

# 2025 Certified Reserve Capacity Information Session

Presented by  
WA Capacity Investment & Assessment  
19 March 2025



**We acknowledge the Traditional Custodians of the land, seas and waters across Australia. We honour the wisdom of Aboriginal and Torres Strait Islander Elders past and present and embrace future generations.**

We acknowledge that, wherever we work, we do so on Aboriginal and Torres Strait Islander lands. We pay respect to the world's oldest continuing culture and First Nations peoples' deep and continuing connection to Country, and hope that our work can benefit both people and Country.

**'Journey of unity: AEMO's Reconciliation Path' by Lani Balzan**

AEMO Group is proud to have launched its first Reconciliation Action Plan in May 2024. 'Journey of unity: AEMO's Reconciliation Path' was created by Wiradjuri artist Lani Balzan to visually narrate our ongoing journey towards reconciliation – a collaborative endeavour that honours First Nations cultures, fosters mutual understanding, and paves the way for a brighter, more inclusive future.

Read our  
RAP





# MEET THE TEAM

## WA Capacity Investment & Assessment (CIA)



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# Disclaimer

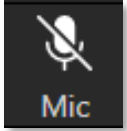
This presentation has been developed in line with the current versions (as at 19/03/2025) of the Wholesale Electricity Market (WEM) Rules and the [WEM Procedure: Certification of Reserve Capacity](#).

AEMO has taken all due care in preparing this material however, accepts no liability for any errors it may contain.

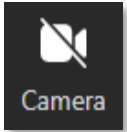
The information may be subject to specific exceptions or may not apply to particular factual circumstances.

To fully understand their obligations, Market Participants should refer to the latest versions of the WEM Rules and WEM Procedures, which are subject to change.

# Online housekeeping



- Please mute your microphone during the presentation.



- Please leave your camera off as well, but we'd love to see you during Q&A.



- Please avoid using AI-powered note-taking tools in this session.



- We will be using the **Q&A function in today's session**. We will pause regularly to give you time to post your question or raise your hand to ask a question.
- We also have a Q&A session with all presenters at the end of today's session.



- We will share a copy of the presentation as a pdf after the meeting on the RCM [webpage](#)
- We welcome feedback via [wa.capacity@aemo.com.au](mailto:wa.capacity@aemo.com.au)

# Purpose

**Objective:** Increase your confidence and knowledge of requirements around submitting Certified Reserve Capacity (CRC) applications for the 2025 Reserve Capacity Cycle as a Market Participant.

## Topics covered:

- Application submission basics
- AEMO review & assessment criteria (including specific requirements for different Facility Classes and Technology Types)
- WEM Rules updates & Flexible Reserve Capacity
- Available resources and support

# CRC Survey – Responses & Actions

## Positive



### CRC Preliminary review

- **4.58 out of 5** on usefulness of the AEMO feedback provided in previous cycles



### CRC Workshop

- **> 75% satisfaction** on previous CRC workshops in terms of content, format, and duration

## Improvement/Requests



### CRC Information Session

- Before CRC window opens
- More sessions



### Key Changes in 2025 RCC

- **Clearer summary** on all changes of the WEM Rules
- More explanation on **Flexible Capacity** information requirement and obligations



## AEMO's Actions

- Hosting CRC information sessions in **March** (not April)
- Intend running more CRC related sessions in **online/hybrid** mode
- Include **summary slide** for key changes in 2025 RCC
- Include information on **Flexible Capacity** in the CRC Information session
- Setting up **drop in Q&A sessions** to allow more opportunities for queries to be addressed

**We value your feedback.**



# Upcoming Information Sessions

Date and time (AWST)	Information session
Monday, 31 March 2025 1:30pm – 3:30pm	Network Access Quantity (hybrid)
Friday, 4 April 2025 2pm – 3pm	Drop-in CRC Q&A session (onsite)
Thursday, 10 April 2025 2pm – 3pm	Drop-in CRC Q&A session (online)
Wednesday, 16 April 2025 10:00am – 11:30am	<ul style="list-style-type: none"> <li>• Flexible CRC (online)</li> <li>• How to submit a CRC application in the RCM portal (online)</li> </ul>



# Learning Objectives

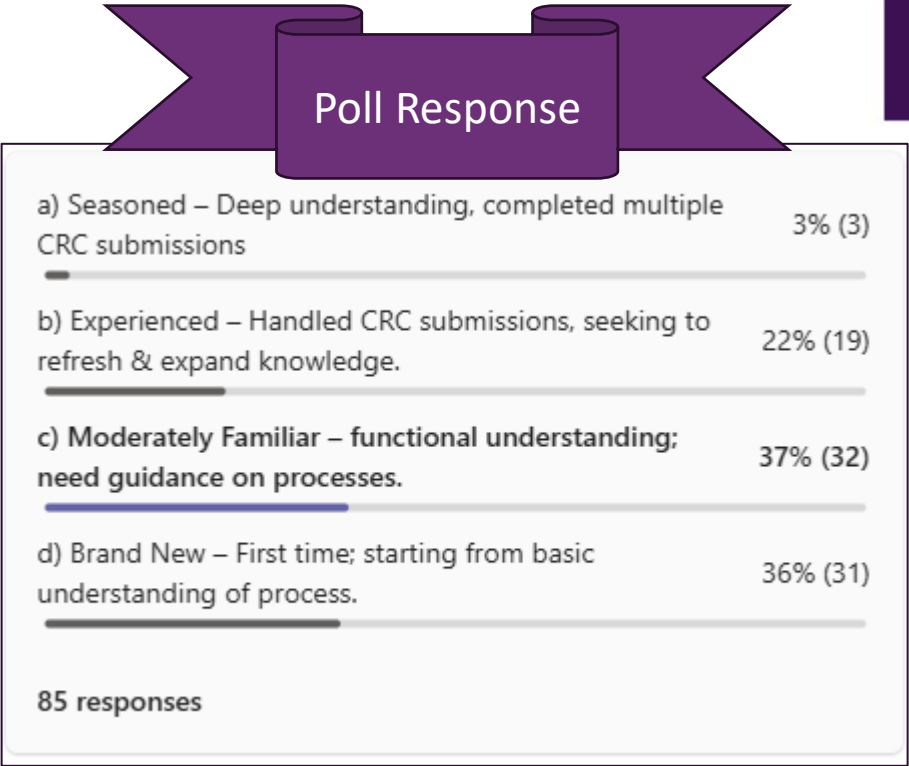
How would you rate your current understanding of the CRC process? *(submit your answer through the Polls in the chat)*

a) **Seasoned** – *Deep understanding, completed multiple CRC submissions.*

b) **Experienced** – *Handled CRC submissions, seeking to refresh & expand knowledge.*

c) **Moderately Familiar** – *functional understanding; need guidance on processes.*

d) **Brand New** – *First time; starting from basic understanding of process.*



# Agenda

Time (approx.)	Topic
9:30 – 9:45	Welcome and introductions
9:45 – 10:00	Prerequisites & Background
10:00 – 10:30	Peak CRC application requirements
10:30 – 10:40	Session break
10:40 – 11:00	Flexible CRC Process
11:00 – 11:15	Steps following the CRC assignment
11:15 – 11:30	Pointers to ensure a smooth CRC application process
11:30 – 11:40	Session break
11:40 – 12:30	Q&A

