocated interconnection capacity by all responsible transmission system operators in the country of origin, the country of destination and, if relevant, each third country of transit;
 - (ii) an equivalent amount of electricity to the electricity accounted for has been firmly registered in the schedule of balance by the responsible transmission system operator on the €ommunity ☒ Union ☒ side of an interconnector; and
 - (iii) the nominated capacity and the production of electricity from renewable energy sources by the installation referred to in paragraph 2(b) refer to the same period of time;
 - (b) the electricity is produced by a newly constructed installation that became operational after 25 June 2009 or by the increased capacity of an installation that was refurbished after that date, under a joint project as referred to in paragraph 1; and
 - (c) the amount of electricity produced and exported has not received support from a support scheme of a third country other than investment aid granted to the installation.
- 3. Member States may apply to the Commission, for the purposes of Article ≨7, for account to be taken of electricity from renewable energy sources produced and consumed in a third country, in the context of the construction of an interconnector with a very long lead-time between a Member State and a third country if the following conditions are met:

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- (a) construction of the interconnector started by 31 December \Rightarrow 2026 \Leftarrow $\frac{2016}{5}$;
- (b) it is not possible for the interconnector to become operational by 31 December $\Rightarrow 2030 \Leftarrow \frac{2020}{300}$;
- (c) it is possible for the interconnector to become operational by 31 December \Rightarrow 2032 \Leftarrow 2022;
- (d) after it becomes operational, the interconnector will be used for the export to the \bigcirc Union \bigcirc , in accordance with paragraph 2, of electricity generated from renewable energy sources;
- (e) the application relates to a joint project that fulfils the criteria in points (b) and (c) of paragraph 2 and that will use the interconnector after it becomes operational, and to a quantity of electricity that is no greater than the quantity that will be exported to the Community 🖾 Union 🖾 after the interconnector becomes operational.
- 4. The proportion or amount of electricity produced by any installation in the territory of a third country, which is to be regarded as counting towards the national overall target ⇒ energy share ⇔ of one or more Member States for the purposes of ⇒ this Directive ⇔ measuring compliance with Article 3, shall be notified to the Commission. When more than one Member State is concerned, the distribution between Member States of this proportion or amount shall be notified to the Commission. This proportion or amount shall not exceed the proportion or amount actually exported to, and consumed in, the Community ⋈ Union ⋈ , corresponding to the amount referred to in paragraph 2(a)(i) and (ii) of this Article and meeting the conditions as set out in its paragraph (2)(a). The notification shall be made by each Member State towards whose overall national target the proportion or amount of electricity is to count.

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- 5. The notification referred to in paragraph 4 shall:
 - (a) describe the proposed installation or identify the refurbished installation;
 - (b) specify the proportion or amount of electricity produced from the installation which is to be regarded as counting towards the national target ⇒ renewable energy share ⇔ of a Member State as well as, subject to confidentiality requirements, the corresponding financial arrangements;
 - (c) specify the period, in whole calendar years, during which the electricity is to be regarded as counting towards the national overall target ⇒ renewable energy share ⇔ of the Member State; and
 - (d) include a written acknowledgement of points (b) and (c) by the third country in whose territory the installation is to become operational and the proportion or amount of electricity produced by the installation which will be used domestically by that third country.
- 6. The period specified under paragraph 5(c) shall not extend beyond 2020. The duration of a joint project may extend beyond $2020 \Rightarrow 2030 \Leftarrow$.
- 7. A notification made under this Article may not be varied or withdrawn without the joint agreement of the Member State making the notification and the third country that has acknowledged the joint project in accordance with paragraph 5(d).
- 8. Member States and the Community Directive between Member States.

 Union Shall encourage the relevant bodies of the Energy Community Treaty to take, in conformity with the Energy Community Treaty, the measures which are necessary so that the Contracting Parties to that Treaty can apply the provisions on cooperation laid down in this Directive between Member States.

Article 1012

Effects of joint projects between Member States and third countries

- 1. Within \Rightarrow 12 \Leftarrow three months of the end of each year falling within the period specified under Article \Rightarrow 11 (5)(c), the Member State having made the notification under Article \Rightarrow 11 shall issue a letter of notification stating:
 - (a) the total amount of electricity produced during that year from renewable energy sources by the installation which was the subject of the notification under Article 9 11;
 - (b) the amount of electricity produced during the year from renewable energy sources by that installation which is to count towards its national overall $\frac{\text{target}}{\text{target}}$ \Rightarrow renewable energy share \Leftarrow in accordance with the terms of the notification under Article $\frac{9}{2}$ 11; and
 - (c) proof of compliance with the conditions set out in Article 9 11 (2).
- 2. The Member State shall send the letter of notification to the third country which has acknowledged the project in accordance with Article $\frac{9}{2}$ 11 (5)(d) and to the Commission.
- 3. For the purposes of $\frac{\text{measuring target compliance with the requirements of this Directive}}{\text{concerning}} \Rightarrow \text{calculating the} \Leftrightarrow \text{national overall} \Rightarrow \text{renewable energy shares under this Directive} \Leftrightarrow \frac{\text{targets}}{\text{targets}}$, the amount of electricity produced from renewable energy sources notified in accordance with paragraph 1(b) shall be added to the amount of energy from renewable sources that is taken into account, in measuring \Rightarrow the renewable energy shares of \Leftrightarrow $\frac{\text{compliance by}}{\text{compliance by}}$ the Member State issuing the letter of notification.

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Article #13

Joint support schemes

- 1. Without prejudice to the obligations of Member States under Article

 5, two or more Member States may decide, on a voluntary basis, to join or partly coordinate their national support schemes. In such cases, a certain amount of energy from renewable sources produced in the territory of one participating Member State may count towards the national overall target ⇒ renewable energy share ⇔ of another participating Member State if the Member States concerned:
 - (a) make a statistical transfer of specified amounts of energy from renewable sources from one Member State to another Member State in accordance with Article $\stackrel{\leftarrow}{\bullet}$ 8; or
 - (b) set up a distribution rule agreed by participating Member States that allocates amounts of energy from renewable sources between the participating Member States. Such a rule shall be notified to the Commission no later than three months after the end of the first year in which it takes effect.
- 2. Within three months of the end of each year each Member State having made a notification under paragraph 1(b) shall issue a letter of notification stating the total amount of electricity or heating or cooling from renewable energy sources produced during the year which is to be the subject of the distribution rule.
- 3. For the purposes of measuring compliance with the requirements of this Directive concerning

 ⇒ calculating the ⇔ national overall ⇒ renewable energy shares under this Directive ⇔ targets, the amount of electricity or heating or cooling from renewable energy sources notified in accordance with paragraph 2 shall be reallocated between the concerned Member States in accordance with the notified distribution rule.

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Capacity increases

For the purpose of Article \neq 9 (2) and Article \neq 11 (2)(b), units of energy from renewable sources imputable to an increase in the capacity of an installation shall be treated as if they were produced by a separate installation becoming operational at the moment at which the increase of capacity occurred.

♦ 2009/28/EC (adapted)

Article 1315

Administrative procedures, regulations and codes

1. Member States shall ensure that any national rules concerning the authorisation, certification and licensing procedures that are applied to plants and associated transmission and distribution network infrastructures for the production of electricity, heating or cooling from renewable energy sources, and to the process of transformation of biomass into biofuels or other energy products, are proportionate and necessary.

Member States shall, in particular, take the appropriate steps to ensure that:



- (a) (e) administrative procedures are streamlined and expedited at the appropriate administrative level;
- (b) (d) rules governing authorisation, certification and licensing are objective, transparent, proportionate, do not discriminate between applicants and take fully into account the particularities of individual renewable energy technologies;

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- (c) (e) administrative charges paid by consumers, planners, architects, builders and equipment and system installers and suppliers are transparent and cost-related; and
- (d) (f) simplified and less burdensome authorisation procedures, including through simple notification if allowed by the applicable regulatory framework, are established for smaller projects and for decentralised devices for producing energy from renewable sources, where appropriate.
- 2. Member States shall clearly define any technical specifications which must be met by renewable energy equipment and systems in order to benefit from support schemes. Where European standards exist, including eco-labels, energy labels and other technical reference systems established by the European standardisation bodies, such technical specifications shall be expressed in terms of those standards. Such technical specifications shall not prescribe where the equipment and systems are to be certified and should not impede the operation of the internal market.

↓ new

3. Member States shall ensure that investors have sufficient predictability of the planned support for energy from renewable sources. To this aim, Member States shall define and publish a [] schedule **foreseeing the** [] expected allocation for support, covering at least the following three years and including for each scheme the indicative timing **and** [] capacity, the **expected** budget [] as well as [] **principles for the** consultation of stakeholders on the design of the support.

For market based support and tax schemes where no capacity or budget is allocated Member States should report on the main parameters for the support.

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43. Member States shall recommend to all actors, in particular local and regional administrative bodies to ensure equipment and systems are installed for the use of electricity, heating and cooling from renewable energy sources and for district heating and cooling ⇒ ensure that their competent authorities at national, regional and local level include provisions for the integration and deployment of renewable energy and the use of unavoidable waste heat or cold ⇔ when planning, designing, building and renovating ⇒ urban infrastructure, ⇔ industrial or residential areas ⇒ and energy infrastructure, including electricity, district heating and cooling, natural gas and alternative fuel networks ⇔. Member States shall, in particular, encourage local and regional administrative bodies to include heating and cooling from renewable energy sources in the planning of city infrastructure, where appropriate.

54. Member States shall introduce in their building regulations and codes appropriate measures in order to increase the share of all kinds of energy from renewable sources in the building sector.

In establishing such measures or in their regional support schemes, Member States may take into account national measures relating to substantial increases in energy efficiency and relating to cogeneration and to passive, low or zero-energy buildings.

By 31 December 2014, Member States shall, in their building regulations and codes or by other means with equivalent effect, where appropriate, require the use of minimum levels of energy from renewable sources in new buildings and in existing buildings that are subject to major renovation in so far as this is technically, functionally and economically feasible and does not affect negatively indoor air []. Improve Member States shall permit those minimum levels to be fulfilled, inter alia, through efficient district heating and cooling [and other energy infrastructure] through district heating and cooling produced using a significant proportion of renewable energy sources.

