NCESS Final Service Specification

Network Support Services for Metropolitan Capacity Expansion

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1. Introduction

1.1 Purpose and scope

- 1.1.1 Western Power has prepared this NCESS Draft Service Specification in accordance with clause 3.11B.1 and 3.11B.5 of the Wholesale Electricity Market Rules (WEM Rules). This NCESS Service Specification includes:
 - a. the service requirements;
 - b. the expected technical capability of a facility or equipment that may be able to provide the service;
 - c. the network locations where the service is to be provided;
 - d. the maximum quantity of the service required;
 - e. the expected commencement and duration of the service;
 - f. the reasonable expectation of the frequency of service utilisation, the expected duration of each utilisation and when the service is expected to be utilised during typical days;
 - g. any operational requirements or limitations;
 - h. the material contractual terms associated with the NCESS, including required pricing structure;
 - i. the selection criteria that may apply to the NCESS Submissions; and
 - j. any other relevant matters.

1.2 Definitions

- 1.2.1 Terms defined in the *Electricity Industry Act 2004*, the WEM Regulations and the WEM Rules have the same meaning in this document unless the context requires otherwise.
- 1.2.2 Capitalised terms used in this document have the meaning given in the WEM Rules unless specified in Table 1.

Table 1: Definitions and acronyms

Term	Meaning
Activation	The period in the which the Service is operating under the terms of the NCESS contract
Activation Notice	Means a notice issued to a NCESS provider for the Service to operate in accordance with this NCESS Service Specification and an NCESS Contract.
Activation Period	The period from 1 st Dec one year to 1 st April the following year
Activation Fee	The fee for the operation of the Network Support Service per MWh
Approval to Operate	Western Power's approval for a behind the meter, embedded generation system to operate
Availability Fee	The fee for making the network support service available per MW
Contract Term	The period (specified in paragraph 2.5 of this document) during which the NCESS provider must make the Service available.



Term	Meaning
Maximum NCESS Contract Amount	The maximum amount that is payable to the NCESS provider under the NCESS Contract on the assumed basis that the Service is available during each Dispatch Interval in the Availability Period.
MW	Mega Watt
MWhr	Mega Watt hour
Network Support Service (NSS)	The service provided by a supplier under the NCESS Contract
Service	Has the meaning given in paragraph 2 of this document.
Service Equipment	The Registered Facility or Unregistered Equipment from which the Service is required to be provided under the NCESS Contract.
Service Period	Has the meaning given in paragraph 2 of this document.
Service Quantity	The quantity of the Service that the NCESS provider is required to provide under the NCESS Contract.
Unregistered Equipment	Means any facility or equipment that is not registered and not required to be registered under this document.
WEM Rules	Wholesale Electricity Market Rules



2. Service details

2.1 Service requirements

2.1.1 This NCESS Final Service Specification is for Network Support Services in Perth Metropolitan locations as defined in section 2.3. The Service is required for energy supply or reduction of energy withdrawal at the distribution high voltage feeder level to reduce feeder loading below planning limits in accordance with table 2 and Appendix A-1. This Service opportunity is open to both existing and new facilities and the facility is not required to be registered with AEMO.

2.2 Expected technical capability of a facility or equipment that may be able to provide the Service

- 2.2.1 The expected technical capability of a facility or equipment that may be able to provide the NSS must be sufficient to form and sustain an energy supply or reduction of energy withdrawal in line with the following requirements:
 - providing the energy supply or reduction of energy withdrawal as agreed in the NCESS Contract, within the Activation Period and on issuing of an Activation Notice.
 - sustaining the NSS for the period as specified for each service in Appendix A-1
 - sustaining the NSS at a minimum of 95% of the service quantity required for each NSS location.
- 2.2.2 A NCESS provider is required to comply with all applicable WEM Rules.

2.3 Service locations

The NSS is required at the locations shown in table 2 and with further specification in appendix A-1. The facilities providing the NSS must be electrically connected to the Distribution feeders in table 2 via the high and / or the low voltage network. Where the NSS will be provided by small number of large Distributed Energy Storage Systems, the Grid connection point of the systems will be subject to Western Power approval with respect to suitability to meet the NSS service requirements. Further specific Western Power network information can be provided on request.

