WEMS MPI User Guide: Reserve Capacity Mechanism

September 2024

Version 3

Important notice

Purpose

AEMO has prepared this document to provide information about the Reserve Capacity Mechanism (RCM) market systems support process available to Market Participants for the Wholesale Electricity Market System (WEMS), as at the date of publication.

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Version control

Version	Release date	Changes
1.0	11 August 2023	Initial release
2.0	29 February 2024	Updated for RCM Release 2.2
3.0	21 August 2024	Updated for RCM Release 3.1

AEMO acknowledges the Traditional Owners of country throughout Australia and recognises their continuing connection to land, waters and culture. We pay respect to Elders past and present.

Contents

Tables

Figures

1 Introduction

The purpose of this document is to describe the functions and capabilities of the Wholesale Electricity Market System Market Participant Interface (WEMS MPI) and act as a guide to users. The WEMS MPI is the medium between the Market Participant and AEMO to exchange and submit registration information, trading submissions, and facilitate the extraction of reports.

This document provides information about the Reserve Capacity Mechanism (RCM) portal, which is accessible via WEMS MPI. The RCM portal is used for the following processes:

- Indicative Facility Class (IFC) – Section 4.3.
- Applications for Certified Reserve Capacity (CRC) – Section 4.4.
- Reserve Capacity Security (RCS) – Section 4.6.
- Trade declarations – Section 4.7.
- Consumption Deviation Applications (CDA) for Relevant Demand purposes – Sections 4.8 and 4.9.
- Non-Temperature Dependent Load (NTDL) applications and associated CDAs – Section 4.10.
- Capacity Credit Allocations – Section 4.11.
- Individual Reserve Capacity Requirements (IRCR) – Sections 4.12 and 4.13.
- Reserve Capacity Testing – Section 4.14.

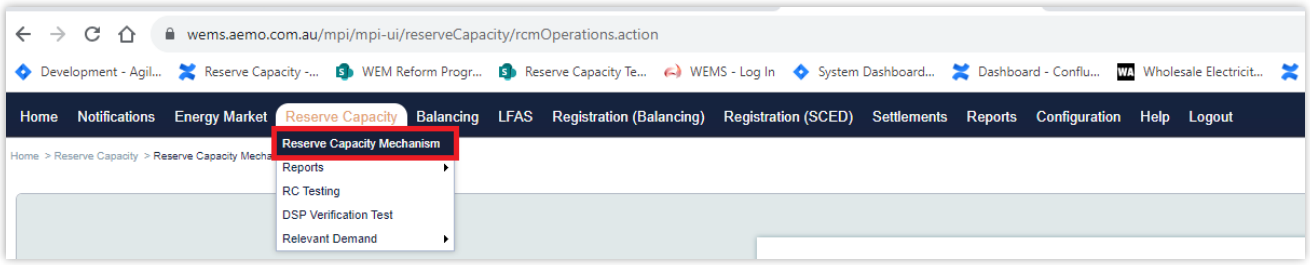
2 System Requirements

Please refer to the WEM Procedure: Data and IT Interface Requirements for more information on the necessary technical details and standards, software and hardware specifications, and security standards required for Market Participants to operate in the Wholesale Electricity Market (WEM).

3 Accessing the System

The RCM portal is accessed by logging into WEMS MPI (https://wems.aemo.com.au/mpi/) and navigating to **Reserve Capacity > Reserve Capacity Mechanism** (see Figure 1).

Figure 1 Accessing the RCM portal



Upon visiting the site, the MPI will require the user to authenticate with their WEMS RSA SecurID token before the user is able to access the MPI (see Figure 2).

Figure 2 WEMS MPI login screen

The RSA SecurID token can be identified by the RSA SecurID dark blue and red logo with white writing (see Figure 3).

Figure 3 RSA SecurID token example

New users must apply for WEMS access by contacting their Market Participant Administrator (MPA) as well as completing the WEMS Token Request Form. This form, along with the RSA Quick Reference Guide, is available on the MPI login page or by emailing wa.operations@aemo.com.au.

New users must also be assigned the appropriate roles by their MPA to ensure they have the correct access privileges. Refer to the Market Participant Administrator Guide for more information.

RSA SecurID tokens are managed and issued by AEMO. Individual roles and user accounts are managed by each MPA.

4 RCM portal user guide

For assistance with NTDL Applications, Capacity Credit Allocation and IRCR please contact WA Prudentials and Settlements at wa.settlements@aemo.com.au. For all other queries relating to Reserve Capacity please contact WA Capacity Market Investment at wa.capacity@aemo.com.au.

4.1 Reserve Capacity Mechanism dashboard

The RCM dashboard ("Home" tab) displays a snapshot of Reserve Capacity information. This includes a summary of the number of Capacity Credits assigned for each price category and the Individual Reserve Capacity Requirement (IRCR) for the selected Capacity Year (see Figure 4 and Table 1). The Facility list includes the price type for each Facility holding Capacity Credits, where the type can be T for the Transitional Reserve Capacity Price, F for the Fixed Reserve Capacity Price, or blank for the Reserve Capacity Price.

Figure 4 RCM dashboard

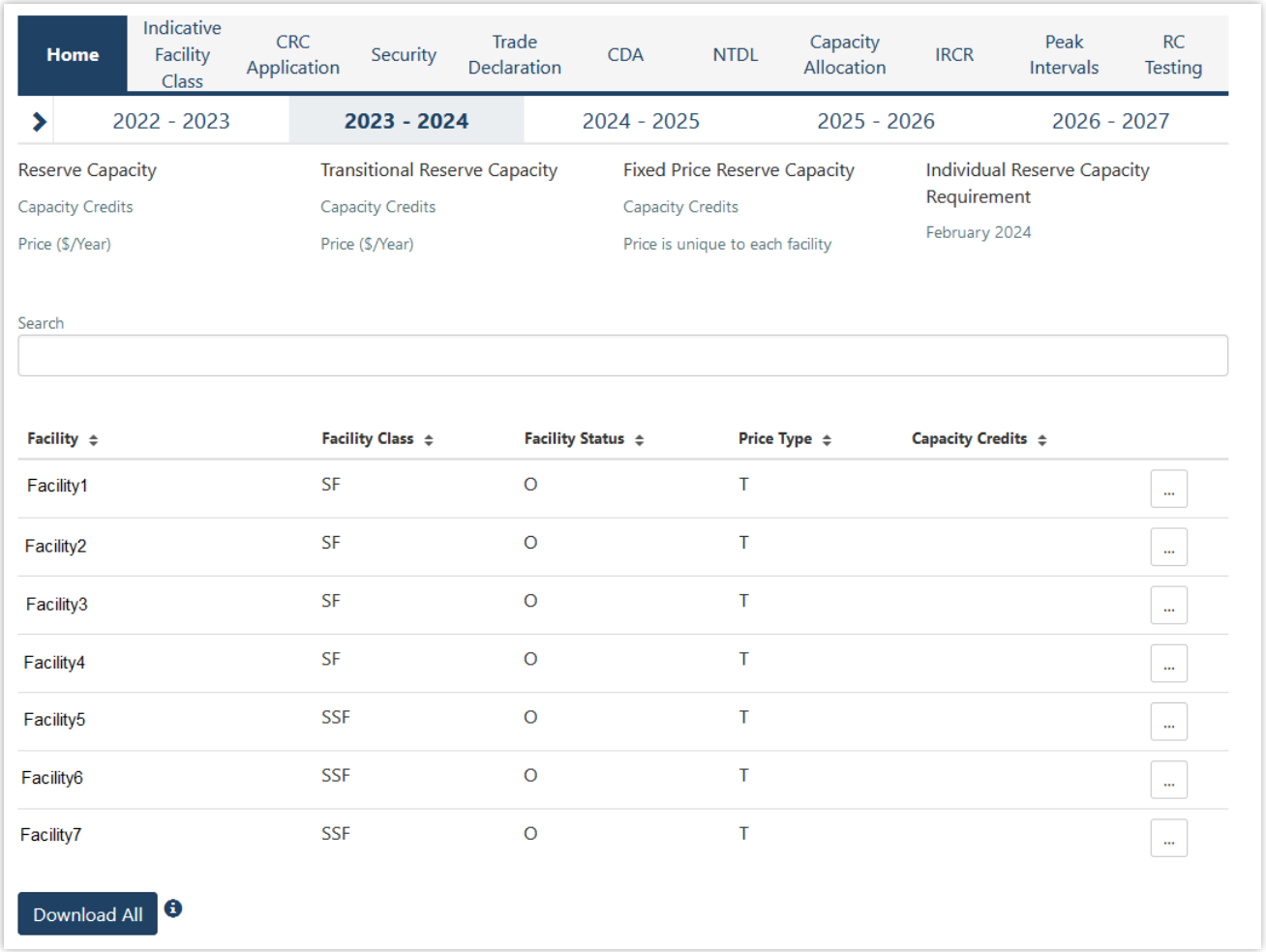


Table 1 RCM dashboard descriptions

Tab Name	Description
Fixed Price Reserve Capacity	The number of Capacity Credits assigned to Facilities that are subject to a Fixed Reserve Capacity Price. The relevant price is not displayed since it is unique to each Facility.
IRCR	The MW quantity determined by AEMO in respect of a Market Customer, in accordance with clause 4.28.7 and, if applicable, as revised in accordance with clause 4.28.11.
Reserve Capacity	The number of Capacity Credits assigned to Facilities that are subject to the Reserve Capacity Price, and the associated price in dollars per MW.
Transitional Reserve Capacity	The number of Capacity Credits assigned to Facilities that are subject to the Transitional Reserve Capacity Price, and the associated price in dollars per MW.

