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Connection Plan

Hunter Central Coast Renewable Energy Zone

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Ausgrid

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Contents

Introduction

Ausgrid has developed this Connection Plan to outline our approach to managing connections within the HCC REZ. Connecting within the HCC REZ differs from connecting in other parts of Ausgrid's regulated network. We have refined and optimised the connection process to maximise the advantages of the REZ declaration and facilitate the rapid integration of new renewable energy resources into the power system.

The Ausgrid HCC REZ connection process builds on the standard NER Chapter 5 framework by introducing several enhancements specifically for the Renewable Energy Zone: it offers an opt-in batch processing approach that allows multiple projects to be assessed together for system impacts, provides early and detailed network information to proponents and supplies specific guidelines for Negotiated Access Standards (NAS) to streamline negotiations.

This Connection Plan summarises:

- how resourcing for the connection process will be provided
- the differences between the HCC REZ connections process and the existing Chapter 5 connections process
- how proponents who have already commenced the connection process (and will connect to HCC REZ infrastructure) will be managed
- how critical security services (such as system strength) will be provided in the HCC REZ
- provides guidelines to support proponents who wish to record Negotiated Access Standards (NAS) in their Generator Performance Standards (GPS), and
- explains Ausgrid's approach to co-ordinating and optimising connection points and connection infrastructure.

As the Network Operator selected by EnergyCo to deliver the HCC REZ, Ausgrid is obligated to provide a Connection Plan and make commitments to deliver certain activities as part of the HCC REZ connection process.

Technical Standards and References

A selection of technical references, standards and guidelines that will support proponents through the connection process are listed below in Table 1 and Table 2.

Table 1: Ausgrid Technical Standards and References

Ausgrid Documentation	
Network Standards and Technical Requirements	
NS 194 Embedded Generators	NS 194B Guidelines for Rotating machines connected to the Ausgrid Network
NS 195 High Voltage Customer Connections	NS 238 Supply Quality
NS 143 Easements, Leases and Rights of Way	NS 178 Secondary Systems Requirements for Major Substations
Network standards	ES3 Metering Installation Requirements Part A
Process Information	
NER Chapter 5 Connections - Generator Connection Process Guideline	HCC REZ Batch Process – Participation Technical Requirements
HCC REZ Batch Process – Commercial and Contractual Documentation	HCC REZ Negotiated Access Standards Guideline

Table 2: Third Party Technical Standards and References

External Documentation	
AEMO Documentation	
Generator Connection Application Checklist	Generator Performance Standards (GPS) Template
Modelling requirements (website)	Power System Model Guidelines
Guidelines for Assessment of Generator Performance Standards	System Strength Impact Assessment Guidelines (website)
Dynamic Model Acceptance Test Guideline	System Strength Withstand SCR Methodology Review
Power System Stability Guidelines	Generator Connection R1 Submission Checklist
Other References	
National Electricity Rules	

Abbreviations

AAS Automatic Access Standard

AEMO Australian Energy Market Operator

AER Australian Energy Regulator

EOI Expression of Interest

HCC Hunter Central Coast

GPS Generator Performance Standards

MAS Minimum Access Standard

NAS Negotiated Access Standards

NEM National Electricity Market

NER National Electricity Rules

NSP Network Service Provider

OPDMS Operations and Planning Data Management System

REZ Renewable Energy Zone

RNI REZ Network Infrastructure

HCC REZ Connections Team

Ausgrid expects that there will be significant interest from proponents in the HCC REZ. This interest will be in addition to (as opposed to displacing) interest in connecting to the remainder of the Ausgrid network. In view of this, Ausgrid has established dedicated resources within existing teams to manage connections in the HCC REZ as follows:

- HCC REZ Customer Connections Team: responsible for the end-to-end proponent connection process, including third party interfaces with AEMO.
- HCC REZ Asset Investment Planning Team: responsible for the provision of technical network data for generator connections, Ausgrid's due diligence assessments against the National Electricity Rules (**NER**) Schedule 5.2 for generator performance and commissioning support.
- HCC REZ Network Interface Commissioning Project Engineer: to work alongside the Compliance Officers responsible for commissioning of network assets and provide generator commissioning support to the Transmission Substation team.

