

Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources (recast) (Text with EEA relevance)

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ANNEX I

NATIONAL OVERALL TARGETS FOR THE SHARE OF ENERGY FROM
RENEWABLE SOURCES IN GROSS FINAL CONSUMPTION OF ENERGY IN 2020

A. National overall targets

ANNEX II

NORMALISATION RULE FOR ACCOUNTING FOR ELECTRICITY
GENERATED FROM HYDROPOWER AND WIND POWER

The following rule shall be applied for the purposes of...

where:

N = reference year; QN(norm) = normalised electricity generated
by...

The following rule shall be applied for the purposes of...

where:

N = reference year; QN(norm) = normalised electricity generated
by...

The following rule shall be applied for the purposes of...

where:

N = reference year; QN(norm) = normalised electricity generated
by...

ANNEX III

ENERGY CONTENT OF FUELS

Fuel Energy content by weight (lower calorific value, MJ/kg)
Energy...

ANNEX IV

CERTIFICATION OF INSTALLERS

The certification schemes or equivalent qualification schemes
referred to in...

The certification or qualification process shall be transparent and
clearly...

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ANNEX V

RULES FOR CALCULATING THE GREENHOUSE GAS IMPACT OF BIOFUELS, BIOLIQUIDS AND THEIR FOSSIL FUEL COMPARATORS

- A. TYPICAL AND DEFAULT VALUES FOR BIOFUELS IF PRODUCED WITH NO...
- B. ESTIMATED TYPICAL AND DEFAULT VALUES FOR FUTURE BIOFUELS THAT WERE...
- C. METHODOLOGY
 - 1. Greenhouse gas emissions from the production and use of transport...
 - 2. Greenhouse gas emissions from biofuels and bioliquids shall be expressed...
 - 3. Greenhouse gas emissions savings from biofuels and bioliquids shall be...
 - 4. The greenhouse gases taken into account for the purposes of...
 - 5. Emissions from the extraction or cultivation of raw materials, eec,...
 - 6. For the purposes of the calculation referred to in point...
 - 7. Annualised emissions from carbon stock changes caused by land-use change,...
 - 8. The bonus of 29 g CO₂eq/MJ shall be attributed if evidence...
 - 9. 'Severely degraded land' means land that, for a significant period...
 - 10. The Commission shall review, by 31 December 2020, guidelines for the...
 - 11. Emissions from processing, ep, shall include emissions from the processing...
 - 12. Emissions from transport and distribution, etd, shall include emissions from...
 - 13. Emissions of the fuel in use, eu, shall be taken...
 - 14. Emission savings from CO₂ capture and geological storage, eccs, that...
 - 15. Emission savings from CO₂ capture and replacement, eccr, shall be...
 - 16. Where a cogeneration unit – providing heat and/or electricity to...
 - 17. Where a fuel production process produces, in combination, the fuel...
 - 18. For the purposes of the calculation referred to in point...
 - 19. For biofuels, for the purposes of the calculation referred to...
- D. DISAGGREGATED DEFAULT VALUES FOR BIOFUELS AND BIOLIQUIDS
- E. ESTIMATED DISAGGREGATED DEFAULT VALUES FOR FUTURE BIOFUELS AND BIOLIQUIDS THAT...

ANNEX VI

RULES FOR CALCULATING THE GREENHOUSE GAS IMPACT OF BIOMASS FUELS AND THEIR FOSSIL FUEL COMPARATORS

- A. Typical and default values of greenhouse gas emissions savings for...
- B. METHODOLOGY
 - 1. Greenhouse gas emissions from the production and use of biomass...
 - 2. Greenhouse gas emissions from biomass fuels shall be expressed as...
 - 3. Greenhouse gas emissions savings from biomass fuels shall be calculated...
 - 4. The greenhouse gases taken into account for the purposes of...
 - 5. Emissions from the extraction, harvesting or cultivation of raw materials,...
 - 6. For the purposes of the calculation referred to in point...
 - 7. Annualised emissions from carbon stock changes caused by land-use change,...
 - 8. The bonus of 29 g CO₂eq/MJ shall be attributed if evidence...
 - 9. 'Severely degraded land' means land that, for a significant period...