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³⁶ Note: This is a non-exhaustive list and

The requirements of the first subparagraph shall apply to the armed forces, only to the extent that its application does not cause any conflict with the nature and primary aim of the activities of the armed forces and with the exception of material used exclusively for military purposes.

- 65. Member States shall ensure that new public buildings, and existing public buildings that are subject to major renovation, at national, regional and local level fulfil an exemplary role in the context of this Directive from 1 January 2012 onwards. Member States may, inter alia, allow that obligation to be fulfilled by complying with standards for zero energy housing, or by providing that the roofs of public or mixed private-public buildings are used by third parties for installations that produce energy from renewable sources.
- 7€. With respect to their building regulations and codes, Member States shall promote the use of renewable energy heating and cooling systems and equipment that achieve a significant reduction of energy consumption. Member States shall use energy or eco-labels or other appropriate certificates or standards developed at national or Community ☑ Union ☑ level, where these exist, as the basis for encouraging such systems and equipment.

[—]

• new

- 8. Member States shall carry out an assessment of their potential of renewable energy sources and of the use of waste heat and cold for heating and cooling. That assessment shall be included in the second comprehensive assessment required pursuant to Article 14(1) of Directive 2012/27/EU for the first time by 31 December 2020 and in the updates of the comprehensive assessments thereafter.
- 9. Member States shall remove administrative barriers to corporate long-term power purchase agreements to finance renewables and facilitate their uptake.

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Organisation and duration of the permit granting process

1. By 1 January 2021 Member States shall set up or designate one or more [] contact points []
that, on request by the applicant, shall provide guidance throughout [] the entire
administrative permit application and granting process []. [For each application [],] An
applicant shall only have to contact one contact point for the entire administrative process.
The permit granting process shall cover [] relevant [] administrative permits to build and
operate plants and assets necessary for its connection to the grid [associated transmission and
distribution network infrastructures for the production of energy from renewable energy
sources as well as repowering applications. The permit granting process shall comprise all
procedures from the acknowledgment of the receipt of the application to transmitting the
outcome of the procedure as referred to in paragraph 2 of this Article.

2. The contact point shall guide the applicant through the application process in a transparent manner, provide the applicant with all necessary information [] [and coordinate] and involve, where appropriate, other administrative authorities []. [At the end of the process, the contact point shall transmit the outcome of the procedure which may include one or several decisions from the relevant authorities.

3. The [] contact point [] shall **make available** [] a manual of procedures for renewable **energy production** project developers, addressing distinctly also [] small scale projects and renewable self-consumers projects.

- 4. The permit granting process referred to in paragraph 1 shall not exceed a period of three years []. However, the period of three years may be extended if the applicant has not provided all of the required information to enable the relevant authority to assess the application and may also be extended with the mutual agreement of the relevant consenting authority and the applicant. This period is without prejudice to judicial appeals, [and] remedies and other proceedings before a court or tribunal and may be extended at most by the duration of [the judicial appeals and remedies] such procedures
- 5. Without prejudice to [] applicable environmental obligations, as well as obligations concerning planning and safety of buildings, Member States shall facilitate the repowering of existing renewable energy plants by, inter alia, ensuring a simplified and swift permit granting process, with timeframes of [] three years. [] The timeframe may be extended with the mutual agreement of the relevant consenting authority and the applicant.

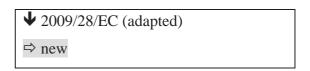
Simple notification procedures for grid connection

1. [] Member States shall establish a simple notification procedure whereby installations or aggregated production units of renewable self-consumers and demonstration projects with an electrical capacity of equal or less than [] 10.8 kW for a three phase connection (3.6 kW per phase) shall be [] connected to the grid following a notification to the distribution system operator, unless the safety or technical requirements of the grid are not met.

The distribution system operator may decide to reject or propose an alternative grid [the] connection point on grounds of safety concerns or technical incompatibility of the system components within one month following the notification. In case of a positive decision by the distribution system operator, or in the absence of a decision by the distribution system operator within one month following the notification, the installation or aggregated production unit may be connected, unless the connection fees or charges, if any, have not been paid.

Member States may allow simple notification procedures for installations or aggregated production units with a higher electrical capacity than set in paragraph 1, provided that grid stability, reliability and safety is maintained.





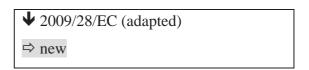
Article 1418

Information and training

1. Member States shall ensure that information on support measures is made available to all relevant actors, such as consumers, builders, installers, architects, and suppliers of heating, cooling and electricity equipment and systems and of vehicles compatible with the use of energy from renewable sources.

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- 2. Member States shall ensure that information on the net benefits, cost and energy efficiency of equipment and systems for the use of heating, cooling and electricity from renewable energy sources is made available either by the supplier of the equipment or system or by the national competent authorities.
- 3. Member States shall ensure that certification schemes or equivalent qualification schemes become or are available by 31 December 2012 for installers of small-scale biomass boilers and stoves, solar photovoltaic and solar thermal systems, shallow geothermal systems and heat pumps. Those schemes may take into account existing schemes and structures as appropriate, and shall be based on the criteria laid down in Annex IV. Each Member State shall recognise certification awarded by other Member States in accordance with those criteria.
- 4. Member States shall make available to the public information on certification schemes or equivalent qualification schemes as referred to in paragraph 3. Member States may also make available the list of installers who are qualified or certified in accordance with the provisions referred to in paragraph 3.
- 5. Member States shall ensure that guidance is made available to all relevant actors, notably for planners and architects so that they are able properly to consider the optimal combination of renewable energy sources, of high-efficiency technologies and of district heating and cooling when planning, designing, building and renovating industrial, ⇒ commercial ⇔ or residential areas.
- 6. Member States, with the participation of local and regional authorities, shall develop suitable information, awareness-raising, guidance or training programmes in order to inform citizens of the benefits and practicalities of developing and using energy from renewable sources.



Guarantees of origin of electricity, heating and cooling produced from renewable energy sources

- 1. For the purposes of proving to final customers the share or quantity of energy from renewable sources in an energy supplier's energy mix \Rightarrow and in the energy supplied to consumers under contracts marketed with reference to the consumption of energy from renewable sources \Leftrightarrow in accordance with Article 3(6) of Directive 2003/54/EC, Member States shall ensure that the origin of electricity \boxtimes [] electricity and gas \boxtimes produced from renewable energy sources can be guaranteed as such within the meaning of this Directive, in accordance with objective, transparent and non-discriminatory criteria.

Member States shall ensure that the same unit of energy from renewable sources is taken into account only once.

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Member States may provide ⇒ shall ensure ⇔ that [] when support be granted ⇒ guarantees of origin are issued ⇔ to a producer when that producer receives ⇒ financial support from a support scheme ⇔ a guarantee of origin for the same production of energy from renewable sources, the market value of the guarantee of origin is appropriately taken into account in the relevant support scheme. To that end, Member States may, inter alia, decide [] to issue a guarantee of origin to the producer and cancel it immediately ⇒ or to issue such guarantees of origin and transfer them to the market by auctioning them. The revenues raised as a result of the auctioning shall be used to offset the costs of renewables support. ⇔

The guarantee of origin shall have no function in terms of a Member State's compliance with Article 3. Transfers of guarantees of origin, separately or together with the physical transfer of energy, shall have no effect on the decision of Member States to use statistical transfers, joint projects or joint support schemes for target compliance or on the calculation of the gross final consumption of energy from renewable sources in accordance with Article $\frac{5}{2}$ 7.

3. Any use of a guarantee of origin shall take place within 12 months of production of the corresponding energy unit. A guarantee of origin shall be cancelled once it has been used.

↓ new

[3. For the purposes of paragraph 1, guarantees of origin shall be valid **for** [] **twelve months after the production of the relevant energy unit** []. Member States shall ensure that all guarantees of origin [] that have not been cancelled shall expire. Expired guarantees of origin shall be included by Member States in the calculation of the residual energy mix.

4. For the purposes of disclosure referred to in paragraphs 8 and 13, Member States shall ensure that guarantees of origin are cancelled by energy companies within the period of validity [].]³⁷

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Note: The Presidency is seeking better wording to reflect the intention here which is to improve the coherence on the market of guarantees of origin by reducing the range of "best before" on guarantees of origins ranging now from 3 to 17 months.



- 45. Member States or designated competent bodies shall supervise the issuance, transfer and cancellation of guarantees of origin. The designated competent bodies shall have non-overlapping geographical responsibilities, and be independent of production, trade and supply activities.
- **5**6. Member States or the designated competent bodies shall put in place appropriate mechanisms to ensure that guarantees of origin shall be issued, transferred and cancelled electronically and are accurate, reliable and fraud-resistant. [➡—♦]
- €7. A guarantee of origin shall specify at least:
 - (a) the energy source from which the energy was produced and the start and end dates of production;
 - (b) whether it relates to:
 - (i) electricity; or

□ new

(ii) gas, or

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↓ 2009/28/EC (adapted)

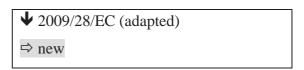
(#iii) heating or cooling;

- (c) the identity, location, type and capacity of the installation where the energy was produced;
- (e) the date on which the installation became operational; and
- (f) the date and country of issue and a unique identification number.

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Simplified information may be specified on guarantees of origin from small scale installations of less than 50 kW.

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87. Where an electricity supplier is required to prove the share or quantity of energy from renewable sources in its energy mix for the purposes of Article 3(69) of Directive 2003/54/EC2009/72/EC, it may \Rightarrow [] may \Leftrightarrow do so by using its guarantees of origin. Where Member States have arranged to have guarantees of origin for other types of energy, suppliers shall always use for disclosure the same type of guarantees of origin as the energy supplied. \Rightarrow Likewise, guarantees of origin created pursuant to Article 14(10) of Directive 2012/27/EC [] may be used to substantiate any requirement to prove the quantity of electricity produced from high-efficiency cogeneration. For the purposes of paragraph 2, where electricity is generated from high efficiency cogeneration using renewable sources only one guarantee of origin may be issued specifying both characteristics. [] \Leftrightarrow



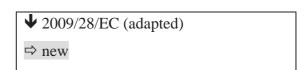
9. Member States shall recognise guarantees of origin issued by other Member States in accordance with this Directive exclusively as proof of the elements referred to in paragraph 1 and paragraph €7 (a) to (f). A Member State may refuse to recognise a guarantee of origin only when it has well-founded doubts about its accuracy, reliability or veracity. The Member State shall notify the Commission of such a refusal and its justification.