# Certified Reserve Capacity (CRC) Prerequisites & Background

Neetika Kapani, Manager

# Supporting Information

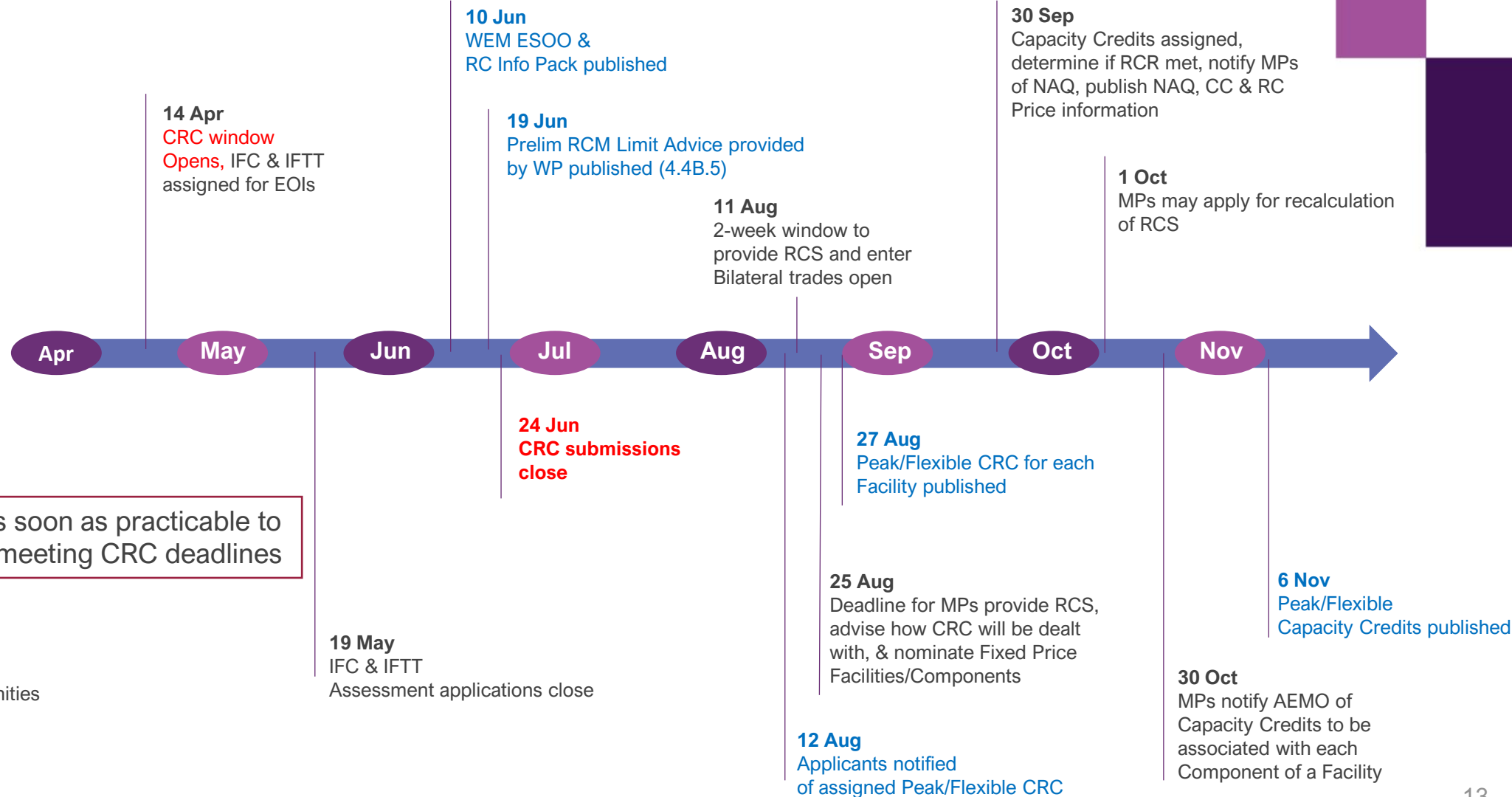
Document and link	Description
<a href="#">Wholesale Electricity Market (WEM) Rules</a>	Section 4.10: Information required for CRC application Section 4.11: Principles for assigning CRC
<a href="#">WEM Procedure: Certification of Reserve Capacity</a>	Procedure for Market Participants to apply for CRC and for AEMO to process and assess CRC applications.
<a href="#">WEM Procedure: Network Access Quantity Model</a>	Procedure for processes and methodologies applied in the NAQ model.
<a href="#">WEM Procedure: Minimum Eligibility Requirements for Flexible Certified Reserve Capacity</a>	Procedure for determining the minimum requirements to be eligible to apply for Flexible CRC.
<a href="#">2025 Reserve Capacity Timetable</a>	Timetable for key dates relevant to the Reserve Capacity Cycle, including the CRC process.
<a href="#">AEMO Reserve Capacity Mechanism (RCM) website</a>	Website to keep you on top of CRC and RCM relevant information
<a href="#">WEMS MPI User Guide: Reserve Capacity Mechanism</a>	Document to describe the functions and capabilities of the RCM portal including CRC application pages.

# 2025 RC Timetable Key Dates

CRC application window closes  
**5:00pm AWST on Tuesday 24 June 2025.**

**Absolute firm date**  
for CRC applications  
and supporting documents.

Submit forms as soon as practicable to  
avoid delays in meeting CRC deadlines



IFC: indicative Facility Class  
IFTT: indicative Facility Technology Type  
ESOO: Electricity Statement Of Opportunities  
NAQ: Network Access Quantities  
RCS: Reserve Capacity Security  
RCR: Reserve Capacity Requirement

For more information, please visit [Reserve Capacity Cycle timetable](#)



# Market Participant registration, Facility creation, and indicative Facility Class assessment

Market Participants **must** have WEMS MPI access.

**Must be a registered Market Participant**

If applying to be a Market Participant then allow for at least **20 Business Days processing.**

**Must have a Candidate Facility or Registered Facility in WEMS MPI**

Allow at **least 5 Business Days processing.**






Submit forms as soon as practicable to [wa.rmp@aemo.com.au](mailto:wa.rmp@aemo.com.au), so AEMO can review the form prior to Market Participant registration.

All Registration queries can be directed to RMP inbox [wa.rmp@aemo.com.au](mailto:wa.rmp@aemo.com.au)

Process	Date for Participating through EOI	Date for Participating without EOI	Notes
Submit application for Market Participant Registration	28 Feb 2025	02 Apr 2025	Complete actions outlined in <a href="#">WEM Procedure: Rule Participant Registration Processes</a>
Approval of Registration*	28 Mar 2025	02 May 2025	Ensure your registration is approved by AEMO
Submit Application for Facility creation	31 Mar 2025	05 May 2025	Link to form <a href="#">here</a> and email it to <a href="mailto:wa.rmp@aemo.com.au">wa.rmp@aemo.com.au</a>
Approval of Facility creation*	11 Apr 2025	19 May 2025	Ensure the Facility is created in WEMS as Candidate Facility
Closing date	N/A	19 May 2025	Closing date for IFC and IFTT submissions
IFC Assessment	9:00 am 14 Apr 2025	Within 10 Business Days	

\* Dates that AEMO approves an application may be longer - timeliness of submission and quality of application is important to ensure timely approvals

# Indicative Facility Class and Facility Technology Type

Indicative Facility Technology Type	Facility Class	Certification methodology
Non-Intermittent Generating System (NIGS)	 Scheduled Facility (SF) Semi-Scheduled Facility (SSF)	Capability at 41°C
Intermittent Generating System (IGS)	 SSF	Relevant Level Methodology
Electric Storage Resource (ESR)	 SF SSF Non-Scheduled Facility (NSF)*	Linearly De-rating Capacity
NIGS IGS ESR**	 NSF	Relevant Level Methodology
Load	 Demand Side Programme (DSP)	What is nominated by the MP, or IRCR Contribution minus minimum consumption

\* A Non-Scheduled Facility that comprising only of an ESR that has been in operation for *less* than five years.

\*\* A Non-Scheduled Facility that comprising only of an ESR that has been in operation for *more* than five years.

# Certified Reserve Capacity (CRC)

## Annual Process

Open to existing Facilities, as well as New Facilities and Upgrades.

## Technical Capacity Review

A detailed technical review of the expected capacity from a Facility in the given Capacity Year.

## Facility Component Assessment

Facilities assessed at component level.

Non-Scheduled Facilities are exempt, as they do not have separate components.

# CRC first principles



- Information required for the CRC is rule defined.



- The assessment is a ***two-part process***;
  1. Determination if the Facility meets the rule requirements, and then if so
  2. An assessment of the appropriate quantity of CRC to be assigned



- A successful application must meet all the requirements relevant to the Facility and its technology type as specified in clause 4.10 of the WEM Rules.



- The amount of CRC assigned is assessed based on section 4.11 of the WEM Rules.

# Key Changes to the WEM Rules (2025 RCC)



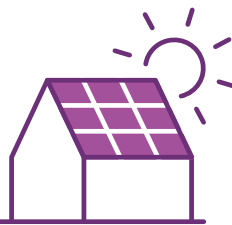
## Flexible CRC

- Facilities that can meet Minimum Eligibility Requirements (MER) may apply for Flexible CRC
- Flexible Capacity providers may be paid an additional amount for providing their Flexible Capacity Credits
- MR 4.10.1A outlines how AEMO determines MER for different types of Facilities



## Pricing

- MR 4.29.1(b) details new RC price for both Peak and Flexible
- Peak RC pricing includes deadband to reduce price volatility
- Flexible Capacity Credit holders are eligible for a top up payment, if Flexible RC price > Peak RC price
- Price floor > 0, giving greater certainty to investors