Table 2: NSS locations and Service requirements

Distribution feeder	Location	2025/26	2026/27	2027/28
RO515	Rockingham	0.9 MW	1.0 MW	1.2 MW
H514	Bassendean	1.2 MW	1.4 MW	1.5 MW
MO337F	Inglewood	0.55 MW	0.65 MW	0.75 MW
NB519	North Beach	1.2 MW	1.4 MW	1.5 MW
NB520	North Beach	1.0 MW	1.0 MW	1.0 MW
TOTAL		4.85 MW	5.45 MW	5.95 MW



2.4 Service Quantity required

- 2.4.1 Submission(s) in response to this NCESS Final Service Specification must specify a Service Quantity.
- 2.4.2 The Service Quantity must be in accordance with the provisions specified for each location in appendix A-1.

2.5 Contract Term and expected Service utilisation

- 2.5.1 The Contract Term must commence no later than 1st December 2025 and end on 1st April 2028. A contract duration of 1 to 3 years, within the term start and finish dates, will be considered.
- 2.5.2 The NCESS provider must make the NSS available for Western Power to call upon as required.
- 2.5.3 The duration of each Activation is 2 hours, as per the specification in appendix A-1, with up to a maximum of 20 Activations per each Activation Period.



3. Operational requirements or limitations

3.1 Control and communication requirements

- 3.1.1 The NCESS provider must provide a communication process and system that:
 - a. Accepts or rejects an Activation Notice from Western Power
 - b. Provide the verification data detailed in 3.1.2
 - c. Is able to safely integrate with Western Power, enabling Western Power's receipt of the data covered in section 3.1.2.
- 3.1.2 The NCESS provider must provide the following verification data of the Service provided within 5 business days of the service provision.

Time series data for all NMIs providing the Service identifying the NSS location / feeder, for each time interval commencing 30mins prior to the NSS Activation start until the end, including:

- Time stamp (interval start)
- NMI
- DER type
- DER Control signal
- DER active power
- Total NSS active power
- 3.1.3 The energy supply or reduction of energy withdrawal as agreed in the NCESS Contract takes priority over other system services, however can be provided coincident to other systems services.
- 3.1.4 Western Power will provide an Activation Notice at least 24 hours in advance of the Service being required.



3.2 Minimum availability requirement

- 3.2.1 A minimum availability of 95% is required.
- 3.2.2 The NCESS provider must notify Western Power within 2 business days of any unavailability periods, after changing or modifying the Service and/or equipment in a way that reduces or could reasonably be expected to reduce the availability of the Service.
- 3.2.3 Western Power will require the NCESS provider (at the NCESS provider's cost) to conduct a test of the Service and/or equipment ahead of the NCESS Contract start date and ahead of each 1 December for the duration of the contract, to demonstrate that the Service complies with the NCESS Contract and with applicable standards, including but not limited to; the WEM rules, NQRS code and the Western Power technical rules.
- 3.2.4 The NCESS provider must take remedial action in the event of Service unavailability.
- 3.2.5 In the event the Service is unavailable for Activation under the NCESS contract, there will be a reduction in payments by Western Power depending on the duration of the unavailability¹.
- 3.2.6 The NCESS provider must provide the participating NMIs associated with providing the Service aligned to the capacity agreed in the NCESS contract.
- 3.2.7 The NCESS provider must provide equipment information to show the service is capable of providing the Service Quantity.

Excluding acceptable planned outages to be agreed between Western Power and the NCESS provider as part of contract negotiations.