10. If the Commission finds that a refusal to recognise a guarantee of origin is unfounded, the Commission may adopt a decision requiring the Member State in question to recognise it.

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11. Member States shall not recognise guarantees of origins issued by a third country except where the Commission has signed an agreement with that third country on mutual recognition of guarantees of origin issued in the Union and compatible guarantees of origin systems established in that country, and only where there is direct import or export of energy. The Commission is empowered to adopt [delegated] implementing acts in accordance with Article 32 to enforce these agreements.



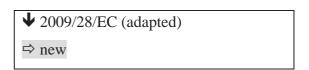
 $\frac{11}{12}$. A Member State may introduce, in conformity with $\frac{11}{12}$. Union $\frac{11}{12}$ Union



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[14. The Commission is empowered to adopt delegated acts in accordance with Article 32 establishing the rules to monitor the functioning of the system set out in this Article.]

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Article 1620

Access to and operation of the grids

[—]

91. Where relevant, Member States shall assess the need to extend existing gas network infrastructure to facilitate the integration of gas from renewable energy sources.

102. Where relevant, Member States shall require transmission system operators and distribution system operators in their territory to publish technical rules in line with Article 6 of Directive 2003/55/EC of the European Parliament and of the Council of 26 June 2003 concerning the common rules for the internal market in natural gas³⁸, in particular regarding network connection rules that include gas quality, gas odoration and gas pressure requirements. Member States shall also require transmission and distribution system operators to publish the connection tariffs to connect renewable gas sources based on transparent and non-discriminatory criteria.

build new infrastructure for district heating and cooling produced from renewable energy sources in order to achieve the 2020 national target referred to in Article 3(1). Subject to that ⊠ their ⊠ assessment, ⇒ included in the integrated national energy and climate plans in accordance with Annex I of Regulation [Governance], on the necessity to build new infrastructure for district heating and cooling produced from renewable energy sources in order to achieve the Union target referred to in Article 3(1) of this Directive, ⇔ Member States shall, where relevant, take steps with a view to developing a district heating infrastructure to accommodate the development of heating and cooling production from large biomass, solar and [] ambient energy facilities and waste heat or cold.

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Directive 2003/55/EC of the European Parliament and of the Council of 26 June 2003 concerning common rules for the internal market in natural gas and repealing Directive 98/30/EC (OJ L 176, 15.7.2003, p. 57).

Renewable self-consumers

- 1. Member States shall ensure that renewable self-consumers []:
- (a) are entitled to: [earry out generation of] generate renewable energy, including for their own consumption []; store and sell, including through power purchase agreements, aggregators and electricity suppliers, their excess production of renewable electricity without being subject to disproportionate procedures and disproportionate non-taxation charges [that are not cost-reflective, ensuring, however, that they are appropriately charged as final customers]³⁹;
- (b) maintain their rights and obligations as consumers;
- (c) are not considered as energy suppliers according to Union or national legislation in relation to the [] renewable electricity they have produced and consumed themselves []; and
- (d) are [] able to be remunerated [] appropriately for the self-generated renewable electricity they feed into the grid, [] reflecting[] [at least] the market value of the electricity fed in and the relevant support schemes in place.



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Note: see added text in recital 53 on proportionality of charges and the proposal for Electricity Regulation Art. 16 about network tariffs (no changes).

- 2. Member States shall ensure that renewable self-consumers living in the same multi-apartment block, or located in the same commercial, or shared services, site or closed distribution system, are, without prejudice to applicable grid costs and other relevant charges, levies and taxes applicable for final consumers, allowed to arrange sharing of renewable energy that is produced on their site between themselves []. [] Member States may have different governing provisions for individual and jointly acting renewable self-consumers in their national legislation.
- 3. The renewable self-consumer's installation may be managed by a third party for installation, operation, including metering, and maintenance.

Renewable energy communities

1. Member States shall provide an enabling regulatory framework for renewable energy communities ensuring that:

- []
- (a) renewable energy communities are entitled to generate, consume, store and sell renewable energy;
- (b) their shareholders or members are natural persons, local authorities, including municipalities, or SMEs [];
- (c) [joining] participation in a renewable energy community is voluntary;
- (d) their shareholders or members are allowed to leave a renewable energy community;
- (e) renewable energy communities that supply energy, provide aggregation or other commercial [electricity] energy services [] are subject to the provisions relevant for such activities;

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- (f) renewable energy communities are entitled to arrange sharing of renewable energy within the community that is produced by the production units owned by the community, subject to the provisions of this article and retaining community members' rights and obligations as consumers [];
- (g) the relevant distribution system operator cooperates with renewable energy communities to facilitate energy transfers within renewable energy communities, which shall not impact the obligations of renewable energy communities or their members may have as balance responsible parties and in particular their financial responsibility for the imbalances they cause in the system;
- (h) renewable energy communities are subject to fair, proportionate and transparent procedures, including registration and licensing, and cost reflective network charges, as well as relevant levies and taxes;
- (i) renewable energy communities are allowed to access all [organised] energy markets either directly or through aggregation in a non-discriminatory manner;
- (j) renewable energy communities [] are subject to a non-discriminatory treatment with regard to their activities, rights and obligations as final customers, generators, suppliers, distribution system operators, or as other market participants;
- 2. Member States may provide in the enabling regulatory framework referred to in paragraph 1 that renewable energy communities are open to cross-border participation.
- 3. Without prejudice to State aid rules, Member States shall take into account the specificities of renewable energy communities when designing support schemes, in order to allow them to compete for support on an equal footing with other producers.

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Mainstreaming renewable energy in the heating and cooling installations

1. In order to facilitate the penetration of renewable energy in the heating and cooling sector, each Member State shall endeavour to increase the share of renewable energy supplied for heating and cooling [] every year starting from the level achieved in 2020, the indicative reference value for the yearly increase shall be 1 percentage point (pp), expressed in terms of national share of final energy consumption and calculated according to the methodology set out in Article 7.

Member States may <u>also</u> decide to take into account a contribution from waste heat and cold to further incentivise efficiency in their systems [, provided that the level of ambition to increase the share of renewable energy in the sector referred to in the first subparagraph is maintained] [].

[Member States with a share of renewable energy in heating and cooling above [60%] may count any such share as fulfilling the yearly increase referred to in the first subparagraph.]

- 2. Member States may designate and make public, on the basis of objective and non-discriminatory criteria, a list of measures and the implementing entities, such as fuel suppliers, **public or professional bodies,** which shall contribute to the increase set out in paragraph 1.
- 3. The increase set out in paragraph 1 may be implemented through, *inter alia*, one or more of the following options:
- (a) physical incorporation of renewable energy in the energy and energy fuel supplied for heating and cooling;
- (b) direct mitigation measures such as installation of highly efficient renewable heating and cooling systems in buildings or renewable energy use for industrial heating and cooling processes;

(c) indirect mitigation measures covered by tradable certificates proving compliance with the obligation through support to indirect mitigation measures, carried out by another economic operator such as an independent renewable technology installer or energy service company - ESCO providing renewable installation services.

(d) other policy measures, including fiscal measures or other financial incentives.

- 4. Member States may use the established structures under the national energy efficiency obligation schemes set out in Article 7 of Directive 2012/27/EU to implement and monitor the measures referred to in paragraph 2.
- 5. Where [] entities are designated under paragraph 2 Member States shall ensure that their contribution is measurable and verifiable and that the designated entities [] report annually [] on:
- (a) the total amount of energy supplied for heating and cooling;
- (b) the total amount of renewable energy supplied for heating and cooling;
- (c) the share of renewable energy in the total amount of energy supplied for heating and cooling; and
- (d) the type of renewable energy source.



Article 24

District Heating and Cooling

- 1. Member States shall ensure that district heating and cooling suppliers provide information to [end-consumers] final users on their energy performance and the share of renewable energy in their systems in an easy to access manner, such as on suppliers' websites or bills in accordance with point (3)(b) of Annex VIIa of [amending Directive 2012/27/EU, COM(2016) 761]. []
- 2. Member States shall lay down the necessary measures **and conditions** to allow customers of those district heating or cooling systems which are not 'efficient district heating and cooling' within the meaning of Article 2(41) of Directive 2012/27/EU to:
- a) [] terminate their contract in order to produce heating or cooling from renewable energy sources themselves; or
- b) when the option in paragraph 4(b) is implemented, upon request, to be provided with supply from renewable energy sources and waste heat or cold through the system for which they are connected to.
- [] Termination of the contract under point a) may be made conditional on the compensation for the undepreciated portion of assets needed to provide heat and cold to that customer. [].
- 3. Member States may restrict the right to disconnect [] to customers who can prove that the planned alternative supply solution for heating or cooling results in a significantly better energy performance. The performance assessment of the alternative supply solution may be based on the Energy Performance Certificate as defined in Directive 2010/31/EU.

- 4. Member States shall lay down the necessary measures to ensure that district heating or cooling systems contribute to the increase referred to in Article 23 paragraph 1 by implementing at least one of the two following options:
- a) Endeavour to increase the share of renewable energy sources and from waste heat and cold sources in district heating and cooling by at least 1 percentage point (pp) every year starting from the level achieved in 2020, expressed in terms of share of final energy consumption for district heating and cooling, by implementing measures that can be expected to trigger this yearly increase in years with normal climatic conditions

Member States with a share of renewable energy and waste heat and cold in district heating and cooling above 60% may count any such share as fulfilling the yearly increase referred to in the first subparagraph.

Member States shall lay down the necessary measures to implement the increase set out in paragraph 4 (a) in their national energy and climate plans.