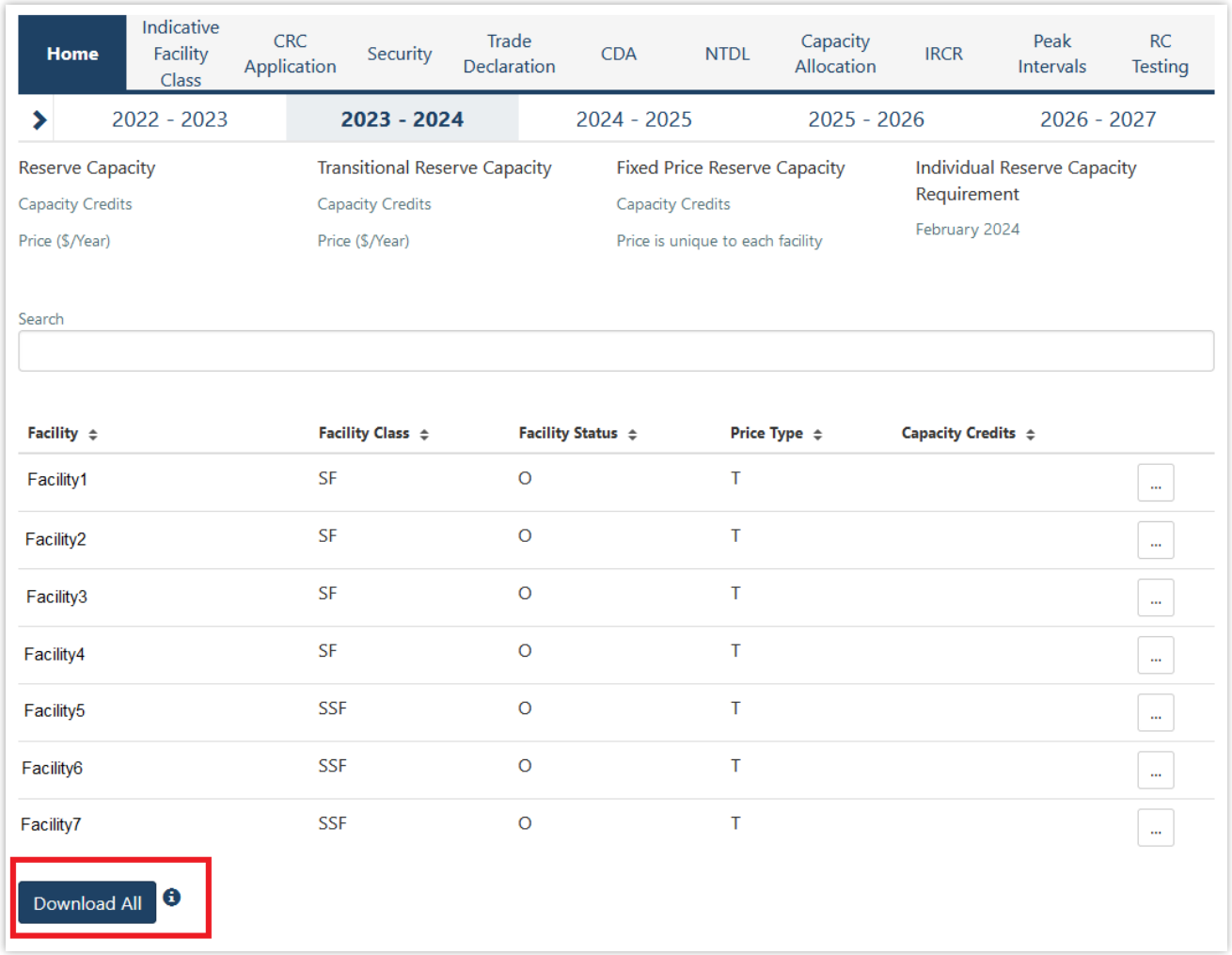
All tabs within the RCM portal are described in Table 2.

Table 2 Description of RCM portal tabs

Tab Name	Description
Capacity Allocation	The allocation of Capacity Credits traded outside of the WEM.
CDA	A Consumption Deviation Application is an application from a Market Customer to AEMO to replaceTrading Intervals, which are considered unrepresentative of the consumption of a Load, for the purpose of determining the Relevant Demand of a DSP.
CRC Application	Applications for Certified Reserve Capacity.
Indicative Facility Class	View the Indicative Facility Class and technology types assigned to each Facility.
IRCR	The Participant Information Reports (PIR) and Log files for the Individual Reserve Capacity Requirement for Trading Months from June 2019 onwards. IRCR information for earlier TradingMonths is available in the Settlements Portal.
NTDL	Non-Temperature Dependent Load Applications and results.
Peak Intervals	Displays the 4 and 12 Peak SWIS Trading Intervals used in the IRCR.
RC Testing	View and download Reserve Capacity Test and Verification Test results for the summer and winter testing periods.
Security	Displays a summary of the Reserve Capacity Security and DSM Reserve Capacity Security held by AEMO.
Trade Declarations	Market Participants nominate how much capacity they intend to trade bilaterally and how much willnot be made available to the market through the trade declaration process.

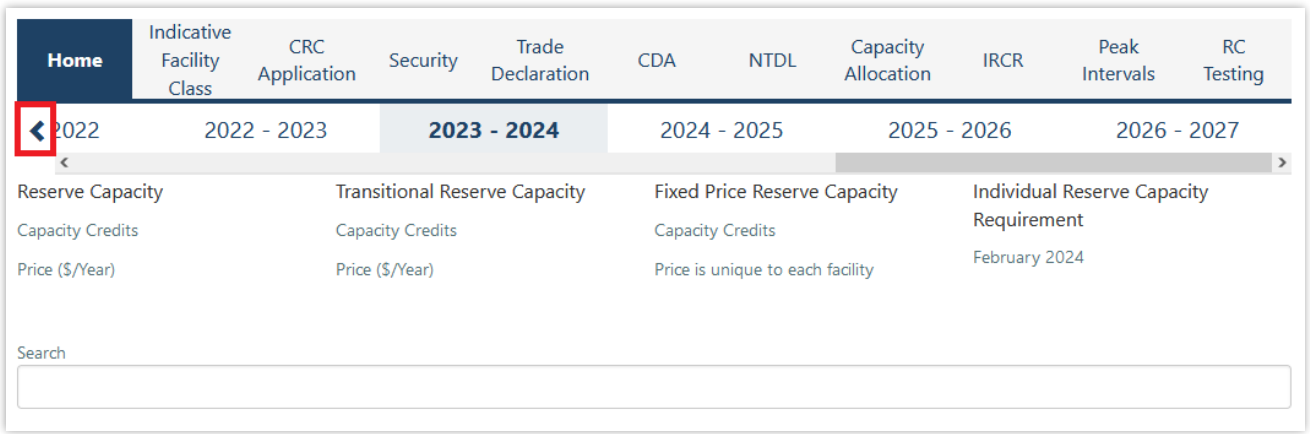
Historical Capacity Credits for all Facilities from all Market Participants participating in the RCM for the respective Capacity Year can be downloaded from the RCM dashboard. This report includes any changes to Capacity Credits throughout the Capacity Year. Navigate to the bottom of the RCM dashboard and click Download All to download the historical Capacity Credit report (see Figure 5).

Figure 5 Historical Capacity Credit report



The RCM portal initially displays the five most recent Capacity Years in the banner above the Reserve Capacity summary information. To view data from previous Capacity Years, click on the arrow in the banner, which will open a horizontal scrollbar (see Figure 6). Click on the arrow to close the horizontal scrollbar.