These dedicated resources will be supported by Ausgrid's established engineering functions who are best placed to provide specific support to the HCC REZ. This includes:

- Design and Engineering Teams: responsible for specification of primary and secondary systems equipment for connection interfaces.
- Transmission Substations Teams: facilitate the commissioning of the generators at the connection interface and undertake R2 testing.
- Compliance Officers: managing the energisation and commissioning phases of the generation and connections assets

All the dedicated HCC REZ resources, existing Connections Teams and the Design and Engineering Team will sit within the Customer Assets and Digital group. This provides not only a consistent approach to connections management but also continuity throughout the connections process. Dedicated resources with generation experience will support proponents from feasibility and project development through to commissioning.

HCC REZ Connection Process

Ausgrid's connection process for the HCC REZ takes a whole-of-system network planning, connections and design approach. This includes using network and performance standard design and modelling that can better integrate proponents during the connection process.

This process improves upon the existing National Electricity Market (**NEM**) connection process and reflects the extensive work currently underway in the Connections Reform Initiative and Connections Reform Roadmap, as well as considering the AEMO Access Standards Review and the implementation of REZ processes across the NEM. Ausgrid has maintained a focus on the security needs of the NEM, supporting proponents to deliver their technical performance requirements and simplifying and expediting the assessment process.

This has focussed on:

- Increasing information provision to proponents by providing data packs as early as practical in the process, enabling proponents to have early access to accurate information to inform their developments.
- Developing Negotiated Access Standards **(NAS)** Guidelines to aid proponents in proposing suitable NAS in the event their connection is unable to meet the Automatic Access Standard (**AAS**).
- Maintaining the existing Chapter 5 Process that many proponents are familiar with, allowing the connection process to progress more traditionally (although with increased information provision and guidance around NAS).
- Offering a batch process by considering multiple generation proponents at once to allow parallel projects to take each other into account at an earlier stage, helping to reduce risks to system security and performance and avoid the need to re-run complex power system studies.

The process is intended to be highly collaborative between Ausgrid, proponents and AEMO. Ausgrid has socialised the HCC REZ batch process with critical stakeholders to ensure it is robust and can be practically implemented by all parties. Stakeholder feedback has been incorporated into this process to reflect the timelines, resources and needs of all parties. Under this process, Ausgrid will take a greater role in the technical assessment for connection applications, allowing greater control and ownership of the process. It also fully leverages Ausgrid's capabilities as an NSP and its delegations under the NER and various guidelines.

Information Provision

Ausgrid has put substantial effort into its development activities for the HCC REZ, including developing the relevant processes, guidelines and technical documentation to support the HCC REZ connection process.

Ausgrid will use this to provide detailed information as early as practical in the connection process, enabling proponents to have early access to accurate information to inform their developments. Proponents can expect the following information to be available to them at the relevant points in the connection process:

- HCC REZ solution overview: a detailed description of Ausgrid's HCC REZ solution. This includes providing information including the solution's capacity, characteristics, intended operating arrangements, expected delivery dates, asset locations, line routes and provision of proponent connection points. This also includes information about existing infrastructure that forms part of the critical flow paths and any "enabling infrastructure" to be built in support of this solution by Transgrid.
- Connection process documentation: a Connection Plan, including links to standalone supporting documents such as Batch Process General Framework, Batch Process Technical Requirements, Negotiated Access Standards Guidelines, the existing Ausgrid Chapter 5 Connection Process, etc.
- Technical standards and guidelines: describing how the physical connections to the Ausgrid network will be agreed in the HCC REZ. Connection design will be consistent with the relevant NER requirements and Ausgrid Network Standards (complying with connection arrangements, overhead

line and substation specifications, metering, protection, SCADA and communication requirements, etc.).

