

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) 2016/1388. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

ANNEX I

Frequency ranges and time periods referred to in Article 12(1)

Synchronous area	Frequency range	Time period for operation
Continental Europe	47,5 Hz-48,5 Hz	To be specified by each TSO, but not less than 30 minutes
	48,5 Hz-49,0 Hz	To be specified by each TSO, but not less than the period for 47,5 Hz-48,5 Hz
	49,0 Hz-51,0 Hz	Unlimited
	51,0 Hz-51,5 Hz	30 minutes
Nordic	47,5 Hz-48,5 Hz	30 minutes
	48,5 Hz-49,0 Hz	To be specified by each TSO, but not less than 30 minutes
	49,0 Hz-51,0 Hz	Unlimited
	51,0 Hz-51,5 Hz	30 minutes
Great Britain	47,0 Hz-47,5 Hz	20 seconds
	47,5 Hz-48,5 Hz	90 minutes
	48,5 Hz-49,0 Hz	To be specified by each TSO, but not less than 90 minutes
	49,0 Hz-51,0 Hz	Unlimited
	51,0 Hz-51,5 Hz	90 minutes
	51,5 Hz-52,0 Hz	15 minutes
Ireland and Northern Ireland	47,5 Hz-48,5 Hz	90 minutes
	48,5 Hz-49,0 Hz	To be specified by each TSO, but not less than 90 minutes
	49,0 Hz-51,0 Hz	Unlimited
	51,0 Hz-51,5 Hz	90 minutes
Baltic	47,5 Hz-48,5 Hz	To be specified by each TSO, but not less than 30 minutes
	48,5 Hz-49,0 Hz	To be specified by each TSO, but not less than the period for 47,5 Hz-48,5 Hz
	49,0 Hz-51,0 Hz	Unlimited
	51,0 Hz-51,5 Hz	To be specified by each TSO, but not less than 30 minutes

The table shows the minimum time periods for which a transmission-connected demand facility, a transmission-connected distribution facility or a distribution system has to be capable of

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operating on different frequencies, deviating from a nominal value, without disconnecting from the network.

ANNEX II

Voltage ranges and time periods referred to in Article 13(1)

Synchronous area	Voltage range	Time period for operation
Continental Europe	0,90 pu-1,118 pu	Unlimited
	1,118 pu-1,15 pu	To be specified by each TSO but not less than 20 minutes and not more than 60 minutes
Nordic	0,90 pu-1,05 pu	Unlimited
	1,05 pu-1,10 pu	60 minutes
Great Britain	0,90 pu-1,10 pu	Unlimited
Ireland and Northern Ireland	0,90 pu-1,118 pu	Unlimited
Baltic	0,90 pu-1,118 pu	Unlimited
	1,118 pu-1,15 pu	20 minutes

The table shows the minimum time periods during which a transmission-connected demand facility, a transmission-connected distribution facility or a transmission-connected distribution system has to be capable of operating for voltages deviating from the reference 1 pu value at the connection point without disconnecting from the network where the voltage base for pu values is at or above 110 kV and up to (not including) 300 kV.

Synchronous area	Voltage range	Time period for operation
Continental Europe	0,90 pu-1,05 pu	Unlimited
	1,05 pu-1,10 pu	To be specified by each TSO but not less than 20 minutes and not more than 60 minutes
Nordic	0,90 pu-1,05 pu	Unlimited
	1,05 pu-1,10 pu	To be specified by each TSO but not more than 60 minutes
Great Britain	0,90 pu-1,05 pu	Unlimited
	1,05 pu-1,10 pu	15 minutes
Ireland and Northern Ireland	0,90 pu-1,05 pu	Unlimited
Baltic	0,90 pu-1,097 pu	Unlimited
	1,097 pu-1,15 pu	20 minutes

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The table shows the minimum time periods during which a transmission-connected demand facility, a transmission-connected distribution facility or a transmission-connected distribution system has to be capable of operating for voltages deviating from the reference 1 pu value at the connection point without disconnecting from the network, where the voltage base for pu values is from 300 kV to 400 kV (including).

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Changes and effects yet to be applied to :