- b) Ensure that operators of district heating or cooling systems are obliged to connect suppliers of energy from renewable energy sources and waste heat and cold or have to offer to connect and purchase heat and cold produced from renewable energy sources and waste heat and cold from third party suppliers when they need to []:
- a) meet demand from new customers and respond to requests from customers made under paragraph 2(b);
- b) replace existing heat and cold generation capacities; and
- c) expand existing heat and cold generation capacities.

- 5. [If there is additional heat or cold supply to be added to a system,] When the option in paragraph 4 (b) is implemented, an operator of a district heating or cooling system may refuse to connect and buy heat or cold from [] third party suppliers where:
- (a) the system lacks the necessary capacity due to other supplies of waste heat or cold, of heat or cold from renewable energy sources or of heat or cold produced by high-efficiency cogeneration;
- (b) the heat or cold supplied from the third party does not meet the technical parameters necessary to connect and ensure the reliable and safe operation of the district heating and cooling system; or
- (c) it can demonstrate that the cost of the heat or cold supply bought from the third party supplier would be significantly higher compared to the main local heat or cold supply source with which the renewable source or the waste heat and cold would compete.

Member States shall ensure that when [] the operator of the district heating or cooling system [] refuses to connect a supplier of heating or cooling [] information is provided by the operator to the competent authority according to paragraph 9 on the reasons for the refusal, as well as the conditions and measures that would [] need to be taken in the system in order to enable the connection.

- 6. When the option in paragraph 4 (b) is implemented, Member States may exempt from the application of paragraph 4 (b):
- a) new district heating or cooling systems [] that constitute 'efficient district heating and cooling' within the meaning of Article 2(41) of Directive 2012/27/EU [];
- b) existing district heating or cooling systems that become efficient in the sense of Article 2(41) of Directive 2012/27/EU [] by 2025 based on a plan approved by the competent authority;
- c) district heating and cooling systems in operation before the [entry into force of this Directive] with less than [5.000 end-consumers [or less than 100 customers].
- 7. The right to disconnect or **request to change the supply source within the district heating and cooling systems** [] may be exercised by individual customers, by joint undertakings formed by customers or by parties acting on the behalf of customers. For multi-apartment blocks, such disconnection may only be exercised at whole building level **in accordance with the applicable dwelling law**.
- 8. Member States shall require electricity distribution system operators to assess at least **every four years** [], in cooperation with the operators of district heating or cooling systems in their respective area, the potential of district heating or cooling systems to provide balancing and other system services, including demand response and storing of excess electricity produced from renewable sources and if the use of the identified potential would be more resource- and cost-efficient than alternative solutions.
- 9. Member States shall ensure that the rights of consumers and the rules for operating district heating and cooling systems in accordance with this Article are clearly defined and enforced.

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- 10. Member States may decide not to apply paragraphs 2 to 9 of this Article if:
- a) their share of district heating and cooling is less than [2%] of the overall consumption of energy for heating and cooling at [the entry into force of this Directive]; or
- b) if they are increasing the share in point (a) of this paragraph beyond [2%] by developing new efficient district heating and cooling systems as referred to in Article 2(41) of Directive 2012/27/EU based on their integrated national energy and climate plans or the assessment referred to in Article 15(8); or
- c) the share of systems referred in the paragraph 6 of this article constitute over 90 % of total sales of district heating and cooling in a member state.

Article 25

Mainstreaming renewable energy in the transport sector

1. [] In order to mainstream renewable energy use in the transport sector, each Member State shall [] set an obligation on fuel suppliers to ensure the share of renewable energy supplied for final consumption in the transport sector is at least 12% by 2030, following an indicative trajectory set by the Member State [] and calculated in accordance to the methodology set out in this article. Member States may decide to include in such a minimum share also the contribution from recycled carbon fuels. Member States may exempt or distinguish between different fuel suppliers and energy carriers when setting this obligation, ensuring varied maturity and cost of technologies is taken into account.

[] Within this total share, [] the contribution of [] biofuels and biogas produced from feedstock listed in part A of Annex IX shall observe a trajectory set by the Member State starting from the level set [under Article 3(4)e of Directive 2009/28][], increasing up to at least [] [3% by 2030 [].



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When [] setting the obligation [] under the first and second sub-paragraphs to ensure the achievement of the share set out therein, Member States may do so, inter alia, by renewable energy obligations or other measures targeting volumes, energy content or greenhouse gas emission savings provided that it is demonstrated that the shares set out in the first and second sub-paragraph are achieved.

For the purpose of demonstrating compliance with the obligation under the first and second sub-paragraphs, Cyprus and Malta may consider the contribution of biofuels and biogas produced from feedstock listed in Annex IX to be twice their energy content.

The greenhouse gas emission savings from the use of renewable liquid and gaseous transport fuels of non-biological origin and recycled carbon fuels shall be at least 70% as of 1 January 2021.

For the calculation of a Member State's gross final consumption of energy from renewable energy sources set out in Article 7 and the share set out in the first sub-paragraph of this Article, each Member State shall ensure that the share of energy from renewable fuels produced from food or feed crops shall be no more than 7% of energy consumption in road and rail transport. This restriction does not include low indirect land-use change-risk biofuels and bioliquids. Member States may set a lower limit and may distinguish for the purposes of Article 26(1) between types of biofuels, bioliquids and biomass fuels produced from food and feed crops, based on categories set out in Annex VIII, for instance by setting a lower limit for the contribution from food or feed crop based biofuels produced from oil crops, taking into account indirect land use change impact.

For the calculation of the shares referred to in the [] **first and second** [] sub-paragraph, the following provisions shall apply:

- a) for the calculation of the denominator, that is the energy content of road and rail transport fuels supplied for consumption or use on the market, petrol, diesel, natural gas, biofuels, biogas, **liquefied petrol gas, hydrogen**, renewable liquid and gaseous transport fuels of non-biological origin, recycled carbon fuels [] and electricity supplied to road and rail transport [], shall be taken into account;
- b) for the calculation of the numerator, that is the amount of energy from renewable sources consumed in transport for the purposes of the first subparagraph, the energy content of all types of energy from renewable sources [] supplied to all transport sectors, and renewable electricity supplied to road and rail transport [], shall be taken into account.

 Recycled carbon fuels shall be taken into account if a Member State decides to do so.

For the calculation of the numerator, **Member States may limit** the contribution from biofuels and biogas produced from feedstock included in part B of Annex IX, [] taking into account the availability of feedstock included in part B of Annex IX []. The contribution of fuels supplied in the aviation and maritime sector shall be considered to be 1.2 times their energy content.

The contribution of renewable electricity [] shall be considered to be 5 times its energy content when supplied to road vehicles and 2,5 times its energy content when supplied to electricified rail.⁴⁰



c) For the calculation of both numerator and denominator, the values regarding the energy content of transport fuels, as set out in Annex III, shall be used. For the determination of the energy content of transport fuels not included in Annex III, the Member States shall use the respective ESOs standards for determination of calorific values of fuels. Where no ESOs standard has been adopted for this purpose, the respective ISO standards shall be used.

Note: please see also new recital 64bis.

The Commission is empowered to adopt [delegated acts in accordance with Article 32] concerning the adaptation of the energy content of transport fuels, as set out in Annex III, to scientific and technical progress.

3. To determine the share of renewable electricity for the purposes of paragraph 1 either the average share of electricity from renewable energy sources in the Union or the share of electricity from renewable energy sources in the Member State where the electricity is supplied, as measured two years before the year in question may be used.

The share of renewable energy in liquid and gaseous transport fuels shall be determined on the basis of the share of renewable energy in the total energy input used for the production of the fuel.

For the purposes of this paragraph, the following provisions shall apply:

(a) When electricity is used for the production of renewable liquid and gaseous transport fuels of non-biological origin, either directly or for the production of intermediate products, either the average share of electricity from renewable energy sources in the Union or the share of electricity from renewable energy sources in the country of production, as measured two years before the year in question, may be used to determine the share of renewable energy.

However, electricity obtained from direct connection to an installation generating renewable electricity (i) that comes into operation after or at the same time as the installation producing the renewable liquid and gaseous transport fuel of non-biological origin and [] (ii) is not connected to the grid[] or [] is connected to the grid[] but can provide evidence that the respective electricity has been provided without importing electricity from the wider grid for that the electricity generation would have been lost if not consumed by the plant], can be fully counted as renewable electricity for the production of that renewable liquid and gaseous transport fuel of non-biological origin.

3bis. With a view to minimising the risk of single consignments being claimed more than once in the Union, Member States and the Commission shall strengthen cooperation among national systems and between national systems and voluntary schemes and verifiers established pursuant to Article 27, including, where appropriate, the exchange of data. Where an authority suspects or detects a fraud it shall, where appropriate, inform other Member States of the issue.

4. The Commission [] shall ensure that [] a database is put in place enabling tracing of liquid and gaseous transport fuels that are eligible for counting towards the numerator set out in paragraph 1(b) or taken into account for the purposes referred to in points (a), (b), and (c) of Article 26(1), and Member States shall require the relevant economic operators to enter information on the transactions made and the sustainability characteristics of these [] fuels, including their life cycle greenhouse gas emissions, starting from their point of production to the fuel supplier that places the fuel on the market. Member States may set up a national database that is linked to the one put in place by the Commission ensuring that information entered [to the database put in place by the Commission].

The fuel suppliers shall enter the information necessary to verify compliance with the requirements set out in paragraph 1, first subparagraph. []



fully informed decision about the allocation of renewable properties for different outputs from coprocessing.

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Note: since coprocessing fossils and renewables is not widespread practice today and can be done under the current regime as well, the Presidency is of the view that an implementing act as specified in paragraph 6 of this Article is suitable for taking a

5. Member States shall have access to the database and take measures to ensure that within each Member States economic operators enter the correct information. The Commission shall require the schemes that are the subject of a decision pursuant to paragraph 4 of Article 27 to verify compliance with this requirement when checking compliance with the sustainability criteria for biofuels, bioliquids and biomass fuels.

The Commission shall set out detailed rules for economic operators to comply with the requirement set out in paragraph 4 and this paragraph, including independent auditing and technical specifications for transfers of information from national databases to the Commission database set out in paragraph 4, by means of implementing acts adopted in accordance with the examination procedure referred to in Article 31.