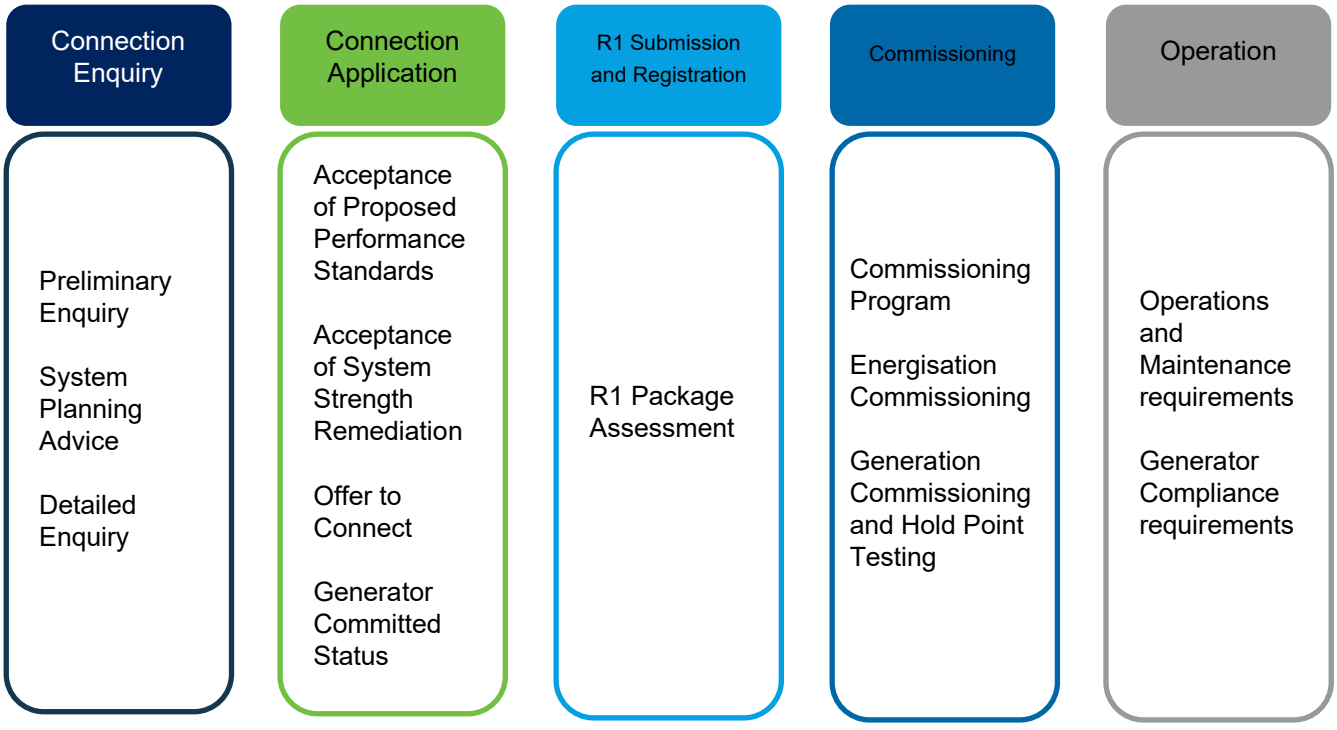
- HCC REZ models: identifying what models are available to proponents, how these models can be used, for what purpose and providing advice on how any HCC REZ models provided by Ausgrid can be integrated into the wider NEM Operations and Planning Data Management System **(OPDMS)** snapshots. This includes considerations to allow proponents to complete steady-state, transient stability or dynamic stability assessments.
- Commercial and contractual documentation: including pro-forma or template agreements and contracts that proponents will need to enter at various stages of the connection process.

Ausgrid will continue to consider the information provided to proponents to ensure that it continues to meet the needs of proponents considering connection to the HCC REZ.

Chapter 5 Process

For all proponents connecting to the HCC REZ, the traditional Chapter 5 process is available to manage the connection process. This is supported by the additional information provision and Negotiated Access Standards Guidelines developed as part of the HCC REZ Connection Process.

Ausgrid has documented their approach to the Chapter 5 Connection Process in the *NER Chapter 5 Connections - Generator Connection Process Guideline*. This document describes this process from start to end, providing proponents information about the various stages of the connection process, including:



All proponents connecting to the HCC REZ (including those who participate in the batch process) will use different elements of the Chapter 5 Connection Process at different stages of their connection journey and the batch process has been developed with this as the foundations for improvement.