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4. General

4.1 Material contract terms

4.1.1 All items identified in this NCESS Service Specification are material contract terms.

4.2 Conditions Precedent

4.2.1 The NCESS Contract will be subject to the following conditions precedent, which must be satisfied by the date specified in paragraph 2.5:

By Western Power:

a. Western Power has received funding approval for the NCESS Contract;

By the NCESS provider:

- a. all approvals for any facility to be constructed by the NCESS provider for the purpose of providing NSS, must be obtained by the NCESS provider;
- b. a connection contract permitting the facility to be connected to Western Power's network must be executed by the NCESS provider;
- the equipment has completed all tests for the contracted capacity as required by Western Power and to Western Power's satisfaction, to demonstrate compliance with the Service requirements;
- d. each connection that forms part of the Service has been issued:
 - i. an Interim Approval to Operate or an Approval to Operate
- e. the NCESS provider and the facility have met all requirements under the WEM Rules to entitle the NCESS provider to provide the Services; and
- f. a scheduled maintenance plan for the Contract Term commencing on the date specified in paragraph 2.5 has been provided by the NCESS provider for the Service.
- 4.2.2 Western Power must determine satisfaction (or otherwise) of each condition precedent within 3 business days of the date Western Power considers (at Western Power's sole discretion) that all information relevant to that condition precedent has been provided or becomes available to Western Power.
- 4.2.3 To avoid doubt, Western Power may request further information from the NCESS provider at any time for the purposes of paragraph 4.2.2.
- 4.2.4 If Western Power determines under paragraph 4.2.3 that the condition precedent is satisfied, Western Power must set the date of satisfaction as the date when the condition precedent was satisfied, as reasonably determined by Western Power.



4.3 No exclusivity

4.3.1 The NCESS provider acknowledges and agrees that Western Power may engage any number of other contractors to provide services that are the same or materially equivalent to the Service during the Contract Term.

4.4 Extent of liability

4.4.1 Separate liability limits will apply for Western Power and the NCESS provider.

4.4.2 For Western Power:

- (a) subject to paragraph 4.4.2(b) and other than in respect of any unpaid fees, Western Power's liability is limited to the prescribed maximum amount for the purposes of section 126 of the *Electricity Industry Act 2004* and regulation 52 of the WEM Regulations.
- (b) Western Power is not liable for:
 - (i) indirect damages or losses;
 - (ii) loss of market, opportunity or profit (whether direct or indirect); or
 - (iii) damages or losses to the extent that they arise from the NCESS provider's failure to act in accordance with the NCESS Contract, a law (including the WEM Rules) or good electricity industry practice.

4.4.3 For the NCESS provider:

- (a) subject to paragraph 4.4.3(b), the total amount recoverable from the NCESS provider in respect of any and all claims arising out of any one or more events during the Contract Term with respect to, arising from, or in connection with, the NCESS Contract or the provision of the Service is limited to the lesser of the NCESS Contract value and \$5 million.
- (b) the NCESS provider is not liable for:
 - (i) indirect damages or losses;
 - (ii) loss of market, opportunity or profit (whether direct or indirect); or
 - (iii) damages or losses to the extent that they arise from Western Power's failure to act in accordance with the NCESS Contract, a law (including the WEM Rules) or good electricity industry practice.

4.5 Termination

4.5.1 Western Power may terminate the NCESS Contract if a condition precedent is not satisfied by the condition precedent satisfaction date and Western Power (in its sole discretion) does not waive it.



5. Payment

5.1 Monthly fixed fee

5.1.1 The monthly fixed fee is the Availability Fee for the relevant month, less any reductions for unavailability.

5.2 Monthly variable fee

5.2.1 The monthly variable fee is the sum of the Activation Fees relating to the operation of the Service.

5.3 Total monthly fee

5.3.1 The total monthly fee is the sum of the monthly fixed fee and the monthly variable fee.



6. Selection Criteria

6.1 Compliance and Assessment

6.1.1 In accordance with clauses 3.11B.8, 3.11B.9 and 3.11B.11 of the WEM Rules, Western Power will apply the selection criteria summarised in Table 3 for NCESS Submissions.