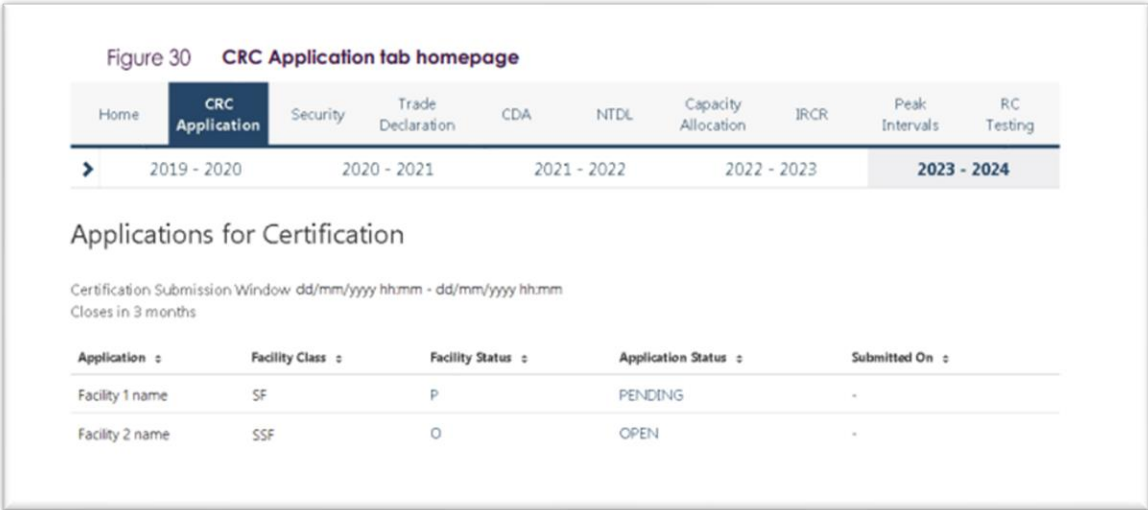
## DER

- Distributed Energy Resources (DER) may participate in the CRC process as DSPs
- Future rule changes in Schedule 3 of the Amending Rules will recognise injection as well as withdrawal in operations
- This will not impact CRC assessment process



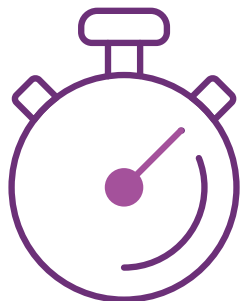
# CRC application requirements

## WEMS MPI



## WEM Procedure:

- **No new or updated supporting documentation can be submitted after 5:00pm 24 June 2025** (paragraph 4.2.5).
- **AEMO will reject** an application that does not include all information required under MR 4.10 (paragraph 4.2.4)
- All information in support of your **CRC application has to be submitted via the RCM Portal**



9:00 AM 14 April 2025 to  
5:00 PM 24 June 2025  
MR 4.9.1



Supporting Documentation  
MR 4.10

# General requirements for documents

Supporting documentation (paragraph 3.1.6 of the WEM Procedure) must:

Relate to the Facility or Component (as relevant) and cover the entire relevant Capacity Year

Be signed by all relevant parties and where the relevant party is a Market Participant be duly executed by an Authorised Officer

Be complete, with the exception that pricing and other commercially-sensitive information may be redacted

Include evidence that any contract conditions precedent have been satisfied or waived

# Important reminders

## Preliminary Assessment

- At AEMO's sole discretion.
- Opportunity to receive feedback and amend applications.
- Applications to be submitted at least 10 Business Days (10 June 2025) before 24 June 2025.

## WEMS MPI Access

- Ensure more than one person has access.

## Submissions

- Remember to **hit the "Submit"** button.
- Don't leave until the last minute.

Home	CRC Application	Security	Trade Declaration	CDA	NTDL	Capacity Allocation	IRCR	Peak Intervals	RC Testing
>	2019 - 2020	2020 - 2021	2021 - 2022	2022 - 2023	2023 - 2024				

### Application for Certification

[Withdraw](#)

Your application has been submitted with the following components:

Participant:	Capacity Year:	2023 - 2024
Facility Name:	Certification Window:	01/12/2021 09:00 - 10/02/2022 17:00
Facility Class:	Scheduled Facility	
Facility Status:	Commercial Operation	
Application Status:	SUBMITTED	
Assigned CRC:	-	
Application Type:	Existing	

# CRC Application – Peak Capacity

Nick Zhang, Market Analyst

# Facility and component information

SF and SSF applications consist of:

- Facility level information (e.g. network access confirmation).
- Component level information (e.g. fuel contracts for NIGS components).
- At least one component (ESR, NIG, IGS) must be included in the application.

- NSF and DSP: all information is provided at the Facility level.
- NSF: Components are displayed but cannot be selected.



# General requirements for Facility level information (excl. DSPs)

Supporting information	Reference	What AEMO requires	Requirement
Network Access confirmation	MR 4.10.1(bA)	<ul style="list-style-type: none"> <li>Evidence of an Arrangement for Access (such as an ETAC or NAA) or evidence that the Market Participant has accepted an Access Proposal or other evidence that the Facility will have an Arrangement for Access</li> <li>Evidence the Facility will have access prior to RC Obligations commencing</li> <li>The Declared Sent Out Capacity at the connection point</li> </ul>	Mandatory
Description of Facility	MR 4.10.1(dA)	<ul style="list-style-type: none"> <li>Description and configuration of the main components of the Facility</li> <li>This must include nameplate capacity of each component</li> </ul>	Mandatory
Operating restrictions	MR 4.10.1(g)	<ul style="list-style-type: none"> <li>Note any restrictions on the availability of the Facility due to staffing constraints;</li> <li>Any other restrictions (this may include lease conditions, operating licences and any other factors that may prevent the Facility from operating during peak periods in the relevant Capacity Year); and</li> <li>Operating licenses must cover the entire Capacity Year, ensure engagement with DWER if due to expire</li> </ul>	Mandatory

# General requirements for Facility level information (excl. DSPs)

Supporting information	Reference	What AEMO requires	Requirement
NCESS Contract	<b>MR 4.10.1(j)</b>	<ul style="list-style-type: none"> <li>If applicable, provide evidence of an NCESS Contract for the relevant Capacity Year, specifying the terms and conditions. Price information may be redacted.</li> </ul>	For Facilities that are subject to an NCESS Contract.
Offtake agreement or Power Purchase Agreement	<a href="#">WEM Procedure: Declaration of Bilateral Trades</a> - Appendix B	<ul style="list-style-type: none"> <li>Where a Facility is being built primarily to supply energy to one or more foundation customers, evidence that relevant power supply contracts are in place.</li> </ul>	Optional
Minimum stable loading level	<b>MR 4.10.1(dB), Appendix 1</b>	<ul style="list-style-type: none"> <li>Required as an input into the NAQ model</li> <li>Must be expressed in sent out MW</li> <li>Required to match Standing Data (if update required allow sufficient time to get a Change Request approved)</li> </ul>	Not applicable to Non-scheduled Facilities
Dispatch Instruction evidence	<b>MR 4.10.1(l)</b>	<ul style="list-style-type: none"> <li>Existing Facilities: evidence from the new market (post 1/10/23)</li> <li>New Facilities: PEA, Communication Protocol</li> </ul>	Non-scheduled Facilities are not required
Additional documents		<ul style="list-style-type: none"> <li>Any other documentation to support the application.</li> </ul>	Optional

# Demand Side Programmes (DSPs)

Supporting information	Reference	What AEMO requires	Requirement
Available Quantity for consumption reduction (MW)	4.10.1(f)(i) 4.10.1(f)(iA)	<ul style="list-style-type: none"> <li>For a DSP with 1 Associated Load (that has an IRCR), the quantity of Peak Capacity expected to be available</li> <li>For a DSP with &gt;1 Associated Loads (or 1 without an IRCR), the quantity of Peak Capacity the MP nominates for the DSP</li> </ul>	Mandatory
Availability Requirements	4.10.1(f)(ii) 4.10.1(f)(iii) 4.10.1(f)(v) 4.10.1(f)(vi)	<ul style="list-style-type: none"> <li>Maximum number of Trading Intervals DSP will be available (at least 100 (50 hours) for the 2024 RCC)*</li> <li>Maximum number of Trading Intervals per Trading Day DSP will be available (at least 24 (12 hours))</li> <li>Minimum notice period required for dispatch (must be &lt;= 2 hours for Peak Capacity and &lt;= 5 minutes for Flexible Capacity )</li> <li>Periods when DSP can be dispatched (must be at least 08:00 – 20:00 on Business Days)</li> </ul>	Mandatory
Operating Restrictions	4.10.1(g)	<ul style="list-style-type: none"> <li>Any restrictions on the availability of the Facility (e.g. staffing restrictions, lease conditions, environmental licence conditions)</li> </ul>	Mandatory
Location of loads associated with the DSP	4.10.1(f)(viii)	<ul style="list-style-type: none"> <li>A list of all loads, including the National Meter Identifier (NMI/s) and Transmission Node Identifier (TNI/s), associated to the DSP.</li> <li>Where contracts are not in place, a list of loads (with NMIs) that are intended to be included. Exemption for DSPs comprised of more than one Associated Load each with an expected Peak Capacity of less than 5 MW, from providing the single Transmission Node Identifier (TNI) in the system for this year.</li> </ul>	Mandatory

Note. DSP Dispatch Requirement will be published in 2025 WEM Electricity Statement of Opportunities (ESOO) in June 2025