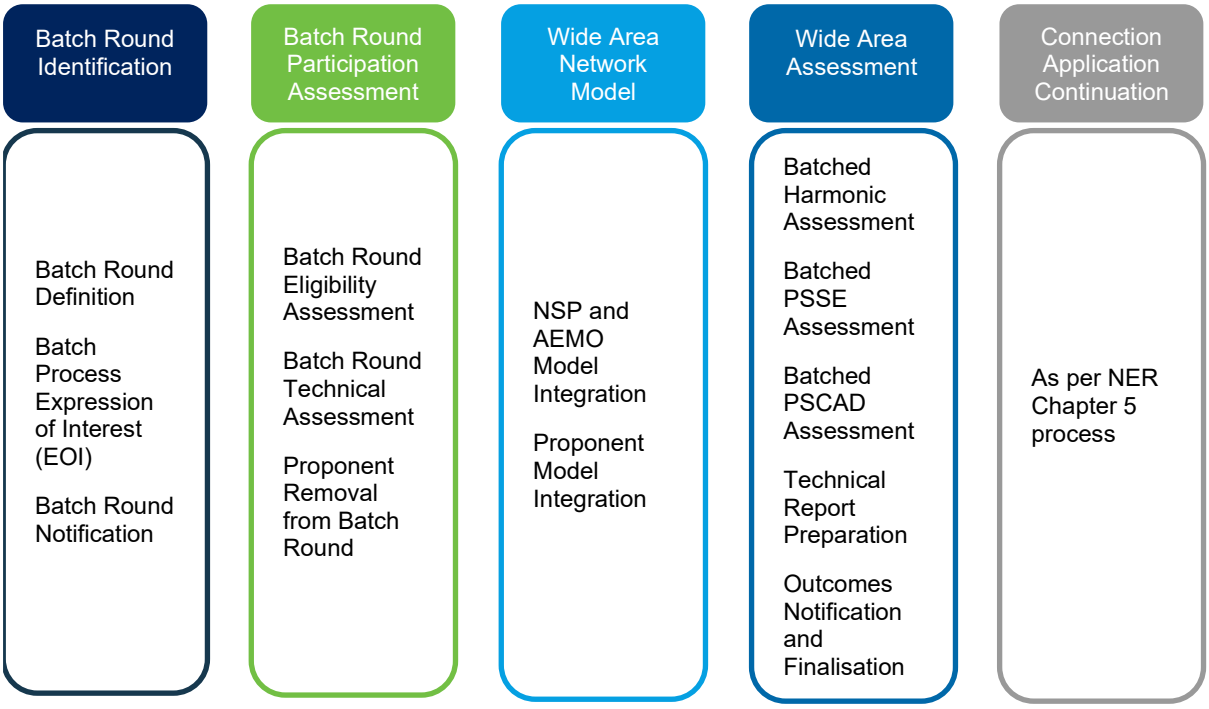
Opt-In Batch Process

To expedite the connections process, Ausgrid has developed a batch process which specifically targets the connection application and registration stages of the generator connections processes for improvement. Participation in the batch process is voluntary and on an opt-in basis and those who do not opt-in will continue to progress their connection under the Chapter 5 process.

Under the existing Chapter 5 process, projects normally don't take each other into account until the application stage has been completed with the issuing of the 5.3.4A letter. This can cause risks to system security and performance and may require the re-running of complex studies and result in impacts to timelines. Using a batched assessment process (considering multiple generation proponents at once) allows parallel projects to take each other into account at an earlier stage, helping to reduce these risks.

Ausgrid will check the wide area impacts of the combined effects of the generation in a batch assessment process. This process includes undertaking system strength and system stability assessments as well as assessing and coordinating the tuning of the individual generators within the batch as required to manage wide area performance. This allows projects to be developed and progressed through the connections process by Ausgrid as distinct batches aligned to the delivery of HCC REZ components.

