



Draft National Electricity Amendment (Clarifying mandatory primary frequency response obligations for bi-directional plant) Rule 2024

The Australian Energy Market Commission makes the following Rule under the National Electricity Law to the extent applied by:

- (a) the *National Electricity (South Australia) Act 1996* of South Australia;
- (b) the *Electricity (National Scheme) Act 1997* of the Australian Capital Territory;
- (c) the *Electricity - National Scheme (Queensland) Act 1997* of Queensland;
- (d) the *National Electricity (New South Wales) Act 1997* of New South Wales;
- (e) the *Electricity - National Scheme (Tasmania) Act 1999* of Tasmania;
- (f) the *National Electricity (Victoria) Act 2005* of Victoria;
- (g) the *National Electricity (Northern Territory) (National Uniform Legislation) Act 2015* of the Northern Territory; and
- (h) the *Australian Energy Market Act 2004* of the Commonwealth.

Anna Collyer
Chairperson
Australian Energy Market Commission

Draft National Electricity Amendment (Clarifying mandatory primary frequency response obligations for bi-directional plant) Rule 2024

1 Title of Rule

This Rule is the *Draft National Electricity Amendment (Clarifying mandatory primary frequency response obligations for bi-directional plant) Rule 2024*.

2 Commencement

Schedule 1 of this Rule commences operation on 3 June 2024.

Schedule 2 of this Rule commences operation on 8 June 2025.

3 Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 1.

4 Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 2.

Schedule 1 Amendment to the National Electricity Rules

(Clause 3)

[1] Clause 4.4.2 Operational frequency control requirements

In clause 4.4.2(c1), after "clause 4.4.2A(c)" insert " and any exemption or variation approved by *AEMO* under clause 4.4.2B".

[2] Clause 4.4.2 Operational frequency control requirements

In clause 4.4.2(c1), omit "*Scheduled Generator* and *Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator* and *Scheduled Integrated Resource Provider*".

[3] Clause 4.4.2 Operational frequency control requirements

In clause 4.4.2(c1), omit "its *generating system*" and substitute "its *scheduled generating unit, semi-scheduled generating unit* or *scheduled bidirectional unit*".

[4] Clause 4.4.2 Operational frequency control requirements

In clause 4.4.2(c1), omit "that *generating system*" and substitute "that unit".

[5] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(1), omit "a requirement that *Scheduled Generators* and *Semi-Scheduled Generators* set their *generating systems* to operate in *frequency response mode* within".

[6] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(1)(i), omit "*Scheduled Generators* and *Semi-Scheduled Generators*" and substitute "a *scheduled generating unit, semi-scheduled generating unit* or *scheduled bidirectional unit*".

[7] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(2), omit "*Scheduled Generator* or *Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider*".

[8] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(2), omit "*scheduled generating system or semi-scheduled generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[9] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(3), omit "*scheduled generating system or semi-scheduled generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[10] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(b)(4), omit "*Scheduled Generators and Semi-Scheduled Generators*" and substitute "*Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers*".

[11] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c), omit "*Scheduled Generator or Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider*".

[12] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c)(1), after "*generating system*" insert "*or integrated resource system*".

[13] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c)(2), omit "*generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[14] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c)(2), omit "*the Scheduled Generator's or Semi-Scheduled Generator's*".

[15] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(d), omit "*Scheduled Generators and Semi-Scheduled Generators*" and substitute "*Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers*".

[16] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a), omit "*Scheduled Generator's or Semi-Scheduled Generator's generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[17] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(1), omit "*generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[18] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(2), omit "*generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[19] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(3), omit "*generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*".

[20] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(4), omit "*Scheduled Generator or Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider*".

[21] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(4), omit "*Scheduled Generator's or Semi-Scheduled Generator's generating system*" and substitute "*Scheduled Generator's scheduled generating unit, Semi-Scheduled Generator's semi-scheduled generating unit or Scheduled Integrated Resource Provider's scheduled bidirectional unit*".

[22] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(4), omit "*generating system*" and substitute "*scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit*", wherever occurring.

[23] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(b), omit "*Scheduled Generator or Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider*".

[24] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(b), omit "a *Scheduled Generator's or Semi-Scheduled Generator's generating system*" and substitute "the *Scheduled Generator's scheduled generating unit, Semi-Scheduled Generator's semi-scheduled generating unit or Scheduled Integrated Resource Provider's scheduled bidirectional unit*".

[25] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(c), omit "*Scheduled Generator or Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider*".

[26] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(e), after "*scheduled generating unit*" insert ", *semi-scheduled generating unit*".

[27] Clause 5.3.9 Alteration of a generating system or integrated resource system

Omit clause 5.3.9(a1) and substitute:

- (a1) This clause 5.3.9 does not apply in relation to any modifications made to a *scheduled generating unit, semi-scheduled generating unit or scheduled bidirectional unit* by a *Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* in order to comply with the *Primary Frequency Response Requirements* as applicable to that unit.

[28] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(8), after "*generating unit*" insert ", *generating system*".

[29] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(8), after "*bidirectional unit*" insert "or *integrated resource system* including the status of the frequency controller".

[30] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11, in the first and second **Note**, omit "in relation to the operation of their *generating systems*" and substitute "and *Integrated Resource Providers* in relation to the operation of their *scheduled generating units, semi-scheduled generating units and scheduled bidirectional units*".

Schedule 2 Amendment to the National Electricity Rules

(Clause 4)

[1] Clause 4.4.2 Operational frequency control requirements

Omit clause 4.4.2(c1) (excluding the **Note**) and substitute:

(c1) subject to clause 4.4.2A(c) and any exemption or variation approved by *AEMO* under clause 4.4.2B, each:

- (1) *Scheduled Generator, Semi-Scheduled Generator and Scheduled Integrated Resource Provider* that has received a *dispatch instruction* in accordance with clause 4.9.2 to generate a volume greater than zero MW or to consume electricity other than as an *auxiliary load*; and
- (2) *Scheduled Integrated Resource Provider* that has received a *dispatch instruction* in accordance with clause 4.9.3A to provide a *regulation service*,

must operate its *scheduled generating unit, semi-scheduled generating unit* or *scheduled bidirectional unit* in accordance with the *Primary Frequency Response Requirements* as applicable to that unit;