- Regulation revoked by [S.I. 2019/533 reg. 5\(b\)](#) (This amendment not applied to [legislation.gov.uk](#). Reg. 5 revoked on the day before IP completion day by [S.I. 2019/1104](#), regs. 1(2), 2)
- Art. 1(2) word omitted by [S.I. 2020/1006 Sch. 2 para. 1\(2\)\(b\)](#)
- Art. 1(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 1\(2\)\(a\)](#)
- Art. 1(3) words omitted by [S.I. 2020/1006 Sch. 2 para. 1\(3\)](#)
- Art. 2 words inserted by [S.I. 2020/1006 Sch. 2 para. 1\(4\)\(a\)\(i\)](#)
- Art. 2 words inserted by [S.I. 2020/1006 Sch. 2 para. 1\(4\)\(a\)\(iv\)](#)
- Art. 2 words omitted by [S.I. 2020/1006 Sch. 2 para. 1\(4\)\(a\)\(iii\)](#)
- Art. 2 words substituted by [S.I. 2020/1006 Sch. 2 para. 1\(4\)\(a\)\(ii\)](#)
- Art. 3(1) words omitted by [S.I. 2020/1006 Sch. 2 para. 2\(2\)](#)
- Art. 4(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 3\(3\)\(b\)](#)
- Art. 4(3) word substituted by [S.I. 2020/1006 Sch. 2 para. 3\(4\)\(a\)](#)
- Art. 4(3) words inserted by [S.I. 2020/1006 Sch. 2 para. 3\(4\)\(b\)](#)
- Art. 4(3) words inserted by [S.I. 2020/1006 Sch. 2 para. 3\(4\)\(c\)](#)
- Art. 4(5) word omitted by [S.I. 2020/1006 Sch. 2 para. 3\(6\)\(a\)](#)
- Art. 4(5) words omitted by [S.I. 2020/1006 Sch. 2 para. 3\(6\)\(b\)](#)
- Art. 6(1) words omitted by [S.I. 2020/1006 Sch. 2 para. 4\(2\)\(b\)](#)
- Art. 6(1) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(2\)\(a\)](#)
- Art. 6(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(3\)\(a\)](#)
- Art. 6(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(3\)\(b\)](#)
- Art. 6(3) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(4\)\(a\)](#)
- Art. 6(4) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(5\)](#)
- Art. 6(5) word omitted by [S.I. 2020/1006 Sch. 2 para. 4\(6\)](#)
- Art. 6(6) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(7\)](#)
- Art. 6(9) words substituted by [S.I. 2020/1006 Sch. 2 para. 4\(8\)](#)
- Art. 7(1)(2) substituted by [S.I. 2020/1006 Sch. 2 para. 5](#)
- Art. 8(1) words substituted by [S.I. 2020/1006 Sch. 2 para. 6\(2\)](#)
- Art. 8(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 6\(3\)](#)
- Art. 9(1) words substituted by [S.I. 2020/1006 Sch. 2 para. 7\(2\)](#)
- Art. 9(2) words omitted by [S.I. 2020/1006 Sch. 2 para. 7\(3\)](#)
- Art. 10 omitted by [S.I. 2020/1006 Sch. 2 para. 7\(4\)](#)
- Art. 11(2) words inserted by [S.I. 2020/1006 Sch. 2 para. 8\(2\)\(a\)](#)
- Art. 11(2) words omitted by [S.I. 2020/1006 Sch. 2 para. 8\(2\)\(c\)](#)
- Art. 11(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 8\(2\)\(b\)](#)
- Art. 11(3) words inserted by [S.I. 2020/1006 Sch. 2 para. 8\(3\)\(a\)](#)
- Art. 11(3) words omitted by [S.I. 2020/1006 Sch. 2 para. 8\(3\)\(b\)](#)
- Art. 11(3) words substituted by [S.I. 2020/1006 Sch. 2 para. 8\(3\)\(c\)](#)
- Art. 11(4) words omitted by [S.I. 2020/1006 Sch. 2 para. 8\(4\)\(a\)](#)
- Art. 11(4) words substituted by [S.I. 2020/1006 Sch. 2 para. 8\(4\)\(b\)](#)
- Art. 13(4)(5) omitted by [S.I. 2020/1006 Sch. 2 para. 9](#)
- Art. 15(1) word substituted by [S.I. 2020/1006 Sch. 2 para. 10\(2\)](#)
- Art. 15(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 10\(3\)](#)
- Art. 29(2) word substituted by [S.I. 2020/1006 Sch. 2 para. 12\(a\)](#)
- Art. 48(4) words omitted by [S.I. 2020/1006 Sch. 2 para. 14\(3\)](#)
- Art. 48(5) words omitted by [S.I. 2020/1006 Sch. 2 para. 14\(4\)](#)
- Art. 50(1) words substituted by [S.I. 2020/1006 Sch. 2 para. 16\(2\)](#)
- Art. 50(2) omitted by [S.I. 2020/1006 Sch. 2 para. 16\(3\)](#)
- Art. 51(1) substituted by [S.I. 2020/1006 Sch. 2 para. 17\(2\)](#)
- Art. 51(2) words substituted by [S.I. 2020/1006 Sch. 2 para. 17\(3\)](#)