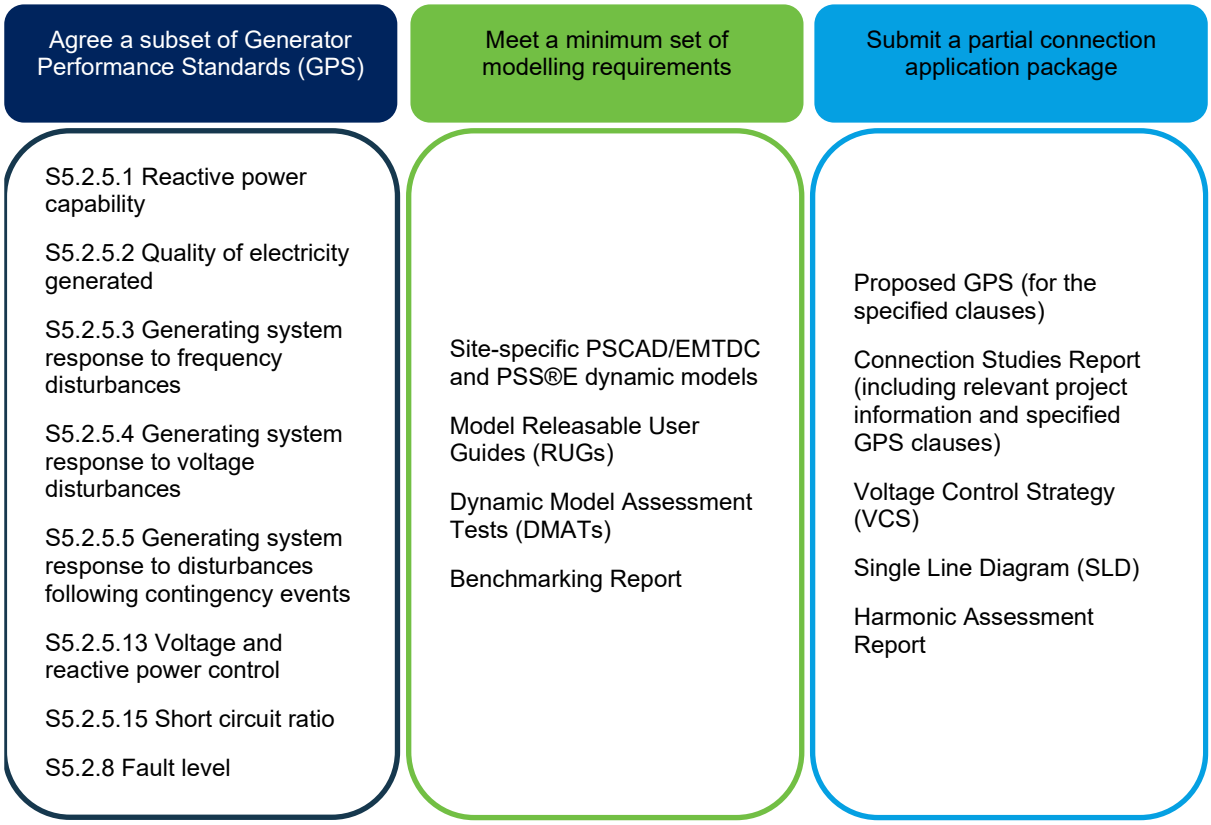
Ausgrid has developed the *HCC REZ Batch Process – General Framework* to carefully consider how a batch process would be practically implemented in the HCC REZ and ensure all aspects of the process are fully documented. This framework describes the overall, end-to-end process for conducting batched wide area assessments, detailing each step of the batch process, including:



The *Batch Process – General Framework* identifies the various inputs, outputs and timelines for each step. It also provides guidance to help proponents effectively engage in the batch process. To participate in the batch process, proponents must satisfy a set of technical requirements outlined in the Batch Process – Technical Requirements document. These requirements establish the minimum standards for connection application development necessary to:

- Integrate the proponent's plant into a wide area network model,
- Complete the required batch assessments, and
- Ensure results are both meaningful and accurate.

The technical requirements are designed to strike a balance between ensuring the accuracy and reliability of the wide area assessment results and avoiding undue burden on proponents. This approach encourages broad participation in each batch round. In summary, proponents must:



Ausgrid will work collaboratively with proponents to assess submissions, reach agreement on performance (where required) and to progress submissions to a point where they are able to comply with the technical requirements and participate in the batch process.

Change Requests Following Commissioning

Proponents may need to make changes to their plant or agreed GPS following the completion of various commissioning activities. If a proponent identifies a change is required, Ausgrid will work with them to:

- identify the appropriate change process to be used under NER (e.g., clause 5.3.9, clause 4.14(p) or clause S5.2.2) to reflect the change required
- respond to any change requests made in a manner consistent with the relevant change process clause
- where the change will require changes to or re-assessment of performance standards, work with the proponent (and AEMO as appropriate) to:
- identify clause-specific expectations, including remodelling requirements to demonstrate performance
- review the technical approach provided by the proponent as part of the change, and
- review any technical studies and reports, including undertaking any required due diligence assessments
- enable the change process to be completed as efficiently as possible and allow proponent to continue commissioning and R2 model validation.

Where a proponent undertakes changes that result in proposed amendments to the agreed performance standards or adversely impacts system strength, Ausgrid will assess these amendments consistent with the requirements of NER clauses 5.3.4A and 5.3.4B respectively. These stages of the connection process (including assessment timelines) are described in section 3.3 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.

Connection Process Approach

Ausgrid will approach the connections process for the HCC REZ flexibly to cater for the various scenarios under which proponents will be connecting and provide the most efficient and effective pathway to connection.

The regulatory frameworks that govern the connection process (prior to the finalisation of the HCC REZ solution) impacts the way in which proponents can commence the connection process. For example:

- Ausgrid may accept Connection Enquiries or Connection Applications for connections to existing infrastructure which will form part of the HCC REZ. These may be accepted in parallel with the finalisation of the HCC REZ infrastructure and nomination of Ausgrid as the Network Operator and follow the existing Chapter 5 process of the NER.
- Ausgrid may accept Connection Enquiries or Connection Applications from proponents who will be connecting to new infrastructure developed as part of the HCC REZ. These connections (as intended) will be subject to the final approval of the HCC REZ solution by the AER.