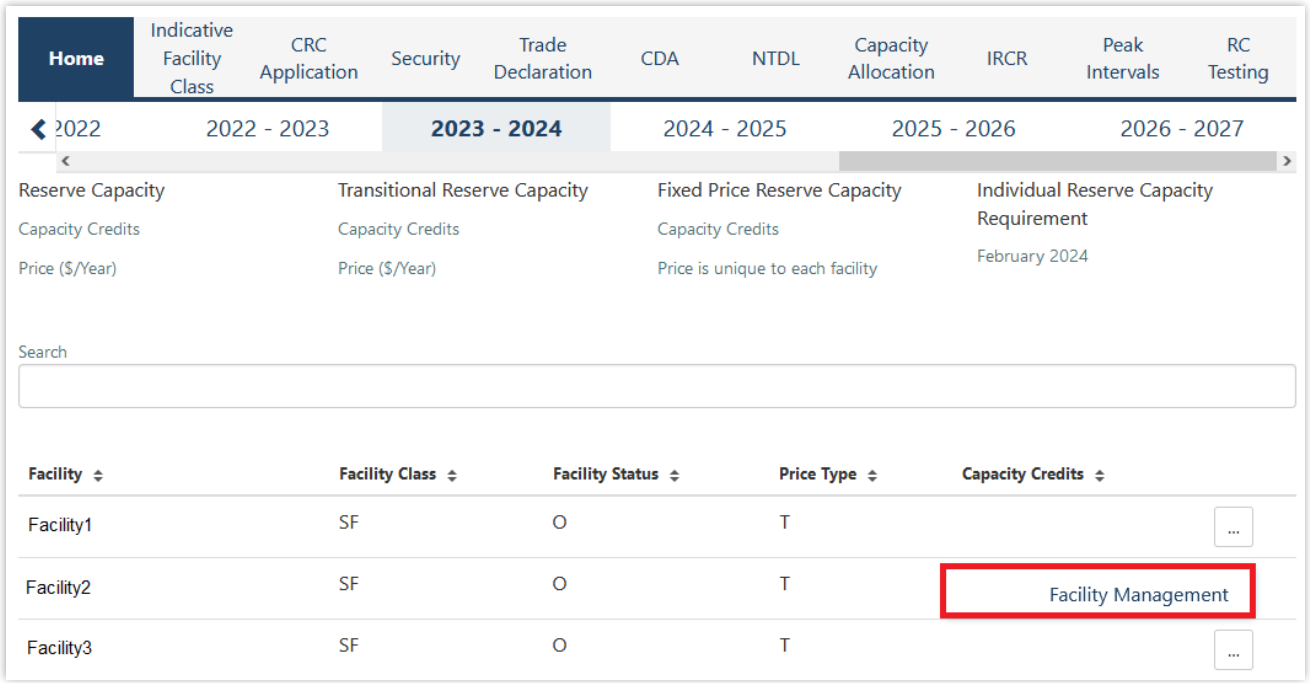
Figure 6 Viewing data for previous Capacity Years



4.2 Facility Management

To access the Facility Management dashboard, select **RCM portal > Home** for the relevant Capacity Year. Select the ellipsis ("…") to the right of the Facility details and select Facility Management (see Figure 7).

Figure 7 Facility Management navigation

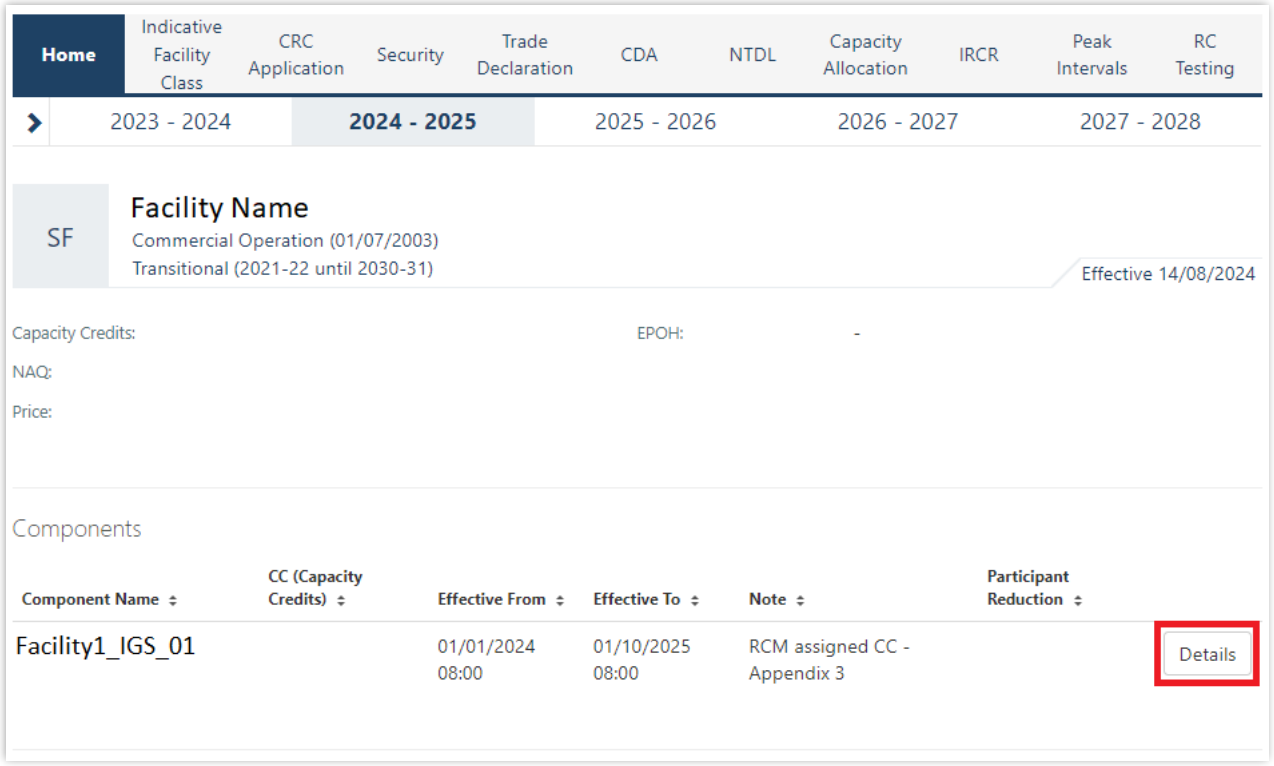


The Facility Management dashboard displays the Facility Class, Equivalent Planned Outage Hours, Capacity Credit information, NAQ, Price Type and duration, and the RC status effective dates (Commercial Operation, Committed or Proposed).

4.2.1 Capacity Credit information

For a Scheduled Facility or Semi-Scheduled Facility, the dashboard displays the Components table which lists the Components associated with the Facility and the latest Capacity Credit information (see Figure 8).

Figure 8 Facility Management dashboard for a Scheduled Facility or Semi-Scheduled Facility



To view a detailed breakdown of Capacity Credit changes for a Component select "Details", which will display the Component Capacity Credit timeline and Required Level information (see Figure 9).

Figure 9 Component Capacity Credit timeline

For a Non-Scheduled Facility or Demand Side Programme, the dashboard displays the Capacity Credit changes for the Facility in the Capacity Credit timeline (see Figure 10).

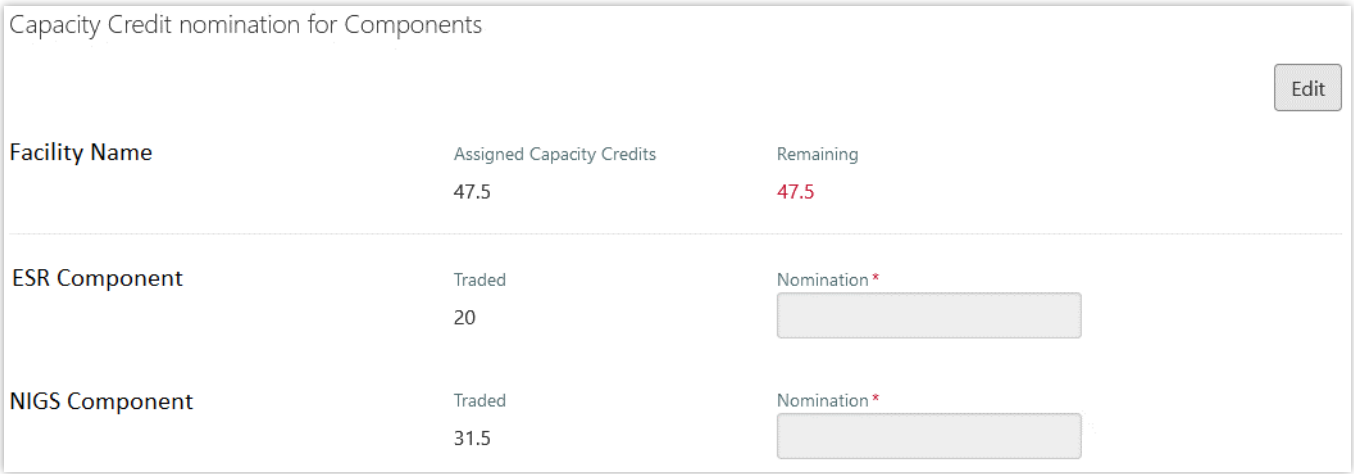
Figure 10 Facility Management dashboard for Non-Scheduled Facility or Demand Side Programme

4.2.2 Nomination of Capacity Credits assigned to components

This section should be read in conjunction with clause 4.20.16 of the WEM Rules.