10. In accordance with point 10 of Part C of Annex V to...
 11. Emissions from processing, ep, shall include emissions from the processing...
 12. Emissions from transport and distribution, etd, shall include emissions from...
 13. Emissions of CO₂ from fuel in use, eu, shall be...
 14. Emission savings from CO₂ capture and geological storage, eccs, that...
 15. Emission savings from CO₂ capture and replacement, eccr, shall be...
 16. Where a cogeneration unit – providing heat and/or electricity to...
 17. Where a biomass fuel production process produces, in combination, the...
 18. For the purposes of the calculations referred to in point...
 19. For biomass fuels used for the production of electricity, for...
- C. DISAGGREGATED DEFAULT VALUES FOR BIOMASS FUELS
- Wood briquettes or pellets
 - Wood briquettes or pellets
 - Agriculture pathways
 - Disaggregated default values for biogas for the production of electricity...
 - Disaggregated default values for biomethane
- D. TOTAL TYPICAL AND DEFAULT VALUES FOR BIOMASS FUEL PATHWAYS
- Typical and default values – biogas for electricity
 - Typical and default values for biomethane
 - Typical and default values – biogas for electricity – mixtures...
 - Comments
 - Typical and default values – biomethane - mixtures of manure...

ANNEX VII

ACCOUNTING OF ENERGY FROM HEAT PUMPS

The amount of aerothermal, geothermal or hydrothermal energy captured by...

$$\text{ERES} = \text{Qusable} * (1 - 1/\text{SPF})$$

where

— Qusable the estimated total usable heat delivered by heat...

ANNEX VIII

PART A.

PROVISIONAL ESTIMATED INDIRECT LAND-USE CHANGE EMISSIONS FROM BIOFUEL, BIOLIQUID AND BIOMASS FUEL FEEDSTOCK (g CO₂eq/MJ)

PART B.

BIOFUELS, BIOLIQUIDS AND BIOMASS FUELS FOR WHICH THE ESTIMATED INDIRECT LAND-USE CHANGE EMISSIONS ARE CONSIDERED TO BE ZERO

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ANNEX IX

Part A. Feedstocks for the production of biogas for transport...
Algae if cultivated on land in ponds or photobioreactors;
Biomass...
Part B. Feedstocks for the production of biofuels and biogas...
Used cooking oil; Animal fats classified as categories 1 and...

ANNEX X

PART A

Repealed Directive with a list of the successive amendments thereto (referred to in Article 37)

PART B

Time-limits for transposition into national law

ANNEX XI

Correlation table

Directive 2009/28/EC This Directive Article 1 Article 1 Article
2,...

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- (1) [OJ C 246, 28.7.2017, p. 55.](#)
- (2) [OJ C 342, 12.10.2017, p. 79.](#)
- (3) Position of the European Parliament of 13 November 2018 (not yet published in the Official Journal) and decision of the Council of 4 December 2018.
- (4) 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](#)).
- (5) See Annex X, Part A.
- (6) Regulation (EU) 2018/1999 of the European Parliament and of the Council of 11 December 2018 on the Governance of the Energy Union and Climate Action, amending Regulations (EC) No 663/2009 and (EC) No 715/2009 of the European Parliament and of the Council, Directives 94/22/EC, 98/70/EC, 2009/31/EC, 2009/73/EC, 2010/31/EU, 2012/27/EU and 2013/30/EU of the European Parliament and of the Council, Council Directives 2009/119/EC and (EU) 2015/652 and repealing Regulation (EU) No 525/2013 of the European Parliament and of the Council (see page 1 of this Official Journal).
- (7) Regulation (EC) No 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](#)).
- (8) 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](#)).
- (9) 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](#)).
- (10) 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](#)).
- (11) [OJ L 198, 20.7.2006, p. 18.](#)
- (12) 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](#)).
- (13) 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](#)).
- (14) 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](#)).
- (15) 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](#)).
- (16) Regulation (EU) 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](#)).
- (17) Directive 2003/4/EC of the European Parliament and of the Council of 28 January 2003 on public access to environmental information and repealing Council Directive 90/313/EEC ([OJ L 41, 14.2.2003, p. 26](#)).
- (18) [OJ L 123, 12.5.2016, p. 1.](#)
- (19) 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](#)).
- (20) [OJ C 369, 17.12.2011, p. 14.](#)
- (21) Council Directive 2013/18/EU of 13 May 2013 adapting Directive 2009/28/EC of the European Parliament and of the Council on the promotion of the use of energy from renewable sources, by reason of the accession of the Republic of Croatia ([OJ L 158, 10.6.2013, p. 230](#)).