# Component level information – Non-Intermittent Generating Systems (NIGS)

Supporting information	Reference	What AEMO requires	Requirement
Temperature Dependence information	MR 4.10.1(e)(i) Appendix 1 of WEM Rules	<ul style="list-style-type: none"> <li>The Capacity and temperature dependence of that Capacity</li> <li>The maximum sent out Capacity, net of loads, that can be guaranteed to be available when operating at <b>ambient temperature of 41 degrees Celsius</b>. Note: information in Standing Data must be capacity available to network.</li> <li>Must be supported by the manufacturer's technical specifications or as determined by an independent engineer.</li> </ul>	Mandatory
Fuel supply	MR 4.10.1(e)(v) 5.3 of WEMP	<ul style="list-style-type: none"> <li>Details of primary and alternative fuels</li> <li>If primary and alternative, the process for changing fuels and the fuel or fuels to be used for CRC</li> <li>Supporting evidence of both firm and any non-firm fuel supplies and factors that determines restrictions that could prevent operation at full capacity <b>during business days</b></li> <li>This may demonstrate ability to procure additional fuel through the spot market and utilisation of storage facilities</li> <li>Full contracts must be provided which include full details of the fuel quantity to be delivered. Price information may be redacted.</li> <li>Additionally, historical fuel supply data in relation to contractual entitlement quantities, deliveries <b>and reserves in the previous 36 months</b> must be provided, addressing risks (historical and foreseeable).</li> <li>Details of the quantity of fuel must be provided in MWh (paragraph 5.3.7)</li> </ul>	Mandatory

# Component level information – NIGS

Supporting information	Reference	What AEMO requires	Requirement
Fuel transport	MR 4.10.1(e)(v) 5.3 of WEMP	<ul style="list-style-type: none"> <li>• Evidence that the fuel being procured by the Market Participant is able to be delivered to the Facility.</li> <li>• Full contracts must be provided and include contract expiry dates and delivery lead times.</li> <li>• A Market Participant may demonstrate its ability to source transport through the spot market.</li> <li>• Price information may be redacted.</li> <li>• Additionally, historical fuel transport data in relation to contractual entitlement quantities and deliveries must be provided, addressing risks (historical and foreseeable).</li> </ul>	Mandatory
Fuel availability (min 14 hours on Business Days)	MR 4.10.1(e)(v) 5.3 of WEMP	<ul style="list-style-type: none"> <li>• Evidence that the Facility has sufficient fuel supplies, either through an on or off-site storage facility or delivered through a gas pipeline, to operate continuously for 14 hours at maximum output <b>during business days</b>.</li> <li>• This may include evidence of fuel storage tanks along with volumetric quantities, minimum stockpile levels and data on fuel used per hour of operation (for example, GJ/MWh).</li> <li>• Where the Facility has primary and alternative fuels, outline the process for changing from one fuel to another and the fuel(s) which the Facility is to use in respect of an application for CRC.</li> </ul>	Mandatory



# Component level information – Intermittent Generating Systems (IGS)

Supporting information	Reference	What AEMO requires	Requirement
Accredited expert report	MR 4.10.3 & 4.10.3A	<ul style="list-style-type: none"> <li>Independent Expert Report (IER) for a Facility or component that is assessed using the Relevant Level Method</li> <li>Data submission template is available in the RCM portal</li> <li>The IER must include                             <ul style="list-style-type: none"> <li>the expected output (and actual output if available) of the Facility from 8:00am 1 April 2020 to 8:00 am 1 April 2025</li> <li>and the 5% probability of exceedance (POE). Note the 5% POE is used to calculate the Required Level of a Facility</li> </ul> </li> </ul>	For a Facility that has been in operation for <5 years or an Upgrade

The 'Information guide for IERs in the Reserve Capacity' and a list of accredited independent experts can be found on the [WEM Website](#).

## Information related to specific cases of certification of reserve capacity

The following sections contain information relating to specific cases of certification of reserve capacity.

Relevant Level Methodology



Conditional certified reserve capacity



Early certified reserve capacity



New small generators



# Independent Expert Report

- In accordance with Clause 4.10.3, a Facility that is yet to enter service, or to re-enter service after significant maintenance or upgrade, that is to be assessed using Relevant Level must include a report by an expert accredited by AEMO
- A report must include the criteria as specified under Clause 4.10.3A(a)
- AEMO expects that a reasonable estimate of the expected energy includes a reasonable estimate of loss factors that are applicable to the Facility. The estimates of loss factors should be reflective of industry accepted typical loss categories and calculation standards.
- AEMO expects an IER to include assumptions and explanations on the loss factors used in the development of the IER.
- For Facilities that installed Facility Sub-Metering in accordance with MR 2.19.12, the actual output data comes from Facility Sub-Metering.

[WEM Procedure: Facility Sub-Metering](#)

- Provided for a component that is <5 years old
- Estimated output (and actual output where available) over the 5-year period
- Used in place of actual data to calculate Relevant Level
- Replaced with actual meter data (NOT SCADA) when the component starts operating

# Component level information – Electric Storage Resources

Scheduled & Semi-Scheduled Facilities

Supporting information	Reference	What AEMO requires	Requirement
Nameplate capacity & Charge Level capabilities	MR 4.10.1(fA)(i)	<ul style="list-style-type: none"> <li>Nameplate capacity</li> <li>Maximum &amp; minimum Charge Level capabilities of the ESR and the temperature dependence of that capacity.</li> </ul>	Mandatory
Maximum sent out, guaranteed capacity at ambient temp	MR 4.10.1(fA)(ii)	<ul style="list-style-type: none"> <li>Maximum sent out capacity, net of Loads, that can be guaranteed to be available from the ESR when it is operated normally at an ambient temperature is 41°C.</li> </ul>	Mandatory
Sent out capacity guaranteed for each year of the ESR's expected life	MR 4.10.1(fA)(iii)	<ul style="list-style-type: none"> <li>Sent-out capacity, net of Loads that can be guaranteed to be available for supply across the Peak ESR Obligation Duration, measured at the point of connection</li> <li>Operated normally at an ambient temperature of 41°C for each year of the expected life of the ESR</li> <li>Must be supported by manufacturer data.</li> </ul>	Mandatory
Nameplate capacity & max & min charge level capability for each year of remaining life	MR 4.10.1(fA)(iv)	<ul style="list-style-type: none"> <li>Manufacturer nameplate capacity and maximum Charge Level capability and minimum Charge Level capability data of the ESR for each year of its expected remaining life.</li> </ul>	Mandatory
Outage rates	MR 4.10.1(fA)(v)	<ul style="list-style-type: none"> <li>Expected forced and unforced outage rate of the ESR</li> <li>Taking into account the Peak Electric Storage Resource Obligation Duration based on manufacturer data. Note charge shortfalls are assessed as part of outage calculations under 4.4.2 of the WEMP.</li> </ul>	Mandatory

# Electric Storage Resources

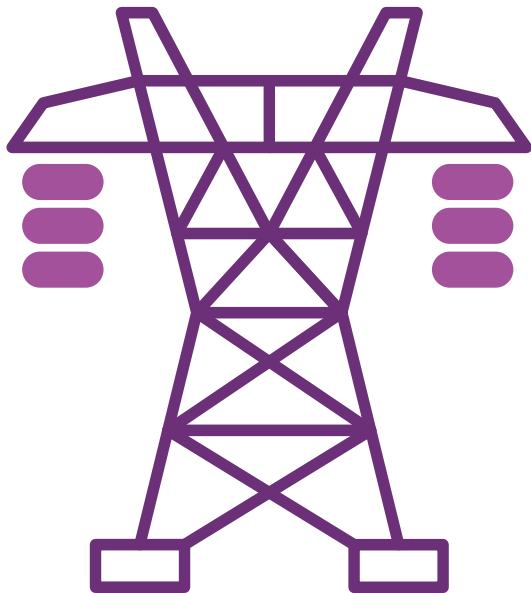
## Non-Scheduled Facilities with only ESR

- ❑ Has been in operation since *before* 8:00 am, 1 April 2020
  - Relevant Level method applies
  - IER required
  
- ❑ Not in operation yet, or has been in operation *after* 8:00 am, 1 April 2020
  - Linearly De-rating method applies
  - Refer to the previous slide (ESR of SF/SSF) for charge/discharge capability requirements
  
- In common
  - Facility-level page only
  - Expected to discharge during Peak ESR Obligation Intervals
  - Meet all other MR 4.10.1(fD) requirements, incl. location of single TNI behind which the aggregated ESRs will be connected.