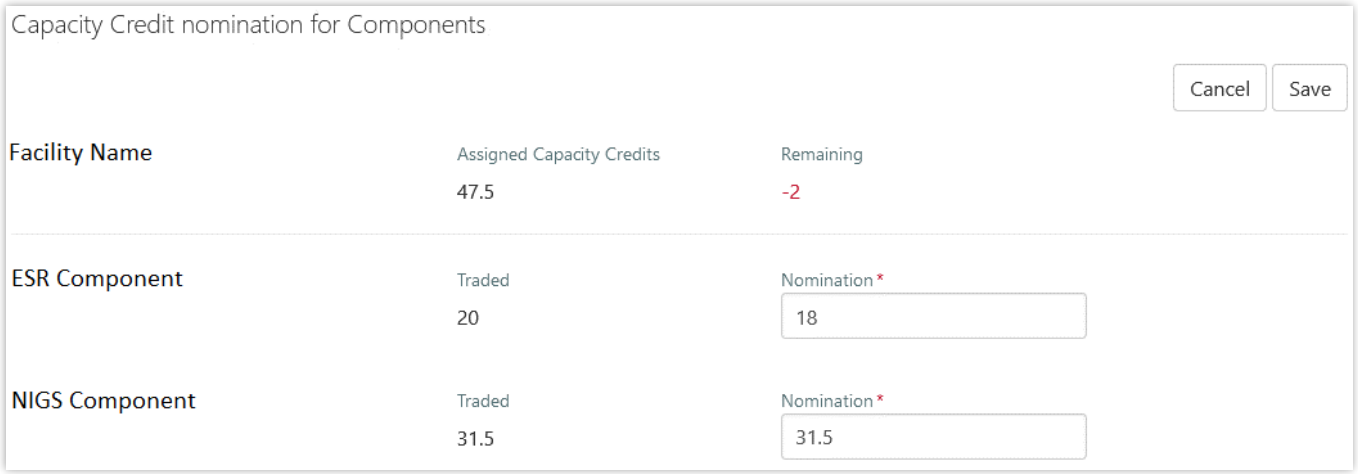
When a Facility has multiple components or component upgrades, and the assigned Capacity Credits is less than the Traded CRC (i.e. the NAQ has reduced the Facility's capacity), the Market Participant must nominate the quantity of Capacity Credits to be assigned to each component. This nomination is made through the Facility Management page in the RCM Portal (see Figure 11).

Figure 11 Initial view



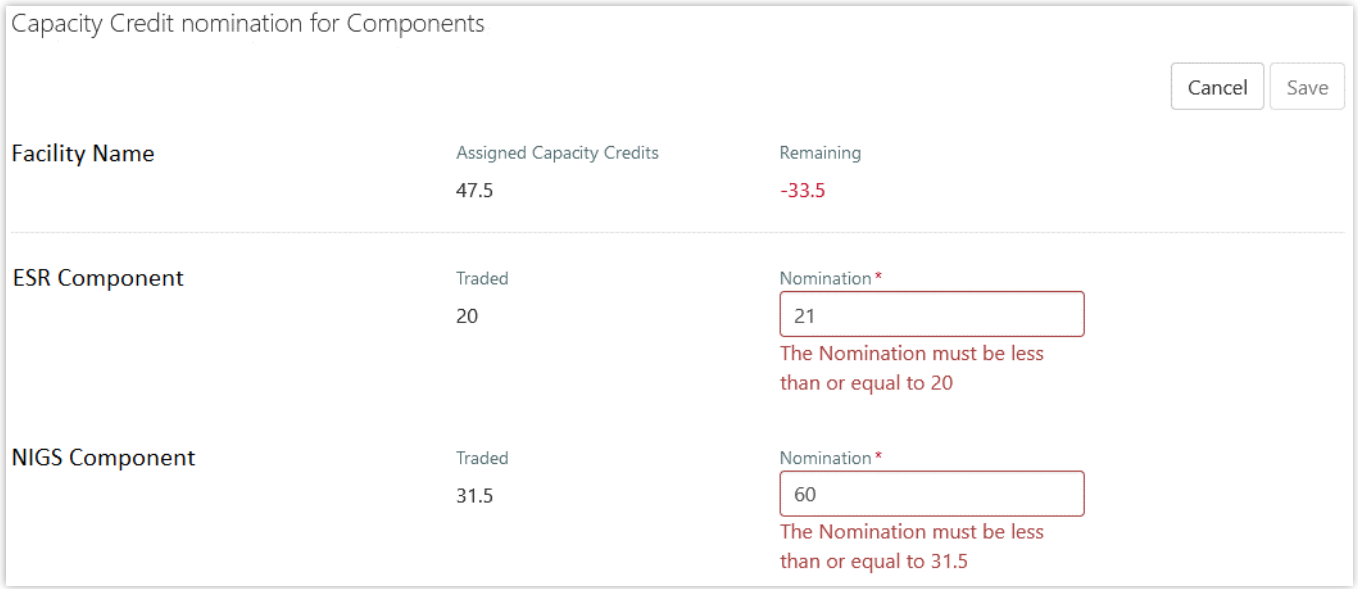
Clicking the Edit button will allow the Nomination fields to be updated (see Figure 12). The Remaining quantity will update as the nomination changes. Clicking the Cancel button clears the nominations and returns the page to read-only.

Figure 12 Edit view



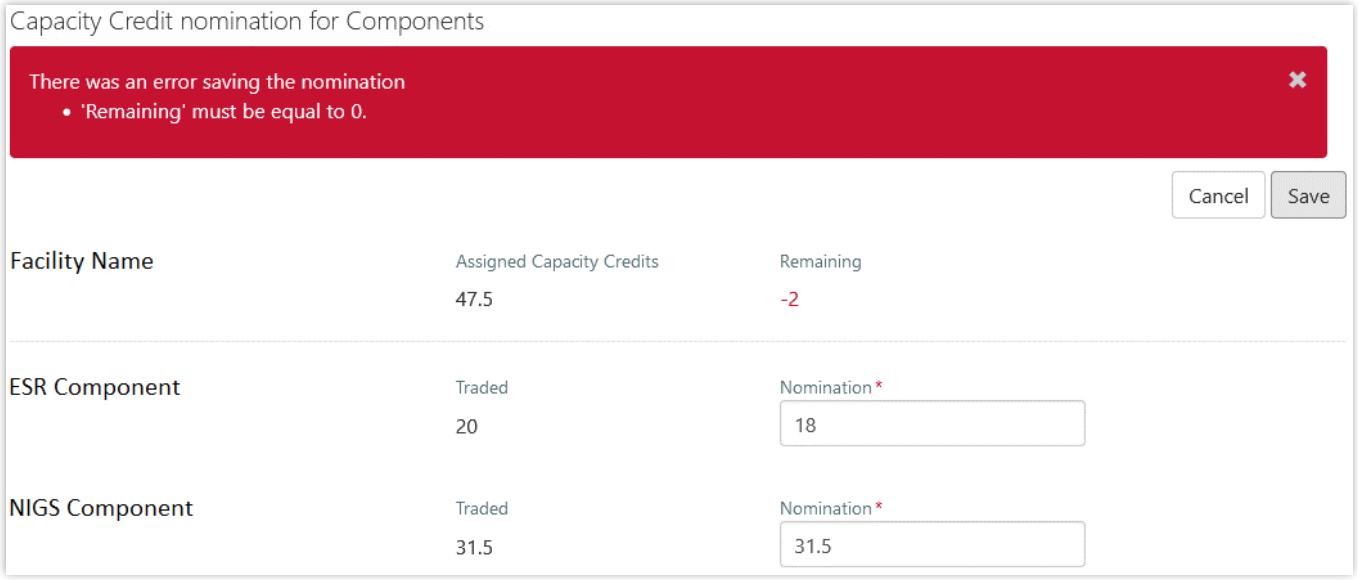
The nomination must be less than or equal to the Traded CRC for the applicable component or upgrade. If it is not, then a validation message will be displayed and the Save button will be disabled (see Figure 13).

Figure 13 Nomination validation



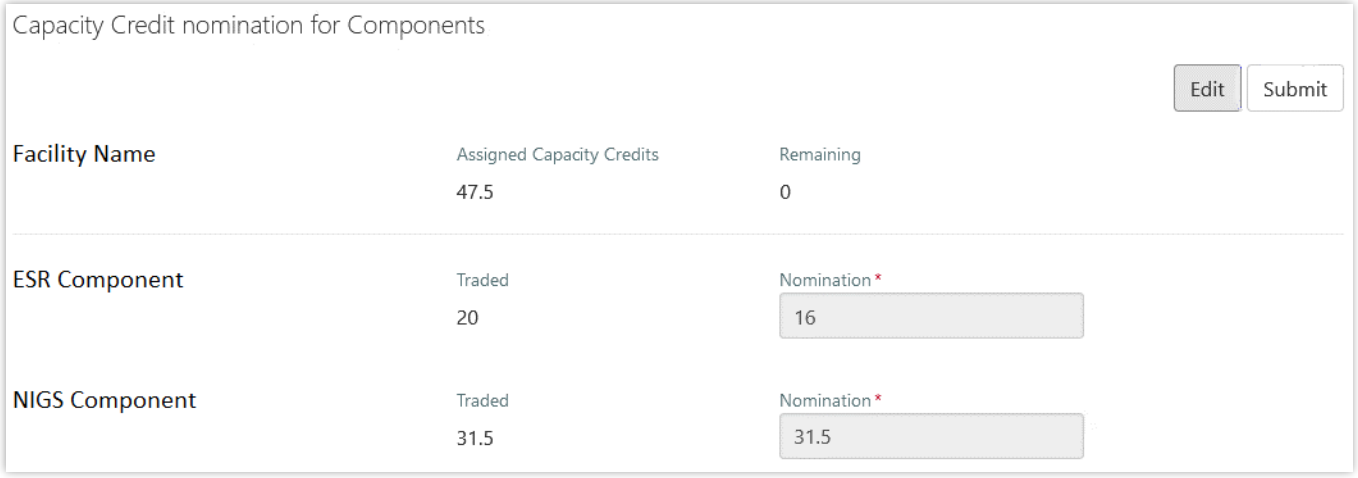
Clicking the Save button will validate if the Nomination amount equals the Assigned Capacity Credits. An error message will display if Remaining does not equal zero (see Figure 14).