This may lead to two types of proponents when Ausgrid's network solution is formally approved by the AER and Ausgrid is contracted as the HCC REZ Network Operator.

Identification of HCC REZ Connections

Ausgrid needs to identify proponents whose connection will be made to the REZ Network Infrastructure (RNI). The HCC REZ has been defined with a defined geographical boundary (as determined by EnergyCo1). Within this geographic boundary, the RNI has been specified to include "all planned, new and existing infrastructure in the geographical area", with the specific exclusion of the Sydney Ring transmission network infrastructure project (this exclusion includes the Hunter Transmission Project and may include the Waratah Super Battery)2. The geographical boundaries of the HCC REZ and the existing electricity infrastructure is shown in Figure 1.

Figure 1: HCC REZ Boundaries and Existing Infrastructure

[1] *Hunter-Central Coast REZ: Methodology for defining REZ geographical area,* https://www.energyco.nsw.gov.au/sites/default/files/2022-09/hcc-rez-methodology-geographic-area.pdf

[2] Hunter Central Coast EZ, accessed 13/01/2025, https://www.energyco.nsw.gov.au/hcc-rez

Proponents whose connections will be made to the RNI are deemed HCC REZ Connections and will be eligible to participate in and be managed under the HCC REZ Connections Process. Proponents whose connections do not meet these criteria will be managed through the existing Ausgrid Chapter 5 Connection Process.

When a proponent submits a Connection Enquiry, Ausgrid will determine if the proponent is a HCC REZ Connection and advise accordingly in their response.

Proponents with an existing Connection Enquiry or Application

As the development of the HCC REZ has been well signalled to the industry and utilises a substantial amount of existing Ausgrid infrastructure to deliver the stated transfer capacity, proponents may have already progressed their connection to the HCC REZ prior to the formal approval of the Ausgrid solution.

After the formal approval of the HCC REZ, proponents who have submitted a Connection Enquiry or Connection Application for a connection that will form part of the HCC REZ will have the flexibility to continue their existing connection approach (i.e. purely under Chapter 5 of the NER), or opt-in to elements of the specific HCC REZ connection process where it provides them a benefit (e.g. opting to participate in a Batch Round or leverage the Negotiated Access Standards Guidelines).

Ausgrid does not intend to slow, pause or halt these connections as the HCC REZ is finalised and will continue to meet its obligations under the NER.

Proponents who have not formally commenced the Connections Process

Proponents who have not formally commenced the Connections Process when the HCC REZ is formally approved will be required to follow and be managed under the HCC REZ Connection Process. As stated in section 0, the traditional Chapter 5 process is available to manage the connection process. This is supported by the additional information provision and Negotiated Access Standards Guidelines developed as part of the HCC REZ Connection Process. Proponents have the ability to opt-in to the batch process (where applicable).

HCC REZ Security Services

Contributions to System Security Arrangements

Unlike other New South Wales REZ (such as Central West Orana), the HCC REZ is not subject to Access Scheme and therefore is not subject to Access Rights. As a result, the HCC REZ does not consider the centralised provision of security services such as system strength, reactive power support or harmonic mitigation. Proponents connecting to the HCC REZ are responsible for self-mitigation of adverse impacts or provision of these services as required to support their connection. Specifically, this means that

- system strength is managed consistently with the NER (i.e. as per 5.3.4B of the NER),
- self-mitigation of harmonics to within the individual harmonic allocations and planning levels is required (i.e. as per Schedule 5.2 of the NER),
- proponents are required to provide adequate reactive power to support their intended power transfer levels (i.e. as per Schedule 5.2 of the NER).

Ausgrid will endeavour to use the batch process (as appropriate) to optimise plant tuning, consider the collective impacts of multiple proponents and manage overall system needs. While the batch process may allow for some level of system optimisation, critical requirements of the NER (such as the requirements of 5.3.4A and 5.3.4B) cannot be avoided or diminished.

Negotiated Access Standards Guidelines

Ausgrid has developed guidelines for NAS as part of agreeing GPS in the connection process. This is to aid proponents in proposing suitable NAS in the event their connection is unable to meet the AAS.

The *Negotiated Access Standards Guideline* is intended to support Connection Applicants in this process, by helping them to identify NAS that Ausgrid and AEMO (as applicable) are more likely to consider appropriate for acceptance. This is intended to facilitate a streamlined approach to GPS negotiations and speed up performance standards agreement and the issuing of the 5.3.4A letter.