# Additional information for new Facilities and upgrades

Supporting information	Reference	What AEMO requires
Project plan	MR 4.10.1(c)(iii)	<ul style="list-style-type: none"> <li>Key project dates as outlined in clause 4.10.1(c)(iii) of the WEM Rules</li> </ul>
Environmental approvals	MR 4.10.1(c)(ii)	<ul style="list-style-type: none"> <li>Evidence that any necessary environmental approvals have been granted</li> <li>or evidence supporting the Market Participant's expectation that any necessary environmental approvals will be granted in time</li> </ul>
Financial commitment and funding arrangements	MR 4.10.1(c)(iii)	<ul style="list-style-type: none"> <li>Evidence of funding arrangements for the Facility</li> <li>Financial commitment by the Market Participant to a primary equipment supplier Formal commitment, including financial approval, on behalf of the company in respect to the project (for example, Board approval)</li> </ul>
Local government approvals	MR 4.10.1(c)(iii)	<ul style="list-style-type: none"> <li>Details of relevant local government approvals to operate a power station.</li> </ul>
Land leases	MR 4.10.1(c)(iii)	<ul style="list-style-type: none"> <li>Details of access rights to land (ownership or an appropriate leasing agreement). Leasing arrangements to include duration of tenure, renewal options and signatory pages.</li> </ul>

# Network Augmentation Funding Facility (NAFF) Requirements



Relates to an Energy Producing System

The Market Participant for the Facility has committed to funding Network Augmentation Works

The works are expected to be in-service by 1 Oct of Year 3

The EOI for the specified that the Facility was expected to be classified as a NAFF Facility

A written notice must be provided to AEMO (clause 4.10.1(m)(i))

The CRC application must include evidence requested in clause 4.10A.6

\* Evidence may include (not limited to):

- Interconnection Works Contract (IWC) with Western Power, demonstrating that relevant conditions precedent have been/will be satisfied or waived
- ETAC with Western Power, demonstrating that relevant conditions precedent have been/will be satisfied or waived.

# Session Break





# Flexible CRC Process

Rebecca Pedlow-Collins  
Senior Analyst

# What is Flexible CRC



From the 2025 Reserve Capacity Cycle a new Flexible CRC mechanism has been introduced to incentivise capacity that can start, stop, ramp up and ramp down quickly.



Facilities which can meet [Minimum Eligibility Requirements](#) determined by AEMO are eligible to apply for Flexible CRC.



Flexible Capacity Credits will be assigned based on the maximum output they can achieve within **four hours** from a cold state and capped at their Peak CRC.



Flexible Capacity providers will be paid an additional amount for their Flexible Capacity Credits (when the Flexible price > Peak price).

# Minimum Eligibility Requirements (MER) for 2025 Flexible CRC

Requirement	Non-Intermittent Generating System	Intermittent Generating System	Electric Storage Resource	Demand Side Programme
Maximum allowed minimum stable loading level expressed as a percentage of nameplate capacity	46%	46%	N/A	N/A
Minimum allowed ramp up rate expressed in percent of nameplate capacity per minute;	3%	3%	3%	3%
Minimum allowed ramp down rate expressed in percent of nameplate capacity per minute	3%	3%	3%	3%
Maximum time (in minutes) allowed between receiving a Dispatch Instruction when in a particular state and operating in a specific way	30	5	N/A	5
Capable from switching from charging to discharging (and vice versa) in a single Dispatch Interval	N/A	N/A	Y	N/A
Fast Start Facility	Y	N/A	N/A	N/A

For more information, please visit [Report: Flexible Certified Reserve Capacity minimum eligibility requirements for the 2025 Reserve Capacity Cycle](#)

# Flexible CRC – additional information



## Fast Start Facility

- Obligation of NIGS Facilities.
- They must:
  - ✓ synchronise and change its level of injection or withdrawal from 0 MW to its minimum stable loading level within 30 minutes of receiving a Dispatch Instruction; and
  - ✓ shut down within 60 minutes from the time the Dispatch Instruction to synchronise was issued.



## FCESS

- The Market Participant *must* apply for the accreditation of any Frequency Co-optimised Essential System Service (FCESS) – MR 4.12.2(d).
- Applications are to be at least 3 months before the start of the first Capacity Year.



## Capping & Eligibility

- Flexible Capacity Credits are capped at the level of Peak Capacity Credits for each Facility.
- Non-Scheduled Facilities are not eligible for Flexible Capacity application - MR 4.11.1(bH).

How confident do you feel now about applying for Flexible CRC? *(submit your answer through the Polls in the chat)*

a) **Feeling great – I’m ready to apply!**

b) **Getting there – but could use a bit more info**

c) **A bit unsure – need a lot more support**

d) **Not applicable to me**

### Poll Response

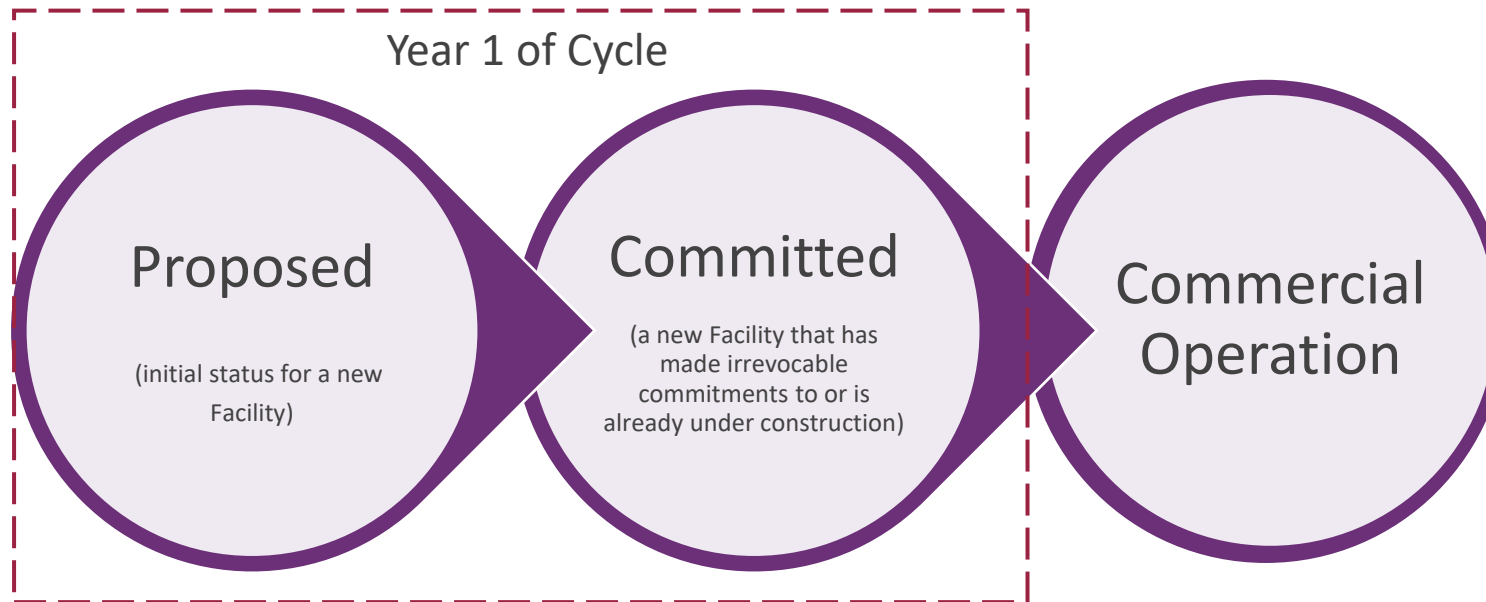
a) Feeling great – I’m ready to apply!	2% (2)
b) Getting there – but could use a bit more info	34% (25)
c) A bit unsure – need a lot more support	36% (27)
d) Not applicable to me	26% (19)