Table 3: Selection criteria

Criterion	Description	Weighting
Valid submission	As required under clause 3.11.B.8 of the WEM Rules, the submission complies with the NCESS Submission form 3.11B.7 and contains information requested.	Pass / Fail (1/0)
Compliance with specification	As required under clause 3.11B.10(a) of the WEM Rules, the Service complies with the specification as described in the tender and as required in column D of the NCESS Submission form.	Pass/Fail (1/0)
Evidenced delivery dates	As required under clause 3.11B.10(b)(i) of the WEM Rules, sufficient evidence has been provided to support NCESS delivery dates for new Services and/or equipment.	Pass/Fail (1/0)
Environmental Approvals	As required under clause 3.11B.10(b)(ii) of the WEM Rules, sufficient Environmental Approvals have been granted.	Pass/Fail N/A or (1/0)
Project methodology	Western Power's assessment of the project methodology and milestones, and likelihood that the project will achieve key dates.	10%
Technical capabilities	Assessment of technical requirements as outlined in this Service Specification. The ideal NCESS provider would meet the Service requirements whilst offering enhanced system benefits, and system supporting capabilities.	40%
WAIPS	Assessment on NCESS provider's Western Australian Industry Participation Plan to maximise opportunities for local business. Refer to 6.2.2.	10%
Value for Money	Western Power's assessment of value for money based on the NCESS provider's ability to meet the requirements and pricing.	40%



6.2 Due Diligence and Legislative Requirements

- 6.2.1 For cyber security purposes, any NCESS provider is required, where applicable, to adhere to the AESCSF when the NCESS provider or any of its subcontractors develops, accesses, transmits, processes, stores or otherwise handles Western Power sensitive operational information or other sensitive data.
- 6.2.2 Western Australia Industrial Participation Plan Strategy (WAIPS). NCESS provider must complete all applicable sections of the template Participation Plan in order to demonstrate the NCESS provider's commitment in relation to the participation by the local industry in the performance of the NCESS provider's obligations under the Contract. The Standard Full Participation Plan template can be downloaded from: https://industrylink.wa.gov.au/participation-plans. Guidance on "How to Complete a Participation Plan" is available from: https://industrylink.wa.gov.au/participation-plans/how-to-complete-a-participation-plan. A full Participation Plan has been requested, the NCESS provider is required to complete all questions except question 4 in Section A. Your completed Participation Plan should be titled: [Tender Number Tender Title Participation Plan NCESS provider name]. The document uploaded as your response must be in the same MS Word format as the reference document provided.
- 6.2.3 Where deemed necessary, a due diligence review may be undertaken on compliant NCESS Submissions. Evaluation scores may be moderated as a result of this process. The due diligence review may include:
 - WHSE prequalification
 - Financial due diligence
 - Reference checks
 - Site audits
 - Overall risk assessment of the proposal



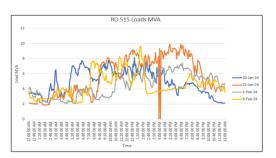
Appendix A

A.1 Service locations and specification

The locations of the Network Support Services required under this NCESS Draft Service Specification are all located in the Perth metro area with the specification as shown.

A.1.1 Service requirement RO515 Rockingham

NCESS 2024 | Capacity NCESS – RO515





Firm Service for Feeder RO515	25/26	26/27	27/28	
NSS Active Power	0.9 MW	1.0 MW	1.2 MW	
NSS Energy	0.5 MWh	1.0 MWh	1.0 MWh	
Availability Period	1 December – 1 April	1 December – 1 April	1 December – 1 April	
Activation Window	4:30pm – 8:30pm	4:30pm – 8:30pm	4:30pm – 8:30pm	
Activation Duration	2hrs	2hrs	2hrs	
Number of NSS Calls	up to 20 calls within the availability period	up to 20 calls within the availability period	up to 20 calls within the availability period	
Location	NMIs within RO515 feeder			
Operational Notice Period	>24 hrs			
	Availability fee (\$ per Contract)			
Pricing		Energy Fee (\$ per MWh)		
	Service Levels			
Performance	Non -Performance discount/penalty to availability fee			
Verification of Service	Market Participant to provide DER telemetry data for all events			