Figure 14 Error message



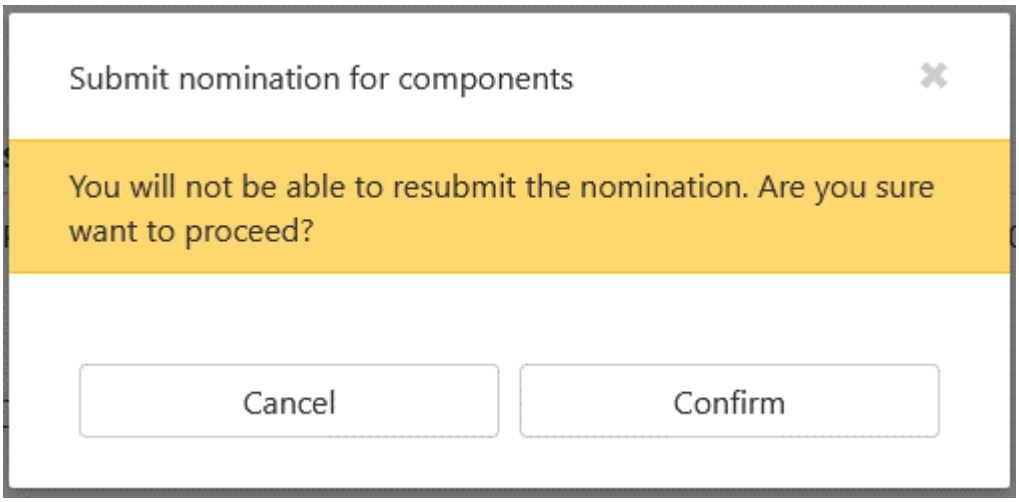
On successfully saving the nomination, the Submit button will become available (see Figure 15).

Figure 15 Submit nomination



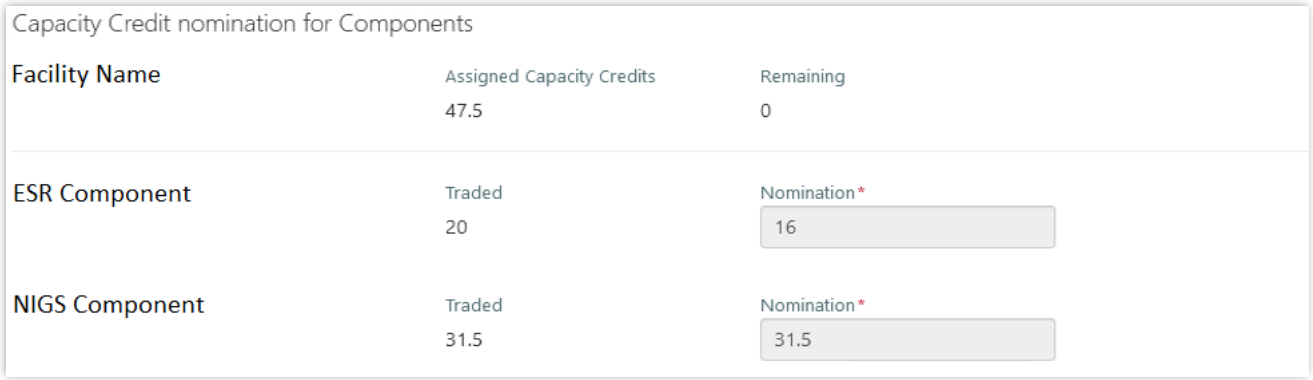
A pop-up window will display asking the user to confirm the nomination (see Figure 16). Click Confirm in the pop-up window to commit the nomination, or click the Cancel button to return to editing the nomination. Clicking confirm will display a message that the nomination is saved successfully.

Figure 16 Confirm nomination



Once the nomination has been confirmed, it cannot be changed (see Figure 17). The nomination may be viewed in the Facility Management page but cannot be edited or re-submitted.

Figure 17 Completed nomination

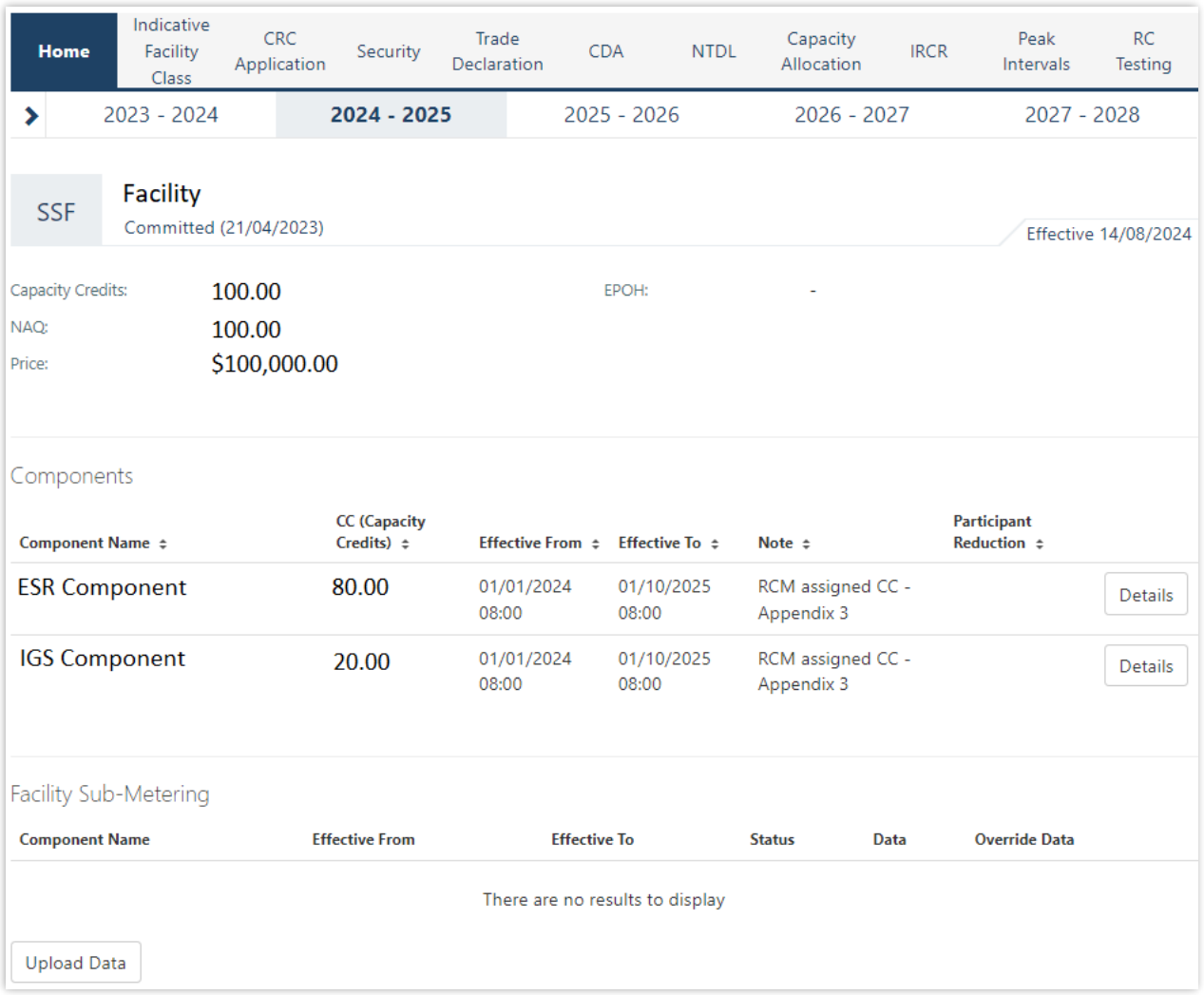


4.2.3 Facility Sub-Metering

This section should be read in conjunction with the WEM Procedure: Facility Sub-Metering.