The guideline has been developed considering two key factors:

1. The regulatory framework under which the HCC REZ will be delivered (i.e. the absence of an Access Scheme and Access Rights, consistent with the Chapter 5 Process)
2. The AEMO Access Standards Review (2023) and associated Rule Change proposals

In the *Negotiated Access Standards Guideline,* NAS guidelines have been developed for performance standards as relevant. The table below outlines for which performance standards a guideline has been developed.

NER Clause	Technical Requirement	Negotiated Access Standard Guidance	AEMO Advisory Matter
S5.2.5.1	Reactive Power Capability	Recommended NAS as per AEMO RCP	Yes
S5.2.5.4	Generating System Response to Voltage Disturbances	Recommended NAS as per AEMO RCP	Yes
S5.2.5.5	Generating System Response to Disturbances following Contingency Events	Recommended NAS as per AEMO RCP	Yes
S5.2.5.7	Partial Load Rejection	Recommended NAS as per AEMO RCP	Yes
S5.2.5.10	Protection to Trip Plant for Unstable Operation	Recommended NAS as per AEMO RCP	Yes

The NAS guidelines proposed in this document remain consistent with the existing access standard negotiating framework. The NAS identified in this guideline sits between the existing Minimum Access Standard (**MAS**) and the AAS.

This guideline does not override the 5.3.4A process and Connection Applicants may propose (and justify) performance standards that fall anywhere between the MAS and AAS. Similarly, Ausgrid (and AEMO as applicable) will assess and consider proposed NAS on their individual merits, as related to the specific needs to the power system at the proposed connection point.

Connection Coordination and Optimisation

Ausgrid has defined how the components of the HCC REZ need to be developed to deliver the required 1000 MW transfer capacity. As part of developing its solution, Ausgrid has collaborated with prospective connection proponents to allow the details of the infrastructure and the system to be fully refined and optimised. This includes determining future requirements for substations and switching stations, connection locations, line routes, generation capacity to inform the specifics of network and system development.

Identifying Proponent Connection Options

While the efficient overall development of the HCC REZ (including both shared and connection infrastructure) has been considered in the specification of HCC REZ infrastructure, the specific connection options for a specific proponent still require careful consideration.

As part of the Preliminary Enquiry stage of the existing Chapter 5 Connection Process (refer to section 3.2.1 of *NER Chapter 5 Connections - Generator Connection Process Guideline)*, when providing a Preliminary Enquiry response, Ausgrid will consider and identify the possible connection options for proponents. This will include an overview of any available options for connection to Ausgrid's network and other information (as per Schedule 5.4A of the NER), including for each connection point option:

(1) example single line diagram and relevant protection systems and control systems used by existing connection arrangements;

(2) a description of the characteristics of supply; and

(3) an indication of the likely impact on terms and conditions of connection,

In this response, Ausgrid always endeavours to identify the most efficient and effective connection options for a proponent, considering the development location, size and technology, capacity, nearby infrastructure and high-level connection infrastructure costs.

Following receiving their Preliminary Enquiry response, proponents can elect to undertake a further detailed assessment of the identified connection options by requesting a System Planning Advice (refer to section 3.2.2 *NER Chapter 5 Connections - Generator Connection Process Guideline*). This is an optional, fee-for-service step that can be beneficial in quantifying the anticipated scope and costs associated with different connection options.

Facilitation of Proponent Collaboration for Infrastructure Sharing

Opportunities for efficient infrastructure sharing have been considered in the HCC REZ solution through the sizing and locations of the HCC REZ infrastructure, specifically the locations of the hub substations and the number of bays they contain.

A review of the proponents who have expressed an interest in the HCC REZ shows that their connection locations are sufficiently diverse and shared connection infrastructure will not be a likely development outcome. However, if proponent connection infrastructure sharing would result in a reduction in the number of connection assets built (i.e. two proponents sharing a line), Ausgrid will facilitate discussions between the proponents to reach a mutually agreeable outcome.

This can be managed on a case-by-case basis and will be aligned to the Ausgrid Connection Policy. For further information, please reach out to the HCC REZ Connections Team as per section 0.

Further Information

Ausgrid are determined to provide the best possible customer experience for proponents seeking connection to the Ausgrid network. While the Connection Plan provides a comprehensive overview of the process for connecting the HCC REZ, proponents are welcome to speak with our Connections Team to seek and further clarifications or answers to questions that remain.