73 responses

# Steps Following CRC Assignment

Louise Walker, Market Analyst

# Facility Status



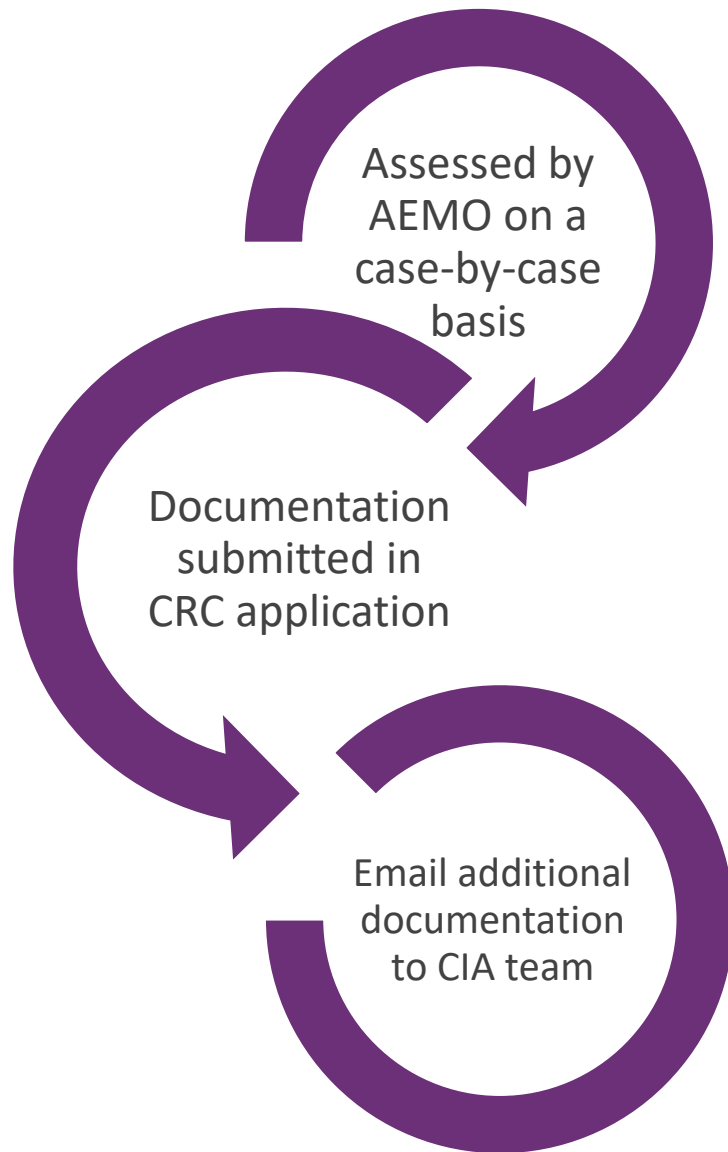
## Committed

- Important concept of the NAQ (Appendix 3 of WEM Rules).
- Committed receives NAQ preference over proposed.
- Committed application must be submitted 10 BD prior to making Trade Declaration.
- New Facilities apply for Committed through WEMS MPI change request and email to CIA team.
- Upgrades apply for Committed by email to CIA team.

## Commercial Operation

- Commercial Operation assessment occurs once the Facility has commenced operation in the energy market prior to 1 Oct obligation date.
- Commercial Operation receives a NAQ preference.
- Commercial Operation applications for New Facilities and Upgrades via email to the RMP team.

# How to demonstrate committed status



*Where a Market Participant has demonstrated its firm and binding commitments to construction and development of the Facility or Facility upgrade.*

*This can include evidence such as:*

- ☐ Evidence of generation licence
- ☐ A signed contract for purchase of equipment
- ☐ Financial approvals and funding arrangements
- ☐ Evidence that the Facility is under construction
- ☐ Power purchase agreements with a customer
- ☐ Land leases



# Assessment of committed status

## Description of Commitment Status

WEM projects fall into one of three classes of certainty (Commitment Status).

The Commitment Status is determined by assessing the progress of a Generation Project against the Project Commitment Criteria, as outlined above.

Commitment Status	Summary Status	Description
Commercial Operation	Commercial Operation	Have passed the Commercial Operation requirements of clause 4.13.10B (passed Commissioning Tests, electrified, IATO or IATGN in place)
Committed	Committed	Projects that are likely to proceed, with known timing, satisfying the relevant commitment criterion in an irrevocable and binding form. That is, all categories are green.
Proposed	Proposed	These projects are not yet sufficiently progressed to be regarded Committed. That is, not all categories are green.

## Framework for assessment of Committed Status

		NIGS/IGS/ESR		NSF		DSP	
Criteria		Committed	Proposed	Committed	Proposed	Committed	Proposed
← Increasing project maturity	Land	●	●	●	●	N/A	N/A
	Contracts	●	●	●	●	●	●
	Planning	●	●	●	●	●	●
	Finance	●	●	●	●	N/A	N/A
	Construction	●	●	●	●	N/A	N/A

**Green traffic lights** refer to criteria supported by the relevant final or executed approvals, contracts or arrangements (in the case of contracts with all relevant conditions precedent satisfied or waived.)

**Red traffic lights** indicate where insufficient or no evidence is available to support this criteria. One or more red traffic lights will indicate a Proposed status.

# Trade declarations

- Window opens first Business Day after CRC assignment – Wednesday 13<sup>th</sup> August 2025
- Closes 5pm Monday 25<sup>th</sup> August 2025
- Submissions made through WEMS
- Market Participants must provide:
  - ✓ Traded - How much CRC will be offered for bilateral trade
  - ✓ Unavailable – withdrawn or no longer avail
  - ✓ Fixed Price candidate
  - ✓ Min CC Quantity (Proposed Status)
- Once you have saved ensure the **SUBMIT** button is selected

Trade Declaration Dates: dd/mm/yyyy to dd/mm/yyyy  
Closes in X days

Assigned CRC	Traded CRC	Bilaterally Traded	Unavailable	Remaining
100	0	100	0	0

Figure 43 Edit a trade declaration for a Scheduled Facility or Semi-Scheduled Facility

Trade Declaration Status: OPEN

Facility name	Assigned	Traded	Unavailable	Remaining	TradedCRC
Proposed	50	50	-	0	-
Facility Class	<input checked="" type="checkbox"/> Fixed Price Candidate				

Cancel Save

Component name	Assigned	Traded	Unavailable	Remaining
Technology type	50	50		0

Figure 44 Edit a trade declaration for a Non-Scheduled Facility or Demand Side Programme


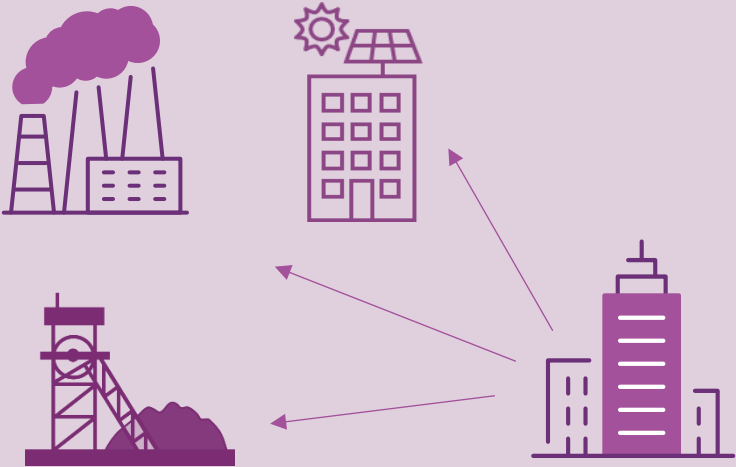
Trade Declaration Status: OPEN

Facility name	Assigned	Traded	Unavailable	Remaining	TradedCRC
Commercial Operation	5	5		0	-
Facility Class					

Cancel Save

[WEM Procedure: Bilateral Trades](#)

# Provision of Reserve Capacity Security (RCS)

	Facilities (excluding DSP)	Demand Side Programme (DSP)
<b>Who is required to provide?</b> <ul style="list-style-type: none"> <li>• New Facilities</li> <li>• DSPs</li> <li>• Upgrades</li> <li>• Existing Facility undergoing significant maintenance</li> </ul>		
<b>How to calculate?</b>	Equals 25% of the BRCP <b>X</b> MW of Peak CRC's assigned.	
<b>When is it returned?</b>	<ul style="list-style-type: none"> <li>✓ Commissioning Completed; and</li> <li>✓ Commercial Operation achieved; and</li> <li>✓ Operates at Required Level adjusted to 90% of level of CC's in at least two Trading Intervals (clause 4.13.10) or 100% for early return (clause 4.13.13)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Commercial Operation achieved; and</li> <li>✓ Previously passed an RC Test/historical performance; and</li> <li>✓ Reduces consumption to at least Required Level adjusted to 90% of level of CC's in at least two Trading Intervals (4.13A.15)</li> </ul>

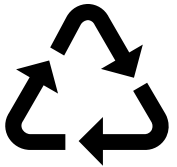
# Reserve Capacity Security (RCS)



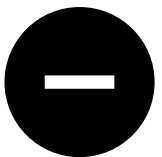
Cash deposit with Security Deed or Bank Guarantee from an Acceptable Credit provider (list available on website) [Credit Support and Reserve Capacity Security](#)



Need to submit by deadline (clause 4.1.13 approx. 9 BD following CRC notification)



Lodged in Year 1 of cycle (Clause 4.13.1D AEMO must hold the benefit of Security if a previous RCS has been drawn upon)



NCESS security is net of any RCS lodged

# Pointers for a smooth submission process

Michael Brennan, Market Analyst

# Pointers for a smooth submission process

- Please use the opportunity to submit preliminary applications (at least 10 BD before 24 June) to be notified of gaps in your application before a final application is submitted.
- Please put your best foot forward and ensure all compliance requirements with the WEM Rules and WEM Procedures have been met in relation to your 2025 CRC application.
- Engage with the WA CIA team earlier than later for any 2025 CRC queries.
- AEMO needs complete documents. Providing draft unsigned documents and then seeking to provide a signed document after the CRC window closes is problematic.
- Have backup access to the RCM portal (more than 1 person has access).
- Note the closing date for CRC applications is **24 June, 5:00 pm AWST** – this is a WEM Rules requirement and AEMO has no discretion on the matter. You must finalise and Hit the Submit button by that date.
- Details are important but please be considerate and remove information from your application that is irrelevant for the purposes of CRC assessment, including anything that has carried through from past applications but is no longer relevant to your current application.
- Where possible, please avoid transferring Facilities between Market Participants mid CRC window. If a Facility must be transferred, ensure this is completed before the CRC window closes, and the new owner applies for the CRC. Documents will not be transferred, and the CRC application will be blank to maintain confidentiality. Please allow sufficient time to complete these steps and engage with the WA CIA team for further support.