- Art. 52(10) words omitted by S.I. 2020/1006 Sch. 2 para. 18(b)
- Art. 52(10) words substituted by S.I. 2020/1006 Sch. 2 para. 18(a)
- Art. 53(9) word inserted by S.I. 2020/1006 Sch. 2 para. 19(2)(a)
- Art. 53(9) words omitted by S.I. 2020/1006 Sch. 2 para. 19(2)(b)
- Art. 53(10) words omitted by S.I. 2020/1006 Sch. 2 para. 19(3)(c)
- Art. 53(10) words substituted by S.I. 2020/1006 Sch. 2 para. 19(3)(a)
- Art. 53(10) words substituted by S.I. 2020/1006 Sch. 2 para. 19(3)(b)
- Art. 53(11) words omitted by S.I. 2020/1006 Sch. 2 para. 19(4)(b)
- Art. 53(11) words substituted by S.I. 2020/1006 Sch. 2 para. 19(4)(a)
- Art. 54(1) substituted by S.I. 2020/1006 Sch. 2 para. 20
- Art. 55 omitted by S.I. 2020/1006 Sch. 2 para. 21
- Art. 58(1) words substituted by S.I. 2020/1006 Sch. 2 para. 23(2)
- Art. 58(2) words omitted by S.I. 2020/1006 Sch. 2 para. 23(3)
- Art. 58(3) words substituted by S.I. 2020/1006 Sch. 2 para. 23(4)(a)
- Art. 58(3) words substituted by S.I. 2020/1006 Sch. 2 para. 23(4)(b)

Changes and effects yet to be applied to the whole legislation item and associated provisions

- Title 6 omitted by S.I. 2020/1006 Sch. 2 para. 22
- Signature words omitted by S.I. 2020/1006 Sch. 2 para. 24
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(i)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(ii)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(iii)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(iv)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(v)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(vi)
- Annex 1 word substituted by S.I. 2020/1006 Sch. 2 para. 25(c)(vii)
- Annex 1 words omitted by S.I. 2020/1006 Sch. 2 para. 25(a)
- Annex 1 words omitted by S.I. 2020/1006 Sch. 2 para. 25(b)
- Annex 1 words omitted by S.I. 2020/1006 Sch. 2 para. 25(d)
- Annex 1 words omitted by S.I. 2020/1006 Sch. 2 para. 25(e)
- Annex 2 word substituted by S.I. 2020/1006 Sch. 2 para. 26(a)(iii)(aa)
- Annex 2 word substituted by S.I. 2020/1006 Sch. 2 para. 26(a)(iii)(bb)
- Annex 2 word substituted by S.I. 2020/1006 Sch. 2 para. 26(b)(iii)(aa)
- Annex 2 word substituted by S.I. 2020/1006 Sch. 2 para. 26(b)(iii)(bb)
- Annex 2 word substituted by S.I. 2020/1006 Sch. 2 para. 26(b)(iii)(cc)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(a)(i)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(a)(ii)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(a)(iv)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(a)(v)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(b)(i)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(b)(ii)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(b)(iv)
- Annex 2 words omitted by S.I. 2020/1006 Sch. 2 para. 26(b)(v)
- Art. 2(5) words substituted by S.I. 2020/1006 Sch. 2 para. 1(4)(b)(i)
- Art. 2(5) words substituted by S.I. 2020/1006 Sch. 2 para. 1(4)(b)(ii)
- Art. 3(2)(a) words substituted by S.I. 2020/1006 Sch. 2 para. 2(3)
- Art. 4(1)(a)(iii) word omitted by S.I. 2020/1006 Sch. 2 para. 3(2)(b)(i)
- Art. 4(1)(a)(iii) words omitted by S.I. 2020/1006 Sch. 2 para. 3(2)(b)(ii)
- Art. 4(1)(a)(ii) word omitted by S.I. 2020/1006 Sch. 2 para. 3(2)(a)(i)
- Art. 4(1)(a)(ii) words omitted by S.I. 2020/1006 Sch. 2 para. 3(2)(a)(ii)
- Art. 4(1)(b) words substituted by S.I. 2020/1006 Sch. 2 para. 3(2)(c)
- Art. 4(2)(b) words substituted by S.I. 2020/1006 Sch. 2 para. 3(3)(a)(i)
- Art. 4(2)(b) words substituted by S.I. 2020/1006 Sch. 2 para. 3(3)(a)(ii)
- Art. 4(2)(b) words substituted by S.I. 2020/1006 Sch. 2 para. 3(3)(a)(iii)
- Art. 4(4)(b) word omitted by S.I. 2020/1006 Sch. 2 para. 3(5)(a)

- Art. 4(4)(b) words omitted by S.I. 2020/1006 Sch. 2 para. 3(5)(b)
- Art. 6(3)(d) words omitted by S.I. 2020/1006 Sch. 2 para. 4(4)(b)
- Art. 6(3)(f) word substituted by S.I. 2020/1006 Sch. 2 para. 4(4)(c)
- Art. 19(1)(c)(i) word substituted by S.I. 2020/1006 Sch. 2 para. 11
- Art. 29(2)(f) word substituted by S.I. 2020/1006 Sch. 2 para. 12(b)
- Art. 29(2)(g) word substituted by S.I. 2020/1006 Sch. 2 para. 12(c)(i)
- Art. 29(2)(g) word substituted by S.I. 2020/1006 Sch. 2 para. 12(c)(ii)
- Art. 42(3)(a) words substituted by S.I. 2020/1006 Sch. 2 para. 13
- Art. 48(3)(b) words omitted by S.I. 2020/1006 Sch. 2 para. 14(2)
- Art. 49(2)(c) words substituted by S.I. 2020/1006 Sch. 2 para. 15