6. The Commission is empowered to adopt [] implementing acts in accordance with Article 31 [] to [] specify the methodology [] to determine the share of biofuel resulting from biomass being processed with fossil fuels in a common process, and to specify the methodology for assessing greenhouse gas emission savings from renewable liquid and gaseous transport fuels of non-biological origin [] and recycled carbon fuels []. The Commission shall adopt such methodologies no later than December 2020[1].

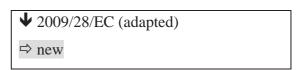
6bis. The Commission is empowered to amend the list of feedstocks in parts A and B of Annex IX in order to add feedstocks, but not to remove them. Feedstocks that can only be processed with advanced technologies shall be added to Annex IX part A while feedstocks that can be processed into biofuels with mature technologies shall be added to Annex IX Part B.

Each [delegated] implementing act amending the list of feedstocks in parts A and B shall be based on an analysis of the potential of the raw material as a feedstock for the production of biofuels taking into account:

- i) the principles of the waste hierarchy established in Directive 2008/98/EC;
- ii) the Union sustainability criteria set out in Article 27;
- iii) the risk of displacement effects and potential distortive effects on markets for (by-) products, wastes or residues;
- iv) the potential for delivering substantial greenhouse gas emission savings compared to fossil fuels; and
- v) the risk of negative impacts on the environment and biodiversity.

Every 2 years, the Commission shall carry out an evaluation of the list of feedstocks in parts A and B of Annex IX in order to add feedstocks, in line with the principles set out in this paragraph. The first evaluation shall be carried out no later than 6 months after [date of entry into force of this Directive].

7. By 31 December 2025, in the context of the biennial assessment of progress made pursuant to Regulation [Governance], the Commission shall assess whether the obligation laid down in paragraph 1 effectively stimulates innovation and promotes greenhouse gas savings in the transport sector, and whether the applicable greenhouse gas savings requirements for biofuels and biogas are appropriate. The Commission shall, if appropriate, present a proposal to modify the obligation laid down in paragraph 1.



Article 1726

Sustainability \Rightarrow and greenhouse gas emissions saving \Leftarrow criteria for biofuels, $\frac{and}{\Rightarrow}$ bioliquids \Rightarrow and biomass fuels \Leftarrow

- 1. Irrespective of whether the raw materials were cultivated inside or outside the territory of the Community, eEnergy from biofuels, and bioliquids \Rightarrow and biomass fuels \Leftarrow shall be taken into account for the purposes referred to in points (a), (b) and (c) \boxtimes of this paragraph \boxtimes only if they fulfil the sustainability criteria set out in paragraphs 2 to 6 \Rightarrow and the greenhouse gas emissions saving criteria set out in paragraph 7 \Leftarrow :
 - (a) measuring compliance with the requirements of this Directive concerning national targets;

 ⇒ contributing towards the Union target and Member States renewable energy share

 ;
 - (b) measuring compliance with renewable energy obligations ⇒, including the **obligation[]** set out in Article [] 25 ⇔;
 - (c) eligibility for financial support for the consumption of biofuels, $\frac{1}{2}$ and biomass fuels \rightleftharpoons .

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However, biofuels, and bioliquids ⇒ and biomass fuels ⇔ produced from waste and residues, other than agricultural, aquaculture, fisheries and forestry residues, need only fulfil the sustainability ⇒ greenhouse gas emissions saving ⇔ criteria set out in paragraph ⊋7 in order to be taken into account for the purposes referred to in points (a), (b) and (c) ☒ of this paragraph ☒. ⇒ This provision shall also apply to waste and residues that are first processed into a product before being further processed into biofuels, bioliquids and biomass fuels. ⇔ Electricity, heating and cooling produced from municipal solid waste shall not be subject to the greenhouse gas emissions savings criteria set out in paragraph 7.

new

Biomass fuels shall have to fulfil the sustainability and greenhouse gas emissions saving criteria set out in paragraphs 2 to 7 only if used in installations producing electricity, heating and cooling or fuels with a [] total rated thermal input equal to or exceeding 20 MW in case of solid biomass fuels and with a [] total rated thermal input capacity equal to or exceeding [] 2 MW in case of gaseous biomass fuels. []

The sustainability criteria set out in paragraphs 2 to 6 and the greenhouse gas emissions saving criteria set out in paragraph 7 shall apply irrespectively of the geographical origin of the biomass.

V 2009/28/EC Article 17 (adapted)

⇒ new

32. Biofuels, and bioliquids ⇒ and biomass fuels produced from agricultural biomass ⇔ taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 shall not be made from raw material obtained from land with high biodiversity value, namely land that had one of the following statuses in or after January 2008, whether or not the land continues to have that status:

8697/4/17 REV 4 AT/st 122 DGE 2B EN (a) primary forest and other wooded land, namely forest and other wooded land of native species, where there is no clearly visible indication of human activity and the ecological processes are not significantly disturbed;

(b) areas designated:

- (i) by law or by the relevant competent authority for nature protection purposes; or
- (ii) for the protection of rare, threatened or endangered ecosystems or species recognised by international agreements or included in lists drawn up by intergovernmental organisations or the International Union for the Conservation of Nature, subject to their recognition in accordance with the firstsecond subparagraph of Article 1827(4);

unless evidence is provided that the production of that raw material did not interfere with those nature protection purposes;

- (c) highly biodiverse grassland [⇒-spanning more than one hectare- (⇒-spanning more t
- (i) natural, namely grassland that would remain grassland in the absence of human intervention and which maintains the natural species composition and ecological characteristics and processes; or
- (ii) non-natural, namely grassland that would cease to be grassland in the absence of human intervention and which is species-rich and not degraded \Rightarrow and has been identified as being highly biodiverse by the relevant competent authority, \Leftarrow unless evidence is provided that the harvesting of the raw material is necessary to preserve its grassland status \boxtimes as highly biodiverse grassland \boxtimes .

new

The Commission may **further specify** [] the criteria to determine which grassland shall be covered by point (c) by means of implementing acts adopted in accordance with the examination procedure referred to in Article 31(2).

◆ 2009/28/EC Article 17 (adapted)

⇒ new

- 4.3. Biofuels and, bioliquids ⇒ and biomass fuels produced from agricultural biomass ⇔ taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 shall not be made from raw material obtained from land with high carbon stock, namely land that had one of the following statuses in January 2008 and no longer has that status:
 - (a) wetlands, namely land that is covered with or saturated by water permanently or for a significant part of the year;
 - (b) continuously forested areas, namely land spanning more than one hectare with trees higher than five metres and a canopy cover of more than 30 %, or trees able to reach those thresholds in situ;
 - (c) land spanning more than one hectare with trees higher than five metres and a canopy cover of between 10 % and 30 %, or trees able to reach those thresholds in situ, unless evidence is provided that the carbon stock of the area before and after conversion is such that, when the methodology laid down in part C of Annex V is applied, the conditions laid down in paragraph 7⊋ of this Article would be fulfilled.

The provisions of this paragraph shall not apply if, at the time the raw material was obtained, the land had the same status as it had in January 2008.

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account for the purposes referred to in points (a), (b) and (c) of paragraph 1 shall not be made from raw material obtained from land that was peatland in January 2008, unless evidence is provided that the cultivation and harvesting of that raw material does not involve drainage of previously undrained soil. new 5. Biofuels, bioliquids and biomass fuels produced from forest biomass taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 shall meet the following requirements to minimise the risk of using [] forest biomass **derived from unsustainable** production: (a) the country in which forest biomass was harvested has national and/or sub-national laws applicable in the area of harvest as well as monitoring and enforcement systems in place ensuring that: i) [] the legality of harvesting operations; ii) forest regeneration of harvested areas []; iii) areas designated by law or by the relevant competent authority for nature protection **purposes** [], including wetlands and peatlands, [], are protected; iv) the impacts of forest harvesting activities on soil quality and biodiversity are minimised; and v) harvesting does not exceed the long-term production capacity of the forest; (b) when evidence referred to in the first subparagraph is not available, the biofuels, bioliquids and biomass fuels produced from forest biomass shall be taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 if management systems are in place at forest sourcing area level to ensure :

54. Biofuels, and bioliquids ⇒ and biomass fuels produced from agricultural biomass ⇔ taken into

- i) [] the legality of harvesting operations;
- ii) forest regeneration of harvested areas [];
- iii) areas designated by law or by the relevant competent authority for nature protection purposes [], including wetlands and peatlands, unless evidence is provided that the harvesting of that raw material did not interfere with those nature protection purposes, are protected;
- (iv) impacts of forest harvesting activities on soil quality and biodiversity are minimised;
- (v) harvesting does not exceed the long-term production capacity of the forest.
- 6. Biofuels, bioliquids and biomass fuels produced from forest biomass [] taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 [] shall meet [] the following LULUCF requirements:
 - a) the country or regional economic integration organisation of origin of the forest biomass:
 - (i) is a Party to, and has ratified, the Paris agreement;
 - (ii)has submitted a Nationally Determined Contribution (NDC) to the United Nations Framework Convention on Climate Change (UNFCCC), covering emissions and removals from agriculture, forestry and land use which ensures that either changes in carbon stock associated with biomass harvest are accounted towards the country's commitment to reduce or limit greenhouse gas emissions as specified in the NDC, or there are national or sub-national laws in place, in accordance with Article 5 of the Paris Agreement, applicable in the area of harvest, to conserve and enhance carbon stocks and sinks;
 - iii) has a national system in place for reporting greenhouse gas emissions and removals from land use including forestry and agriculture, which is in accordance with the requirements set out in decisions adopted under the United Nations Framework Convention on Climate Change (UNFCCC) and the Paris Agreement;

(b) when evidence referred to in **point (a)** [] is not available, the biofuels, bioliquids and biomass fuels produced from forest biomass shall be taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 if management systems are in place at forest **sourcing area** [] level to ensure that carbon stocks and sinks levels in the forest are maintained **over the long term**.

The Commission may establish the operational **guidance on the** [] evidence for demonstrating compliance with the requirements set out in paragraphs 5 and 6, by means of implementing acts adopted in accordance with the examination procedure referred to in Article 31(2).