# Don't miss these key CRC dates

Date	Action
14 April 2025*	Opening date for Peak/Flexible CRC applications
19 May 2025	Closing date for IFC and IFTT submission (if you didn't submit an EOI)
10 June 2025	AEMO publishes 2025 WEM Electricity Statement of Opportunities (ESOO)
24 June 2025	<b>Closing date</b> for Peak/Flexible CRC applications
11 August 2025	Last day for application of Committed Status for new Facilities or Facility Upgrades
12 August 2025	AEMO notifies Market Participants of Peak/Flexible CRC to be assigned
25 August 2025	<ul style="list-style-type: none"> <li>- Provide RCS or DSP RCS to AEMO if required</li> <li>- Notify AEMO of the amount of bilateral trade</li> <li>- Nomination of Fixed Price Facility or Component</li> </ul>
27 August 2025	AEMO publishes Peak/Flexible CRC assigned to each Facility
30 September 2025	AEMO assigns Peak/Flexible CRC and notifies NAQ determined for each Facility
1 October 2025	Market Participants may apply for recalculation of RCS/DSP RCS
30 October 2025	If MR 4.20.16 applies, Market Participants must notify AEMO of the number of Capacity Credits to be associated with each component

\* Opening of CRC application is 9am, all other deadlines in this table are at 5pm (AWST)

- Additional information can be found on the [WEM Website](#).
- For complete Reserve Capacity Cycle timetable please refer to [RCM Website](#)

# Session Break





# Have we achieved today's purposes?

Today's session is designed to help participants gain confidence and knowledge on submitting CRC applications in the 2025 Reserve Capacity Cycle. Did the session

- cover the basics of submitting a CRC application and explain how AEMO reviews and assesses these applications?
- cover the changes to the WEM Rules around certification including the introduction of Flexible Reserve Capacity?
- introduce the resources available to support your CRC application?

We welcome feedback on the session!

Please direct any questions on the CRC process to the WA CIA team at

[wa.capacity@aemo.com.au](mailto:wa.capacity@aemo.com.au)

How would you rate your current confidence in submitting a CRC application after today's session? *(submit your answer through the Polls in the chat)*

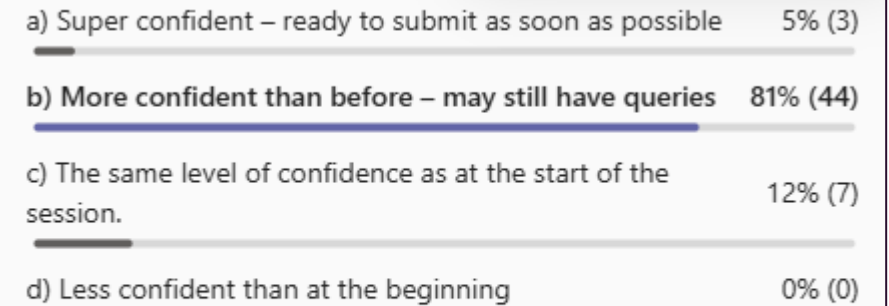
a) Super confident – ready to submit as soon as possible

b) More confident than before – may still have queries

c) The same level of confidence as at the start of the session.

d) Less confident than at the beginning.