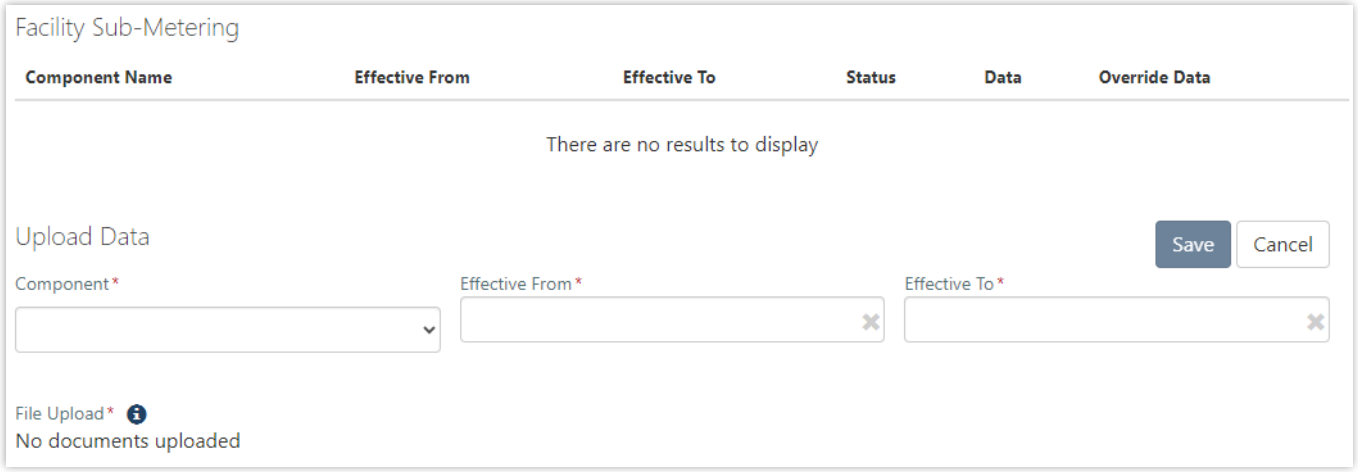
Facility Sub-Metering data is submitted through the Facility Management page (see Figure 18). The Facility Sub-Metering section will only appear for Facilities that have multiple components with assigned Capacity Credits.

Figure 18 Facility Sub-Metering user interface



Clicking on the Upload Data button will expand the interface (see Figure 19). A template file can be downloaded from underneath the file upload box. All fields are mandatory (denoted by the red asterisk) and must not be empty to enable the Save button. Clicking in the Component field opens a drop-down box allowing the user to select the component from a pre-filled list of options that includes all the Facility's components.

Figure 19 Upload user interface



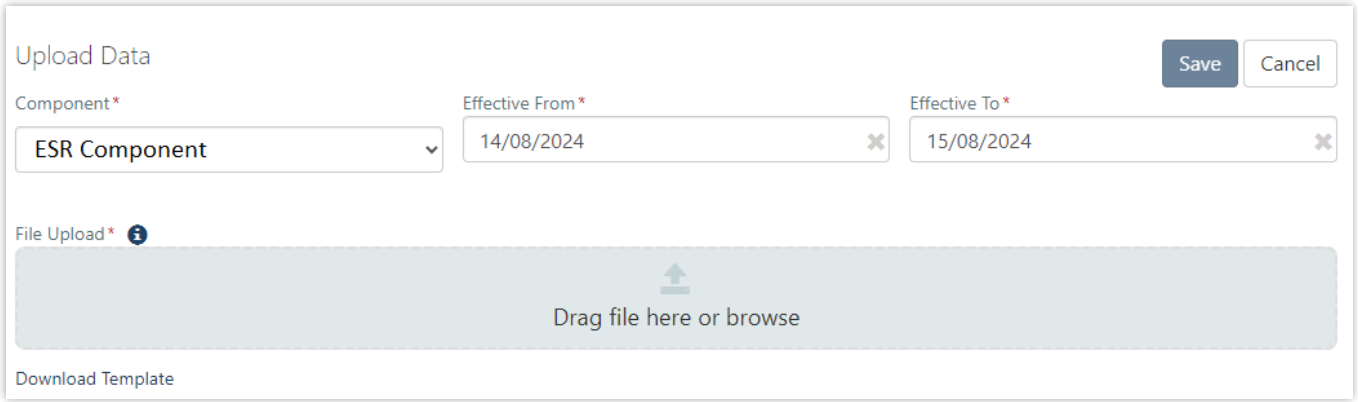
Validations are applied to the Effective From and Effective To dates to ensure that:

- The Effective From date is before the Effective To date.
- Both dates are within the relevant Capacity Year.
- The format is dd/mm/yyyy.

The Save button will be disabled if the user enters dates that do not conform to these validations.

Once the component has been selected and the Effective From and Effective To dates have been entered, the File Upload box will become visible (see Figure 20). A data file can be uploaded by dragging and dropping or clicking inside the box to allow the user to select a file.

Figure 20 File Upload displayed



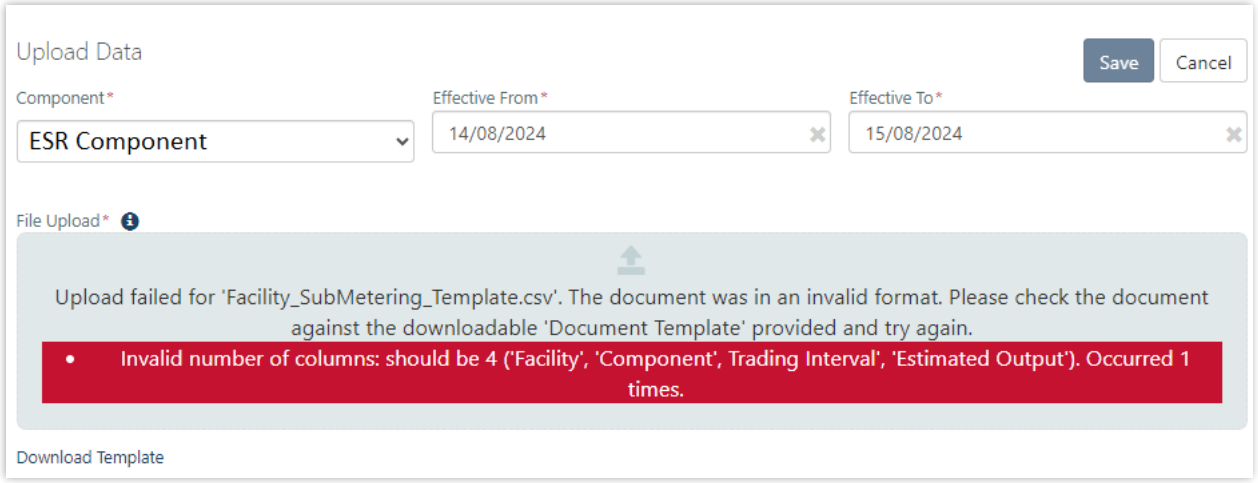
The Facility Sub-Metering data upload file is validated as follows:

- File type is csv.
- Headers are correct and all columns are included in the file according to the template.
- All columns of the csv contain data.

- Trading Interval format is dd/mm/yyyy hh:mm.
- Component name in the csv matches the component name selected in the drop-down list.
- Data is for the period entered into the Effective From and Effective To date fields (e.g. if the Effective From date is 01/10/2024 and the Effective To date is 31/10/2024, the uploaded file must include all Trading Intervals between 08:00 01/10/2024 to 07:30 01/11/2024 inclusive).
- Trading Intervals in the csv are within the relevant Capacity Year (e.g. for the 2024-25 Capacity Year data must be within the period 08:00 01/10/2024 to 07:30 01/10/2025 inclusive).

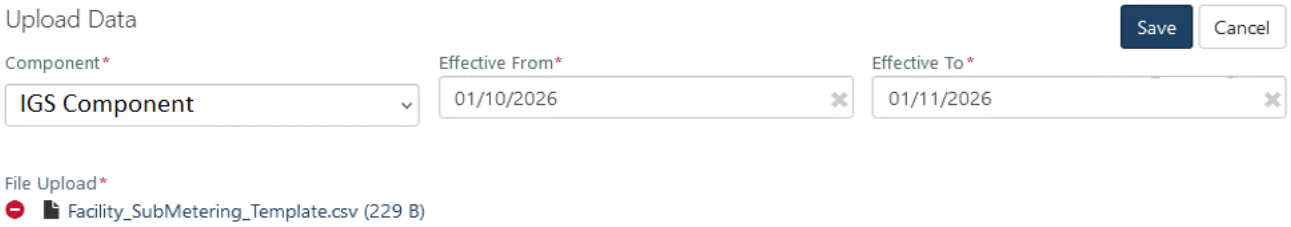
An error message will be displayed if the file does not pass any of these validations (see Figure 21).

Figure 21 Error message example



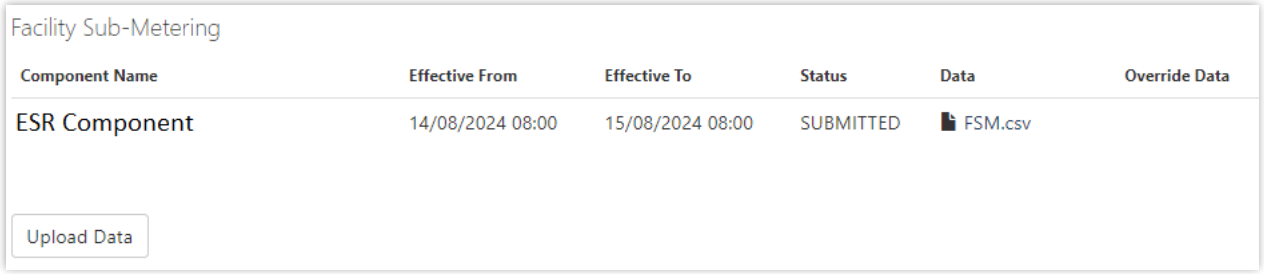
The Save button will be activated when all fields have been entered and a valid file has been uploaded (see Figure 22).