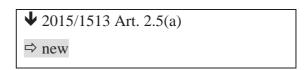
By 31 December **2026** [], the Commission shall assess whether the criteria set out in paragraphs 5 and 6 effectively minimise the risk of using [] forest biomass **derived from unsustainable production** and address LULUCF requirements, on the basis of available data. The Commission shall, if appropriate, present a proposal to modify the requirements laid down in paragraphs 5 and 6.

↓ 2009/28/EC
□ new

- 7. The greenhouse gas emission saving from the use of biofuels, bioliquids and biomass fuels taken into account for the purposes referred to in paragraph 1 shall be:
- (a) at least 50 % for biofuels, **biogas consumed in transport** and bioliquids produced in installations in operation on or before 5 October 2015;
- (b) at least 60 % for biofuels, **biogas consumed in transport** and bioliquids produced in installations starting operation from 5 October 2015;
- (c) at least 70 % for biofuels, **biogas consumed in transport** and bioliquids produced in installations starting operation after 1 January 2021;

(d) at least [] 70 % for electricity, heating and cooling production from biomass fuels used in installations starting operation after 1 January 2021 and [] 75% for installations starting operation after 1 January 2026.

An installation shall be considered to be in operation once the physical production of biofuels or bioliquids and of heating and cooling, and electricity for biomass fuels has started.



[—]

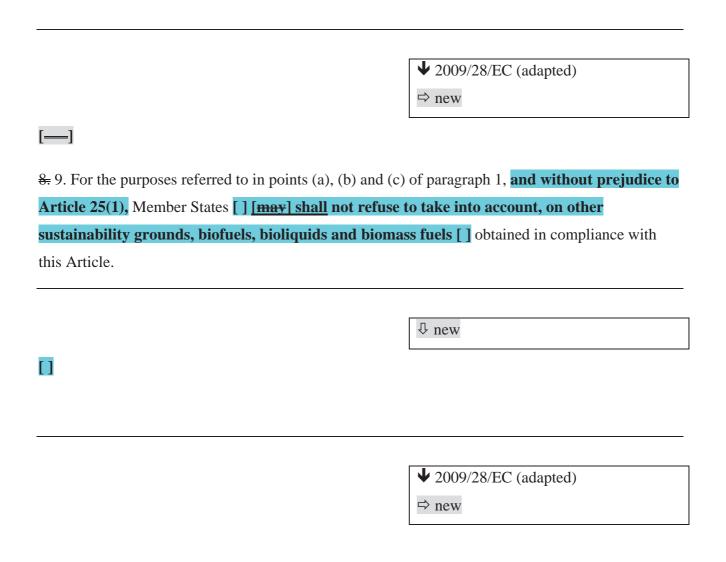
The greenhouse gas emission saving from the use of biofuels, and bioliquids \Rightarrow and biomass fuels used in installations producing heating, cooling and electricity \Leftrightarrow shall be calculated in accordance with Article $\frac{19}{28}(1)$.

↓ new

[8. Electricity from biomass fuels produced in installations with a [] total rated thermal input equal to or exceeding 20 MW shall be taken into account for the purposes referred to in points (a), (b) and (c) of paragraph 1 only if it is produced applying high efficient cogeneration technology as defined under Article 2(34) of Directive 2012/27/EU, Biomass Carbon Capture and Storage or other efforts to develop negative emissions delivering substantial greenhouse gas emission savings. For the purposes of points (a) and (b) of paragraph 1, this provision shall only apply to installations starting operation after [3 years from date of adoption of this Directive]. For the purposes of point (c) of paragraph 1, this provision is without prejudice to public support provided under schemes approved by [3 years after date of adoption of this Directive].

The first sub-paragraph shall not apply to electricity from installations which are the object of a specific notification by a Member State to the Commission based on the duly substantiated existence of risks for the security of supply of electricity. Upon assessement of the notification, the Commission shall adopt a decision taking into account the elements included therein.]

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Article 1827

Verification of compliance with the sustainability ⇒ and greenhouse gas emissions saving

1. Where biofuels, and bioliquids \Rightarrow [] biomass fuels \Leftrightarrow and/or other fuels that are eligible for counting towards the numerator set out in Article 25(1)(b) are to be taken into account for the purposes referred to \Rightarrow in Articles 23 and 25 and \Leftarrow in points (a), (b) and (c) of Article +726(1), Member States shall require economic operators to show that the sustainability ⇒ and greenhouse gas emissions saving \leftarrow criteria set out in Article 2617(2) to (5)-(7) have been fulfilled. For those purposes they shall require economic operators to use a mass balance system which:

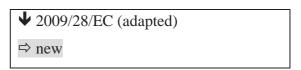
(a) allows consignments of raw material or ☐ fuels \Leftarrow] with differing sustainability \Rightarrow and greenhouse gas emissions saving

characteristics to be mixed

for instance in a container, processing or logistical facility, transmission and distribution infrastructure or site <=;

new

(b) allows consignments of raw material with differing energy content to be mixed for the purpose of further processing, provided that the size of consignments is adjusted according to their energy content;



(bc) requires information about the sustainability ⇒ and greenhouse gas emissions saving ⇔ characteristics and sizes of the consignments referred to in point (a) to remain assigned to the mixture; and

($\stackrel{\bullet}{e}$ d) provides for the sum of all consignments withdrawn from the mixture to be described as having the same sustainability characteristics, in the same quantities, as the sum of all consignments added to the mixture \Rightarrow and requires that this balance be achieved over an appropriate period of time \Leftarrow .

The mass balance system shall furthermore ensure that each consignment is supported under one support scheme only and shall be considered only once in point (a), (b) or (c) of the first subparagraph of article 7(1), for calculating the gross final consumption of energy from renewable sources.

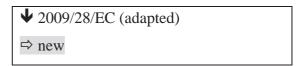
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2. Where a consignment is processed, information on the sustainability and greenhouse gas emissions saving characteristics of the consignment shall be adjusted and assigned to the output in accordance with the following rules:

(a) when the processing of a consignment of raw material yields only one output that is intended for the production of biofuels, bioliquids [] biomass fuels, **renewable liquid and gaseous transport fuels of non-biological origin or** [] **recycled carbon fuels** the size of the consignment and the related quantities of sustainability and greenhouse gas emissions saving characteristics shall be adjusted applying a conversion factor representing the ratio between the mass of the output that is intended for the production of biofuels, bioliquids or biomass fuels and the mass of the raw material entering the process;

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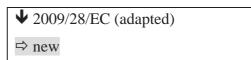
(b) when the processing of a consignment of raw material yields more than one output that is intended for the production of biofuels, bioliquids [] biomass fuels, **renewable liquid** and gaseous transport fuels of non-biological origin or [] recycled carbon fuels for each output a separate conversion factor shall be applied and a separate mass balance shall be used.





3. Member States shall take measures to ensure that economic operators submit reliable information ⇒ regarding the compliance with the sustainability and greenhouse gas emissions saving criteria set out in Article 25(6) and Article 26(2) to (7) ⇔ and make available to the Member State, on request, the data that were used to develop the information. Member States shall require economic operators to arrange for an adequate standard of independent auditing of the information submitted, and to provide evidence that this has been done. For the compliance with articles 26(5)a and 26(6)a on forest biomass first or second party auditing may be used up to the first gathering point of the [forest] biomass. The auditing shall verify that the systems used by economic operators are accurate, reliable and protected against fraud. It shall evaluate the frequency and methodology of sampling and the robustness of the data.





The obligations laid down in this paragraph shall apply whether the biofuels, ⊕ bioliquids-⇒, [] biomass fuels, ⇔ renewable liquid and gaseous transport fuels of non-biological origin and recycled carbon fuels are produced within the €ommunity ⊗ Union ⊗ or imported.

Member States shall submit to the Commission, in aggregated form, the information referred to in the first subparagraph of this paragraph. The Commission shall publish that information on the transparency platform

the e-reporting platform

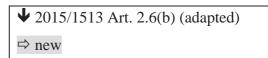
referred to in Article 24

of Regulation
[Governance]

in summary form preserving the confidentiality of commercially sensitive information.

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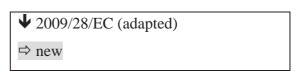


4. The Commission may decide that voluntary national or international schemes setting standards for the production of [] biofuels, bioliquids, biomass fuels and/or other fuels that are eligible for counting towards the numerator set out in Article 25(1)(b) [] provide accurate data on greenhouse gas emission savings for the purposes of Article 25 and Article 17(2) 26(7), and/or demonstrate that the provisions set out in Article 25(3), (4) and (5) have been respected and/or demonstrate that consignments of biofuels, ⊕ bioliquids ⇒ or biomass fuels ⇔ comply with the sustainability criteria set out in Article $\pm 726(2)$, (3), (4), and (5) and (6), \square . \Rightarrow When demonstrating that requirements set out in Article 26(5) and (6) for forest biomass are met, the operators may decide to directly provide the required evidence at the **sourcing area** [] level. \Leftrightarrow The Commission may decide that those schemes contain accurate data for the purposes of information on measures taken for the conservation of areas that provide, in critical situations, basic ecosystem services (such as watershed protection and erosion control), for soil, water and air protection, the restoration of degraded land, the avoidance of excessive water consumption in areas where water is scarce and on the issues referred to in the second subparagraph of Article 17(7). The Commission may also recognise areas for the protection of rare, threatened or endangered ecosystems or species recognised by international agreements or included in lists drawn up by intergovernmental organisations or the International Union for the Conservation of Nature for the purposes of Article $26\frac{17}{(23)}(b)(ii)$.

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The Commission may decide that \Rightarrow those \Leftarrow voluntary national or international schemes to measure greenhouse gas emission saving contain accurate data \Rightarrow information on measures taken \Leftarrow for the purposes of Article 17(2). \Rightarrow soil, water and air protection, the restoration of degraded land, the avoidance of excessive water consumption in areas where water is scarce, and for certification of biofuels and bioliquids with low indirect land-use change-risk \Leftarrow .