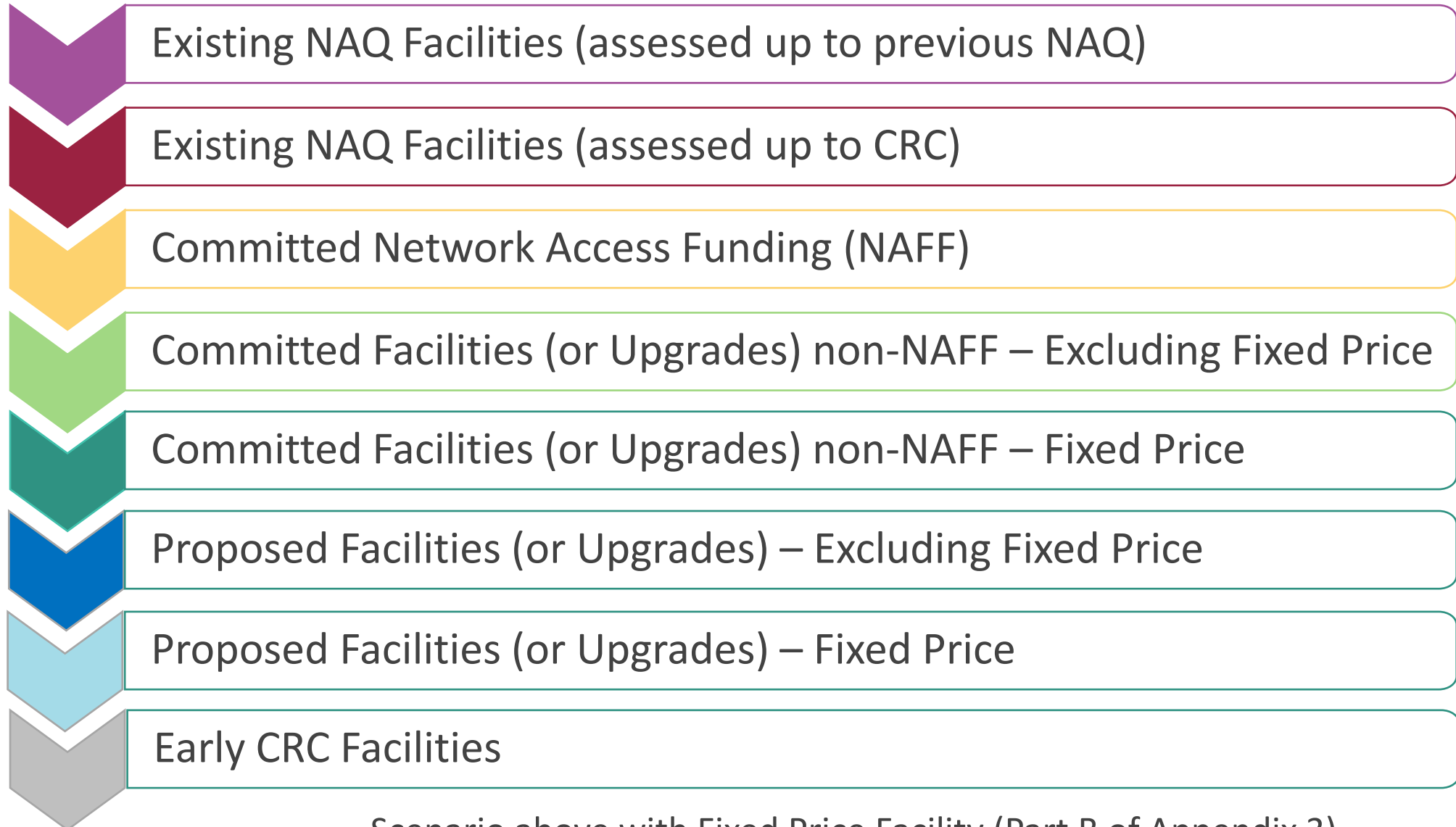
### Poll Response



54 responses

# Appendix

# Priority Order to access NAQ

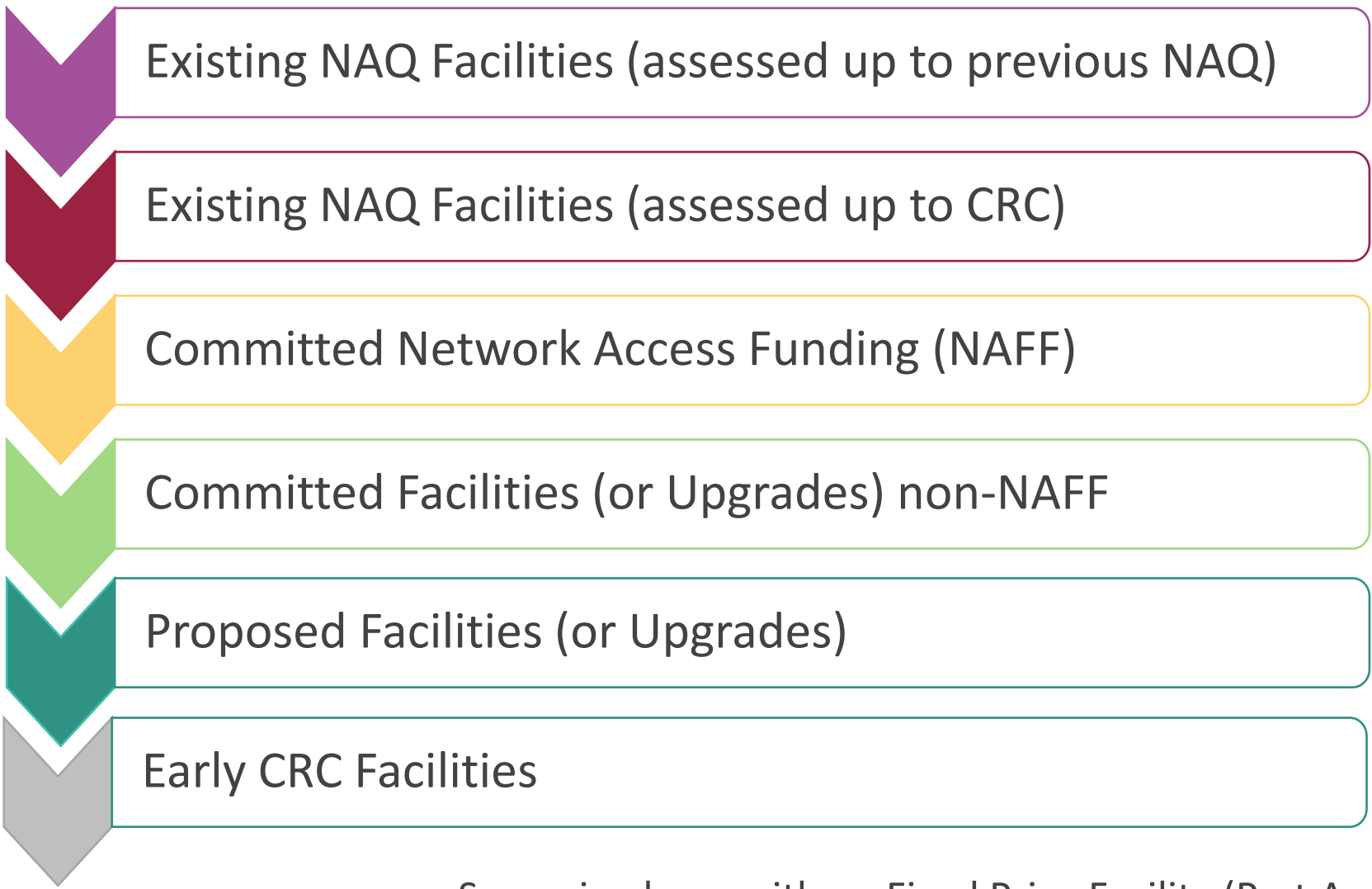


All added in turn to the NAQ model regardless of RCR

Added only if more capacity required

Scenario above with Fixed Price Facility (Part B of Appendix 3)

# Priority Order to access NAQ



All added in turn to the NAQ model regardless of RCR

Added only if more capacity required

Scenario above with no Fixed Price Facility (Part A of Appendix 3)

# Reserve Capacity Price

## Peak RCP

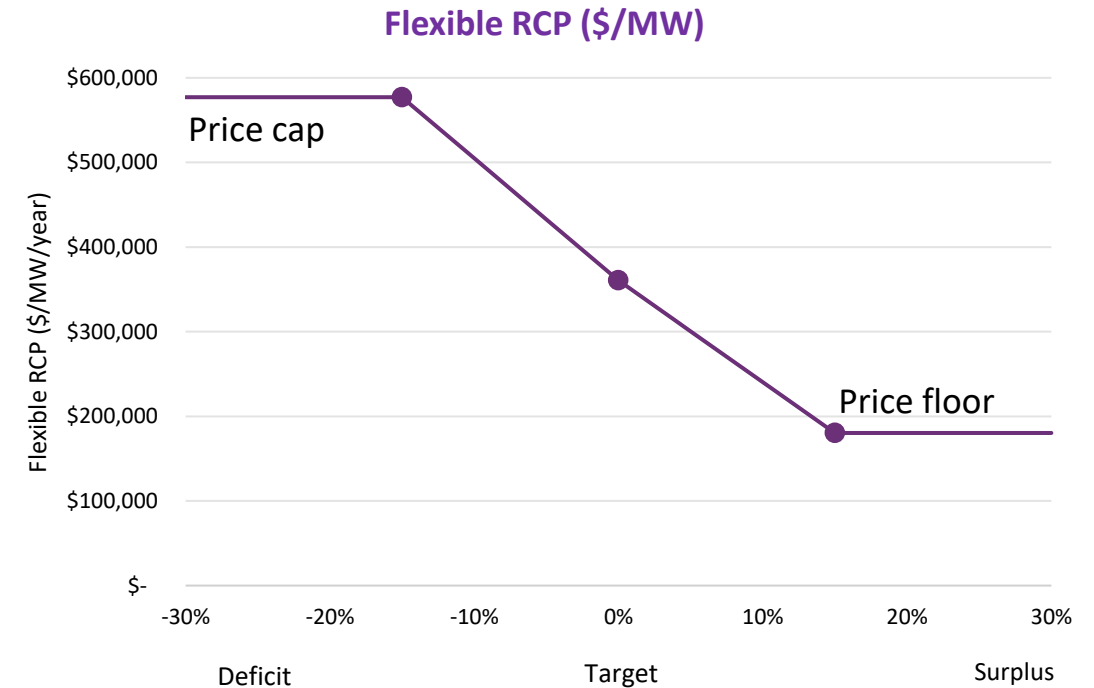
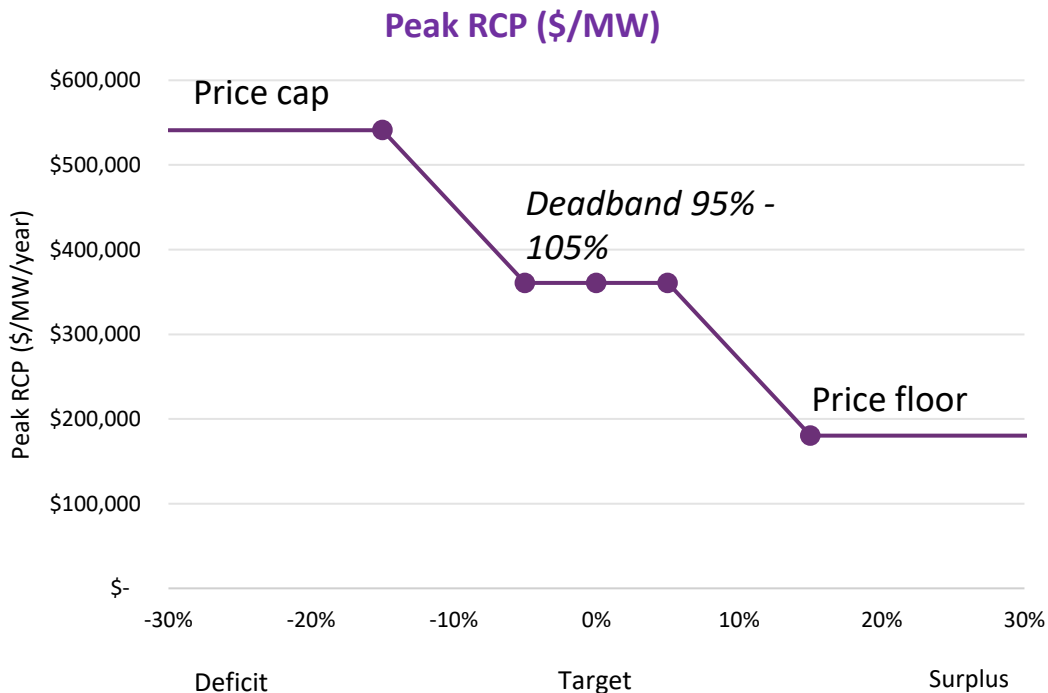
- Maximum price  $1.5 \times \text{BRCP} = \$541,050$
- Price at Capacity Target:  $\text{PBRCP} = \text{BRCP}$
- Deadband: BRCP at 95%-105% of Target Capacity
- Minimum Price:  $0.5 \times \text{BRCP} = \$180,350$

## Relationship

- When the Flex RC price exceeds the Peak RC price, a 'top-up' payment equal to the difference is applied.

## Flexible RCP

- Maximum price  $1.6 \times \text{BRCP} = \$577,120$
- Price at Capacity Target:  $\text{FBRCP} = \text{BRCP}$
- Minimum Price:  $0.5 \times \text{BRCP} = \$180,350$





For more information please contact the WA  
Capacity Investment & Assessment team at  
[wa.capacity@aemo.com.au](mailto:wa.capacity@aemo.com.au)