Figure 22 Active Save button when all information is entered and validated



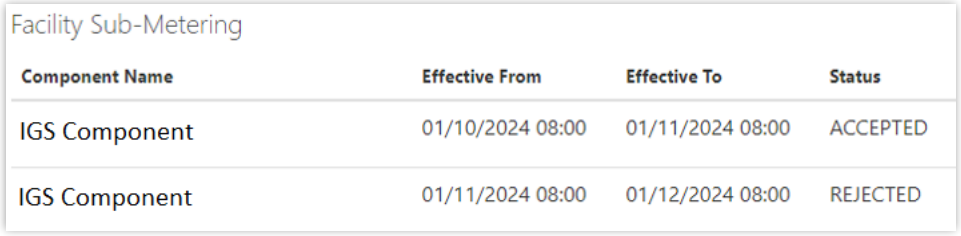
Clicking on the Save button will submit the Facility Sub-Metering data for AEMO's review (see Figure 23). The data can be downloaded by clicking the link under the Data column in the table. The Market Participant may upload a subsequent Facility Sub-Metering data file for a different period.

Figure 23 Submitted Facility Sub-metering data



The status will update to ACCEPTED or REJECTED once AEMO has processed the Facility Sub-Metering data (see Figure 24). The Market Participant will be notified of AEMO's decision by an automated email. If AEMO rejects the Facility Sub-Metering data, the Market Participant will be able to upload a new file for the same dates.

Figure 24 Assessed FSM



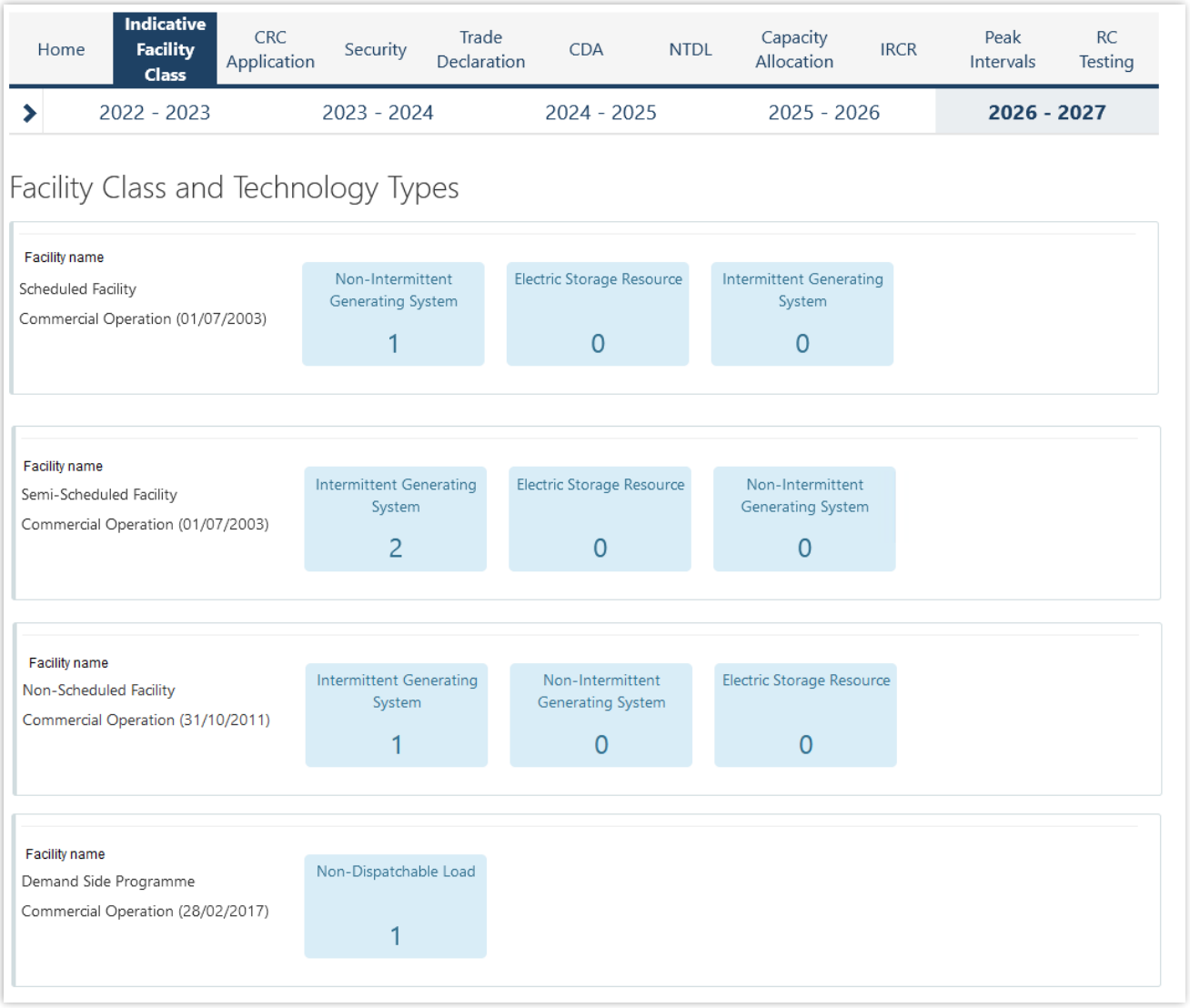
In some circumstances (for example, an error in the data is identified after it has been accepted), AEMO may override the data with a replacement file. If AEMO overrides the Facility Sub-Metering data, the Status will show as OVERRIDDEN.

4.3 Indicative Facility Class

This section must be read in conjunction with the WEM Procedure: Indicative Facility Class https://www.aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/proceduresand clause 4.8A of the WEM Rules.

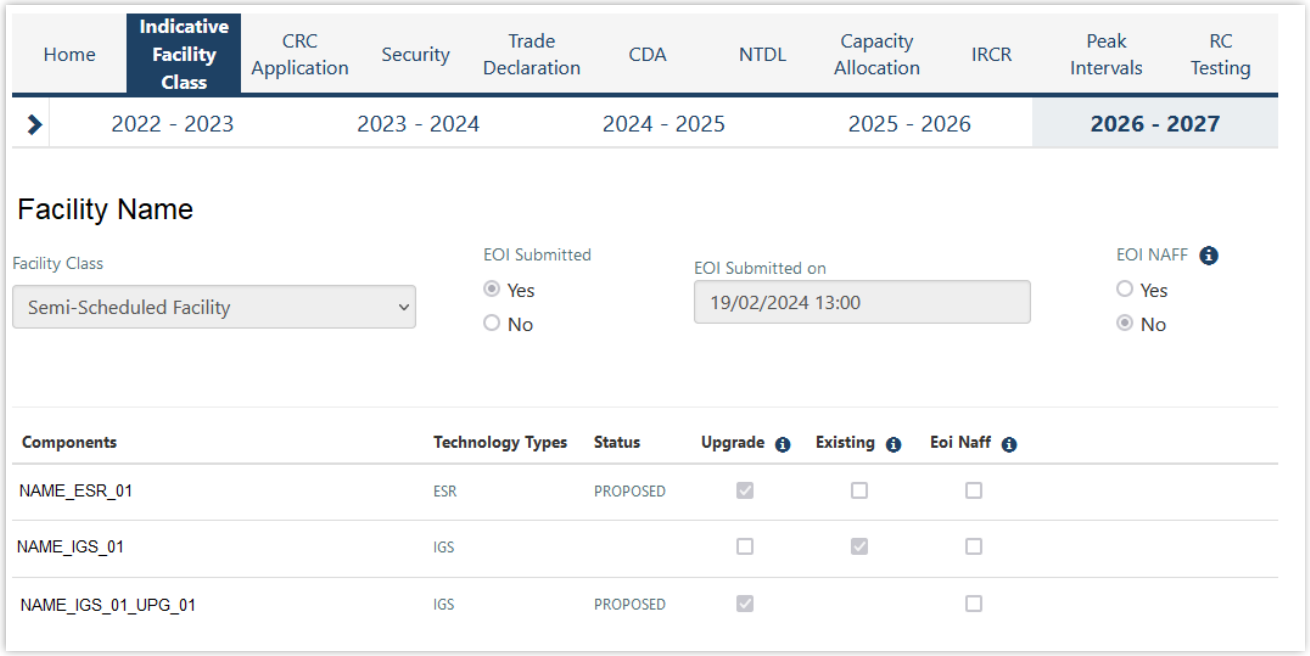
To access the IFC homepage, select **RCM Portal > Indicative Facility Class** for the relevant Capacity Year. The IFC tab displays summary information about each of the Market Participant's Facilities, including the Facility Class, Reserve Capacity Status, and the technology types that are associated with the Facility shown as boxes (see Figure 25). A technology type box will display a count of two if a Facility has a component upgrade for that technology type.