5. The Commission shall adopt decisions under paragraph 4 only if the agreement or scheme in question meets adequate standards of reliability, transparency and independent auditing and provides adequate assurances that no materials have been intentionally modified or discarded so that the consignment or part thereof would fall under Annex IX. In the case of schemes to measure greenhouse gas emission saving, such schemes shall also comply with the methodological requirements in Annex $V \Rightarrow \text{or Annex VI} \Leftarrow \text{.}$ Lists of areas of high biodiversity value as referred to in Article $26\frac{17}{2}(2\frac{3}{2})(b)(ii)$ shall meet adequate standards of objectivity and coherence with internationally recognised standards and provide for appropriate appeal procedures.



The voluntary schemes referred to in paragraph 4 ('the voluntary schemes') shall regularly, and at least once per year, publish a list of their certification bodies used for independent auditing, indicating for each certification body by which entity or national public authority it was recognised and which entity or national public authority is monitoring it.

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In order ⇒ to ensure that compliance with the sustainability and greenhouse gas emissions saving criteria is verified in an efficient and harmonised manner and ⇔ in particular to prevent fraud, the Commission may, on the basis of a risk analysis or the reports referred to in the second subparagraph of paragraph 6 of this Article, specify the ⇒ detailed implementing rules, including adequate ⇔ standards of ⇒ reliability, transparency and ⇔ independent auditing and require all voluntary schemes to apply those standards. ⇒ When specifying these standards, the Commission shall pay special attention to the need to minimize administrative burden. ⇔ This shall be done by means of implementing acts adopted in accordance with the examination procedure referred to in Article 25 31 (2). Such acts shall set a time frame by which voluntary schemes need to implement the standards. The Commission may repeal decisions recognising voluntary schemes in the event that those schemes fail to implement such standards in the time frame provided for. Should a Member State raise concerns that a scheme is not operating according to the standards of reliability, transparency and independent auditing that constitute the basis for the Decision under paragraph 4, the Commission shall investigate the matter and take appropriate action.

♦ 2015/1513 Art. 2.6(d) (adapted)	_
⇒ new	

6. Decisions under paragraph 4 of this Article shall be adopted in accordance with the examination procedure referred to in Article 2531(2). Such decisions shall be valid for a period of no more than five years.

The Commission shall require that each voluntary scheme on which a decision has been adopted under paragraph 4 submit [] annually [] by 30 April[] a report to the Commission covering each of the points set out in **Annex IX of Regulation [Governance]** []. [] **T**he report shall cover the preceding calendar year. [] The requirement to submit a report shall apply only to voluntary schemes that have operated for at least 12 months.



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The Commission shall make the reports drawn up by the voluntary schemes available, in an aggregated form or in full if appropriate, on the $\frac{1}{2}$ e-reporting \rightleftharpoons platform referred to in Article 24 \Rightarrow of Regulation [Governance] \rightleftharpoons .

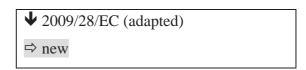
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Member States may set up national schemes where compliance with the sustainability and greenhouse gas emissions saving criteria set out in Article 26(2) to (7) is verified throughout the entire chain of custody involving competent national authorities.

♦ 2015/1513 Art. 2.6(d) (adapted)

⇒ new

A Member State may notify its national scheme to the Commission. The Commission shall give priority to the assessment of such a scheme. A decision on the compliance of such a notified national scheme with the conditions set out in this Directive shall be adopted in accordance with the examination procedure referred to in Article 2531(2), in order to facilitate mutual bilateral and multilateral recognition of schemes for verification of compliance with the sustainability \Rightarrow and greenhouse gas emissions saving \Leftrightarrow criteria for biofuels, and bioliquids \Rightarrow and biomass fuels \Leftrightarrow . Where the decision is positive, schemes established in accordance with this Article shall not refuse mutual recognition with that Member State's scheme, as regards the verification of compliance with the sustainability \Rightarrow and greenhouse gas emissions saving \Leftrightarrow criteria set out in Article 2617(2) to (75).



7. When an economic operator provides proof or data obtained in accordance with an agreement or a scheme that has been the subject of a decision pursuant to paragraph $4 \Rightarrow \text{ or } 6 \Leftrightarrow$, to the extent covered by that decision, a Member State shall not require the supplier to provide further evidence of compliance with the sustainability \Rightarrow and greenhouse gas emissions saving \Leftrightarrow criteria set out in Article $26\overline{17}(2)$ to (75) nor information on measures referred to in the second subparagraph of paragraph 3 of this Article.

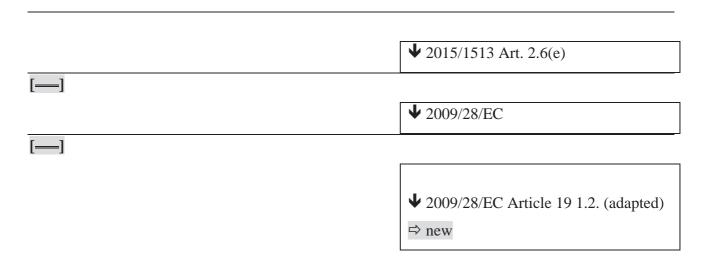
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Competent authorities of the Member States shall [] supervise the operation of certification bodies that are [] conducting independent auditing under a voluntary scheme in accordance with Regulation (EC) No 765/2008. Certification bodies shall upon request of competent authorities submit all relevant information necessary to supervise the operation including the exact date, time and location of audits. In case Member States find issues of non-conformity, they shall inform promptly the voluntary scheme and the accreditation body.

7bis. At the request of a Member State, the Commission shall, on the basis of available evidence, examine whether the sustainability and greenhouse gas emissions saving criteria set out in Article 26 in relation to a source of biofuel, bioliquid or biomass fuel have been met. Within six months of receipt of such a request and in accordance with the examination procedure referred to in Article 31, the Commission shall decide whether the Member State concerned may take biofuel or bioliquid from that source into account for the purposes referred to in points (a), (b) and (c) of Article 25(1) or whether, as a derogation from paragraph 7, the Member State may require the supplier of the source of biofuel, bioliquid or biomass fuel to provide further evidence of compliance with the sustainability and greenhouse gas emissions saving criteria.

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Article #928

Calculation of the greenhouse gas impact of biofuels, and bioliquids ⇒ and biomass fuels ⇔

- 1. For the purposes of Article 26 (7) $\frac{17}{2}$, the greenhouse gas emission saving from the use of biofuel, and bioliquids \Rightarrow and biomass fuels \Leftarrow shall be calculated as follows:
 - (a) where a default value for greenhouse gas emission saving for the production pathway is laid down in part A or B of Annex V \Rightarrow for biofuels and bioliquids \Leftrightarrow and \Rightarrow in part A of Annex VI for biomass fuels \Leftrightarrow and where the e_l value for those biofuels or bioliquids calculated in accordance with point 7 of part C of Annex V \Rightarrow and for those biomass fuels calculated in accordance with point 7 of part B of Annex VI \Leftrightarrow is equal to or less than zero, by using that default value;
 - (b) by using an actual value calculated in accordance with the methodology laid down in part C of Annex V \Rightarrow for biofuels and bioliquids and in part B of Annex VI for biomass fuels \Leftrightarrow ; $\stackrel{\bullet}{\Leftrightarrow}$
 - (c) by using a value calculated as the sum of the factors of the $\frac{\text{formula}}{\text{Formula}} \boxtimes \text{formulas} \boxtimes \text{referred to in point 1 of part C of Annex V}$, where disaggregated default values in part D or E of Annex V may be used for some factors, and actual values, calculated in accordance with the methodology laid down in part C of Annex V, for all other factors; \boxtimes or \boxtimes

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(d) by using a value calculated as the sum of the factors of the formulas referred to in point 1 of part B of Annex VI, where disaggregated default values in part C of Annex VI may be used for some factors, and actual values, calculated in accordance with the methodology laid down in part B of Annex VI, for all other factors.

> **▶** 2009/28/EC Article 19 1.2. (adapted) ⇒ new

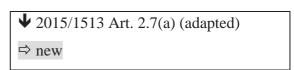
2. By 31 March 2010, Member States shall ⇒ may ⇔ submit to the Commission a report \boxtimes reports \boxtimes including $\frac{\text{a list}}{\text{big}} \Rightarrow$ information on the typical greenhouse gas emissions from cultivation of agricultural raw materials \Leftarrow of those areas on their territory classified as level 2 in the nomenclature of territorial units for statistics (NUTS) or as a more disaggregated NUTS level in accordance with Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the establishment of a common classification of territorial units for statistics (NUTS)⁴² where the typical greenhouse gas emissions from cultivation of agricultural raw materials can be expected to be lower than or equal to the emissions reported under the heading 'Disaggregated default values for cultivation' in part D of Annex V to this Directive, accompanied by a description of the method and data used to establish that list. \Rightarrow The reports shall be accompanied by a description of the method and data sources used to calculate the level of emissions. \(\sigma\) That method shall take into account soil characteristics, climate and expected raw material yields.

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⁴² Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the establishment of a common classification of territorial units for statistics (NUTS) (OJ L 154, 21.6.2003, p. 1).



- 3. The typical greenhouse gas emissions from cultivation of agricultural raw materials included in the reports referred to in paragraph 2 in the case of Member States, and, iIn the case of territories outside the Union, im-reports equivalent to those referred to in paragraph 2 and drawn up by competent bodies, may be reported to the Commission.
- 4. The Commission may decide, by means of an implementing act adopted in accordance with the examination procedure referred to in Article $31\frac{25}{23}$, that the reports referred to in paragraphs 2 \boxtimes and 3 \boxtimes of this Article contain accurate data for the purposes of measuring the greenhouse gas emissions associated with the cultivation of \Rightarrow agriculture biomass \Leftrightarrow biofuel and bioliquid feedstocks typically produced in those \boxtimes the \boxtimes areas \boxtimes included in such reports \boxtimes for the purposes of Article $\frac{17(2)}{26(7)}$. \Rightarrow These data may therefore be used instead of the disaggregated default values for cultivation laid down in part D or E of Annex V for biofuels and bioliquids and in Part C of Annex VI for biomass fuels. \Leftrightarrow

[—]

Ψ 2015/1513 Art. 2.7(c) (adapted)

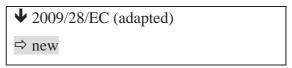
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57. The Commission shall keep Annex $V \Rightarrow$ and Annex $VI \Leftrightarrow$ under review, with a view, where justified, to the add \boxtimes ing \boxtimes ition of \Rightarrow or revising \Leftrightarrow values for further biofuel \Rightarrow , bioliquid and biomass fuel \Leftrightarrow production pathways for the same or for other raw materials. That review shall also consider the modification of the methodology laid down in part C of Annex $V \Rightarrow$ and in part C of Annex C of C of Annex C of C of Annex C of C o

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The default values for waste vegetable or animal oil biodiesel shall be reviewed as soon as possible. In the event that the Commission's review concludes that additions \Rightarrow changes \Leftrightarrow to Annex V \Rightarrow or Annex VI \Leftrightarrow should be made, the Commission \boxtimes is \bigotimes shall be empowered to adopt delegated acts pursuant to Article 3225a to add, but not to remove or amend, estimated typical and default values in parts A, B, D and E of Annex V for biofuel and bioliquid pathways for which specific values are not yet included in that Annex.