A.1.2 Service requirement H514 Bassendean

NCESS 2024 | Capacity NCESS - H514

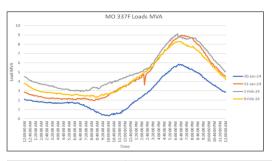


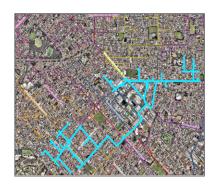


Firm Service for Feeder H514	25/26	26/27	27/28	
NSS Active Power	1.2 MW	1.4 MW	1.5 MW	
NSS Energy	2.4 MWh	2.7 MWh	3.1 MWh	
Availability Period	1 December – 1 April	1 December – 1 April	1 December – 1 April	
Activation Window	4:30pm - 8:30pm	4:30pm - 8:30pm	4:30pm – 8:30pm	
Activation Duration	2hrs	2hrs	2hrs	
Number of NSS Calls	up to 20 calls within the availability period	up to 20 calls within the availability period	up to 20 calls within the availability period	
Location		NMIs within H514 feeder		
Operational Notice Period		>24 hrs		
		Availability fee (\$ per Contract)		
Pricing		Energy Fee (\$ per MWh)		
	Service Levels			
Performance	Non -Performance discount/penalty to availability fee			
Verification of Service	Market Participant to provide DER telemetry data for all events			

A.1.3 Service requirement MO337F Inglewood

NCESS 2024 | Capacity NCESS – MO337F



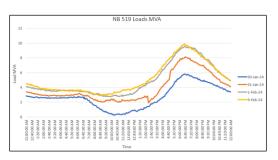


Firm Service for Feeder MO337F	25/26	26/27	27/28	
NSS Active Power	0.55 MW	0.65 MW	0.75 MW	
NSS Energy	1.4 MWh	1.8 MWh	2.2 MWh	
Availability Period	1 December – 1 April	1 December – 1 April	1 December – 1 April	
Activation Window	4:30pm – 8:30pm	4:30pm – 8:30pm	4:30pm – 8:30pm	
Activation Duration	2hrs	2hrs	2hrs	
Number of NSS Calls	up to 20 calls within the availability period	up to 20 calls within the availability period	up to 20 calls within the availability period	
Location	NMIs within MO337 feeder			
Operational Notice Period	>24 hrs			
		Availability fee (\$ per Contract)		
Pricing	Energy Fee (\$ per MWh)			
	Service Levels			
Performance	Non -Performance discount/penalty to availability fee			
Verification of Service	Market Participant to provide DER telemetry data for all events			



A.1.4 Service requirement NB519 North Beach

NCESS 2024 | Capacity NCESS - NB519





Firm Service for Feeder NB519	25/26	26/27	27/28
NSS Active Power	1.2 MW	1.4 MW	1.5 MW
NSS Energy	2.4 MWh	3.2 MWh	3.6 MWh
Availability Period	1 December – 1 April	1 December – 1 April	1 December – 1 April
Activation Window	4:30pm – 8:30pm	4:30pm – 8:30pm	4:30pm – 8:30pm
Activation Duration	2hrs	2hrs	2hrs
Number of NSS Calls	up to 20 calls within the availability period	up to 20 calls within the availability period	up to 20 calls within the availability period
Location	NMIs within NB519 feeder		
Operational Notice Period	>24 hrs		
Pricing	Availability fee (\$ per Contract) Energy Fee (\$ per MWh)		
	Service Levels		
Performance	Non -Performance discount/penalty to availability fee		
Verification of Service	Market Participant to provide DER telemetry data for all events		

A.1.5 Service requirement NB520 North Beach

NCESS 2024 | Capacity NCESS - NB520





Firm Service for Feeder NB520	25/26	26/27	27/28	
NSS Active Power	1.0 MW	1.0 MW	1.0 MW	
NSS Energy	1.5 MWh	1.5 MWh	1.5 MWh	
Availability Period	1 December – 1 April	1 December – 1 April	1 December – 1 April	
Activation Window	4:30pm – 8:30pm	4:30pm – 8:30pm	4:30pm – 8:30pm	
Activation Duration	2hrs	2hrs	2hrs	
Number of NSS Calls	up to 20 calls within the availability period	up to 20 calls within the availability period	up to 20 calls within the availability period	
Location	NMIs within NB520 feeder			
Operational Notice Period	>24 hrs			
		Availability fee (\$ per Contract)		
Pricing	Energy Fee (\$ per MWh)			
	Service Levels			
Performance	Non -Performance discount/penalty to availability fee			
Verification of Service	Market Participant to provide DER telemetry data for all events			