Ausgrid's HCC REZ Connections Team are best contacted at REZconnections@ausgrid.com.au.

Appendix A - Additional Requirements for HCC Network Operator

As the Network Operator selected by EnergyCo to deliver the HCC REZ, Ausgrid is committed to delivering certain activities as part of the HCC REZ connection process. These activities, shown in table 3 below, are in addition to the requirements of the existing Chapter 5 connection process and will support proponents in achieving the various stages of the connection process.

Table 3: Connection Process - Additional Requirements for HCC Network Operator

Requirement Reference	HCC REZ Requirement	Details and Supporting Information
Pre-Enquiry		
Requirement a)	Develop preliminary acceptable range criteria for NAS	Acceptable range criteria for NAS are provided in the *HCC REZ Negotiated Access Standards Guidelines* and are summarised in section 0.
Connection Enquiry		
Requirement a)	Ensure any response to proponents provides acceptable negotiated access standard	Acceptable range criteria for NAS are provided in the *HCC REZ Negotiated Access Standards Guidelines* and will be provided to proponents with their Enquiry response.
Requirement b)	Advise proponents of expected contribution to system strength remediation (if required)	System strength is managed as per 5.3.4B of the NER and information will be provided to proponents with their Enquiry response. Further information is available in section 3.3.2 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.
Connection Application		
Requirement a)	Endeavour to complete the Connection Application phase in no more than three rounds	Ausgrid will endeavour to complete the Connection Application phase in no more than three rounds.
Requirement b)	Propose model revisions to proponents to achieve Generator Performance Standards	Ausgrid will propose model revisions (where appropriate) to achieve Generator Performance Standards
Requirement c)	Endeavour to undertake batch processing (where applicable) of wide area assessment (subject to AEMO approval/agreement);	Ausgrid has developed a batch process to undertake wide area assessments. This is summarised in section 0, with further information available in the *HCC REZ Batch Process – General Framework*
Requirement d)	Endeavour to deliver faster approval of connection applications for the benefit of NSW electricity customers	Ausgrid has developed a specific HCC REZ Connection Process which aims to accelerate the connections process as much as possible. This is described in section 0.

Connection Agreement		
Requirement	Comply with Clause 16.5 of Project Deed	Ausgrid's existing Connection Agreement will be used for connections in the HCC REZ. This agreement is consistent with all applicable Electricity Laws. A model Connection Agreement (*Connection Offer – Negotiated Ongoing Connection Contract for Embedded Generators*) is accessible and is described in section 7.1 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.
Construction		
Requirement	Coordinate witness and hold points as required	Ausgrid will coordinate witnessing and hold point testing as required. This is described in section 3.5 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.
Registration		
Requirement a)	Publish a Registration Guideline	AEMO is primarily responsible for the Registration of generators in the NEM and have provided a *Generator Connection R1 Submission Checklist.* Ausgrid has published its own guidance for Registration in section 3.4 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.
Requirement b)	Endeavour to complete the Registration phase in no more than three rounds	Ausgrid will endeavour to complete the Registration phase in no more than three rounds.
Requirement c)	Propose model revisions to proponents to achieve Generator Performance Standards (if required)	Ausgrid will propose model revisions (where appropriate) to achieve Generator Performance Standards if required.
Requirement d)	Endeavour to undertake batch processing (where applicable) of wide area assessment (subject to AEMO approval/agreement).	Ausgrid has developed a batch process to undertake wide area assessments. This is summarised in section 0, with further information available in the *HCC REZ Batch Process – General Framework.*
Commissioning		
Requirement a)	Publish a Commissioning Guideline	Ausgrid has published its own guidance for Commissioning in section 3.5 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*. This includes references to AEMO documentation as relevant.
Requirement b)	Provide high level typical assessment approaches for NER clauses S5.2.5-S5.2.8 of the NER with the proponent if a change request is raised	Ausgrid's management of change requests during or following commissioning are described in section 0 below.
Requirement c)	Respond to a change request made under a NER clause 5.3.9(a) process;	

Requirement d)	Maintain records of compliance monitoring program	On-going maintenance and operational requirements for proponents are documented in their Connection Agreement. Proponents must also continuously comply with their generator performance obligations under the NER. Compliance monitoring requirements are further described in section 3.6 of the *NER Chapter 5 Connections - Generator Connection Process Guideline*.
Requirement e)	Respond as soon as possible to schedule any additional commissioning testing required to complete an R2 model and model validation report.	Ausgrid will respond as soon as possible to schedule any additional commissioning testing required to complete an R2 model and model validation report.