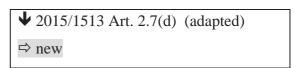
 \boxtimes In the case of \boxtimes \triangleq any adaptation of or addition to the list of default values in Annex V \Rightarrow and Annex VI \Leftarrow shall comply with the following:

(a) (a) where the contribution of a factor to overall emissions is small, or where there is limited variation, or where the cost or difficulty of establishing actual values is high, default values must ⋈ shall ⋈ be typical of normal production processes. ;

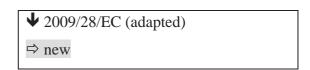
(b) in all other cases default values must be conservative compared to normal production processes.

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68. Where necessary in order to ensure the uniform application of point 9 of Part C of Annex V ⇒ and Part B of Annex VI ⇔, the Commission may adopt implementing acts setting out detailed technical specifications ⇒ including ⊲ and definitions ⇒, conversion factors, calculation of annual cultivation emissions and/ or emission savings caused by changes above and below-ground carbon stocks on already cultivated land, calculation of emission savings from carbon capture, carbon replacement and carbon geological storage ⇔. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 31 25 (23).



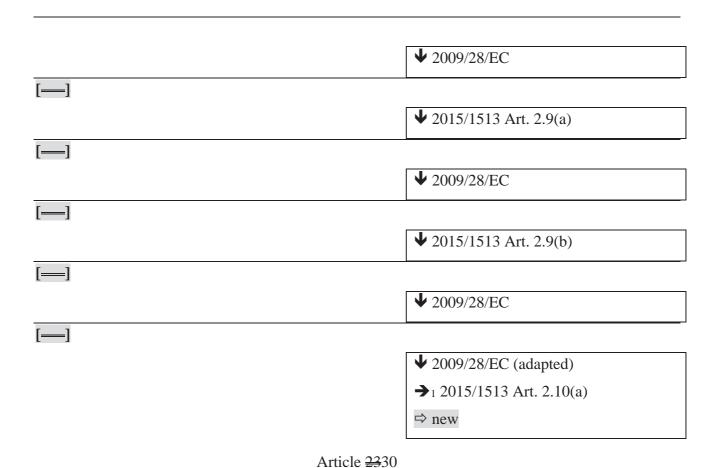
Article 2029

Implementing measures

The implementing measures referred to in the second subparagraph of Article $26(2)\frac{17(3)}{17(3)} \Rightarrow$ and $(6) \Leftrightarrow$, the third subparagraph of Article 18(3), Article 27 18(6), Article 18(8), Article 19(5), the first subparagraph of Article 28(5) \boxtimes and Article 28(6) \boxtimes 19(7), and Article 19(8) shall also take full account of the purposes of Article 7a of Directive 98/70/EC⁴³

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Directive 98/70/EC of the European Parliament and of the Council of 13 October 1998 relating to the quality of petrol and diesel fuels and amending Council Directive 93/12/EEC (OJ L 350, 28.12.1998, p. 58).



Monitoring and reporting by the Commission

1. The Commission shall monitor the origin of biofuels, and bioliquids ⇒ and biomass fuels ⇔ consumed in the Community ⊗ Union ⊗ and the impact of their production, including impact as a result of displacement, on land use in the Community ⊗ Union ⊗ and the main third countries of supply. Such monitoring shall be based on Member States' ⇒ integrated national energy and climate plans and corresponding progress ⇔ reports ⇒ required in Articles 3, 15 and 18 of Regulation [Governance] ⇔, submitted pursuant to Article 22(1), and those of relevant third countries, intergovernmental organisations, scientific studies and any other relevant pieces of information. The Commission shall also monitor the commodity price changes associated with the use of biomass for energy and any associated positive and negative effects on food security. →₁ ---

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2. The Commission shall maintain a dialogue and exchange information with third countries and biofuel, \Rightarrow bioliquid and biomass fuel \Leftarrow producers, consumer organisations and civil society concerning the general implementation of the measures in this Directive relating to biofuels, and bioliquids \Rightarrow and biomass fuels \Leftarrow . It shall, within that framework, pay particular attention to the impact \boxtimes that \boxtimes biofuel \Rightarrow and bioliquid \Leftarrow production may have on food prices.



39. In $\frac{2018}{2020}$ \Longrightarrow 2026 \bigotimes , the Commission shall present a Renewable Energy Roadmap for the post-2020 \Longrightarrow legislative proposal on the regulatory framework for the promotion of renewable energy for the post-2030 \leftrightarrows period.

That roadmap shall, if appropriate, be accompanied by proposals to the European Parliament and the Council for the period after 2020. The roadmap

⇒ This proposal

⇒ shall take into account the experience of the implementation of this Directive

⇒, including its sustainability and greenhouse gas saving criteria,

⇒ and technological developments in energy from renewable sources.

410. In 2021 ⋈ 2032 ⋈, the Commission shall present a report reviewing the application of this Directive.



Article 2531

Committee procedure

- 1. Except in the cases referred to in paragraph 2, t The Commission shall be assisted by the Committee on Renewable Energy Sources

 ⇒ Energy Union Committee

 ∴ That committee shall be a committee within the meaning of Regulation (EU) No 182/2011 of the European Parliament and of the Council

 ⇒ and work in the respective sectorial formations relevant for this Regulation

 ∴ .
- 2. For matters relating to the sustainability of biofuels and bioliquids, the Commission shall be assisted by the Committee on the Sustainability of Biofuels, [] Bioliquids and Biomass fuels. That committee shall be a committee within the meaning of Regulation (EU) No 182/2011.
- 2€. Where reference is made to this paragraph, Article 5 of Regulation (EU) No 182/2011 shall apply.

Where the Committee delivers no opinion, the Commission shall not adopt the draft implementing act and the third subparagraph of Article 5(4) of Regulation (EU) No 182/2011 shall apply.

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Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16
February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p. 13).

▶ 2015/1513 Art. 2.12 (adapted)

Article 25a32

Exercise of the delegation

- 1. The power to adopt delegated acts is conferred on the Commission subject to the conditions laid down in this Article.
- 2. The power to adopt delegated acts referred to in Articles $\frac{3(5)}{3} \boxtimes 7(5) \boxtimes 7(6)$; 19(11), 19(14), 25(6) \boxtimes and \boxtimes 28(5) \boxtimes $\frac{19(7)}{3}$ shall be conferred on the Commission for a period of five years from $\frac{5 \cdot \text{October } 2015}{3} \boxtimes 1^{\text{st}}$ January 2021 \boxtimes .
- 3. The delegation of power referred to in Articles $\frac{3(5)}{(5)} \boxtimes 7(5) \boxtimes 7(6)$; 19(11), 19(14), 25(6) \boxtimes and \boxtimes 28(5) \boxtimes $\frac{19(7)}{(5)}$

may be revoked at any time by the European Parliament or by the Council. A decision of revocation shall put an end to the delegation of the power specified in that decision. It shall take effect the day following the publication of the decision in the *Official Journal of the European Union* or at a later date specified therein. It shall not affect the validity of any delegated acts already in force.

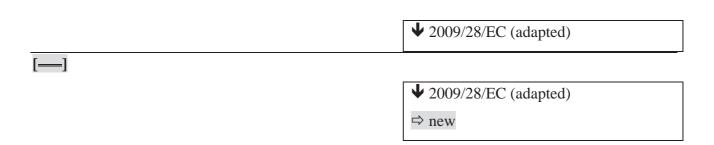
≥ 4. Before adopting a delegated act, the Commission shall consult experts designated by each Member State in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 on Better Law-Making. ≤

◆ 2015/1513 Art. 2.12 (adapted)

45. As soon as it adopts a delegated act, the Commission shall notify it simultaneously to the European Parliament and to the Council.

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Article 2733

Transposition

1. Without prejudice to Article 4(1), (2) and (3), Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with theis Directive \Rightarrow by 30 June 2021, at the latest. \Leftrightarrow by 5 December 2010 \Rightarrow They shall immediately communicate the text of those measures to the Commission \Leftrightarrow .

When Member States adopt \boxtimes those \boxtimes measures, they shall contain a reference to this Directive or shall be accompanied by such a reference on the occasion of their official publication. The methods of making such a reference shall be laid down by the Member States. \boxtimes They shall also include a statement that references in existing laws, regulations and administrative provisions to the Directives repealed by this Directive shall be construed as references to this Directive. Member States shall determine how such reference is to be made and how that statement is to be formulated. \boxtimes

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2. Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

new

Article 34

Repeal

Directive 2009/28/EC, as amended by the Directives listed in Annex XI, Part A is repealed with effect from 1 January 2021, without prejudice to the obligations of the Member States relating to the time-limits for the transposition into national law of the Directives set out in Annex XI, Part B and without prejudice to the obligations of Member States in 2020 as set out in Article 3(1) and Part A of Annex I of Directive 2009/28/EC.

References to the repealed Directive shall be construed as references to this Directive and shall be read in accordance with the correlation table in Annex XII.

↓ 2009/28/EC (adapted)

Article 2835

Entry into force

This Directive shall enter into force on the 20th day following its publication in the Official Journal of the European Union \boxtimes 1 January 2021 \boxtimes .

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Article 2936

Addressees

This Directive is addressed to the Member States.

Done at Brussels,

For the European Parliament

The President

For the Council

The President