Figure 25 IFC tab homepage with summary information by Facility



Clicking on a Facility name will navigate to a detailed IFC page for the Facility (see Figure 26). The detailed view displays the Facility Class, the Expression of Interest (EOI) submission status and time, and whether the Facility was nominated to be treated as a Network Augmentation Funding Facility (NAFF) in the EOI. The components table displays the components and component upgrades that have been created for the Facility, including the technology type, Reserve Capacity Status, and checkboxes indicating whether the component is existing or an upgrade, or has been nominated as a NAFF.

Figure 26 IFC detailed view for a Facility



4.4 Certified Reserve Capacity Applications

This section must be read in conjunction with the WEM Procedure: Certification of Reserve Capacity and clauses 4.9 and 4.10 of the WEM Rules.

To access the CRC application homepage, select **RCM Portal > CRC Application** for the relevant Capacity Year. The CRC Applications tab displays the Market Participant's Facilities, the Facility Class, Reserve Capacity Status, Application Status, and a timestamp showing when the application was submitted (see Figure 27).

Figure 27 CRC application tab homepage

The Application Status is described in Table 3.

Table 3 Application status description

Status	Description
OPEN	The certification window for the relevant Capacity Year is open and the user can submit a CRC application to AEMO.
PENDING	The application has been edited and saved but is yet to be submitted to AEMO.
SUBMITTED	The application has been submitted to AEMO for review.
WITHDRAWN	The submitted application was withdrawn by the user prior to the closure of the certification window.
LAPSED	The application was not submitted prior to the closure of the certification window.
ACCEPTED	AEMO has accepted the CRC application.
REJECTED	AEMO has rejected the CRC application.

The Facility Class reflects the Indicative Facility Class or Registered Facility Class, as relevant to the Facility.

Note: Early or Conditional CRC applications cannot be submitted through the RCM Portal. Market Participants wishing to make these types of submission should contact WA Capacity Market Investment at wa.capacity@aemo.com.au.

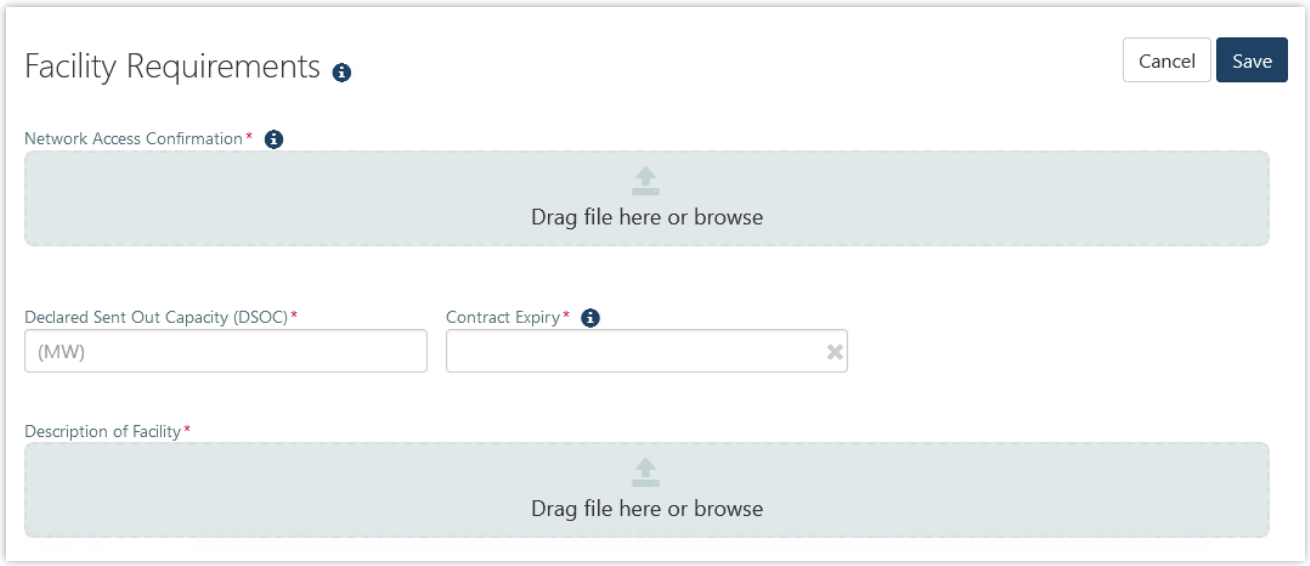
4.4.1 Facility CRC application

When a Market Participant user clicks on the name of a Facility, a new page opens which displays static information about the Facility (see Figure 28).

Figure 28 Static information in the Facility CRC application

When the page is in edit mode (after clicking the 'Edit' button), Market Participants can enter information into the Facility's CRC application (see Figure 29). This can include document uploads or data entry fields.

Figure 29 Example Facility CRC application in edit mode



Mandatory fields that are required to be completed to submit the application are denoted by a red asterisk. The 'Cancel' button discards all changes made, while the 'Save' button updates the database with the information entered. Market Participants may save their application and return to it later to continue working.

4.4.2 Components and upgrades

Scheduled Facilities and Semi-Scheduled Facilities will have components (including upgrades) listed in a table in the Facility CRC application page (see 30). Clicking on the Component name in the table will open a new page showing static information for the component.

Figure 30 Component table in CRC applications

Components

Components	Technology Type	Assigned CRC (MW)	Include	Updated On
Component 1	Electric Storage Resource	-	INCLUDED	dd/mm/yyyy hh:mm
Component upgrade 1	Electric Storage Resource	-	INCLUDED	dd/mm/yyyy hh:mm
Component 2	Intermittent Generating System	-	INCLUDED	dd/mm/yyyy hh:mm

The Component CRC Application page includes a 'Back' button that returns the user to the Facility's CRC application page (see Figure 31). When the page is in edit mode, the checkbox to include the component in the CRC application can be selected, indicating that the Market Participant would like to apply for CRC for the component. Only components where this checkbox has been selected will be assessed by AEMO. Applications must include at least one component.

Figure 31 Static information in the component page

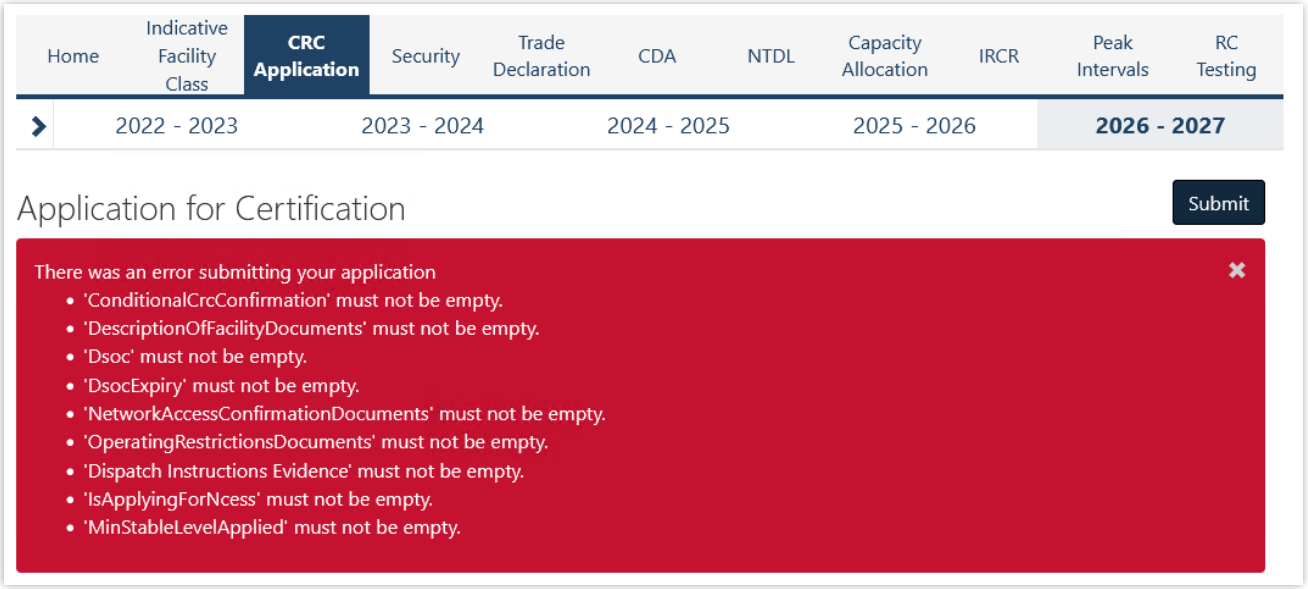
Note: A table of components is displayed for Non-Scheduled Facilities but clicking on a component name does not navigate to a component page. Non-Scheduled Facilities are assessed as a whole Facility, with the components automatically included in the application.

4.4.3 Submitting a CRC application

When the Market Participant user has finished editing the CRC application and clicked 'Save', the 'Submit' button will become available on the Facility page. On clicking 'Submit', the RCM portal verifies that all mandatory fields have been completed on both the Facility and component pages.

If information is missing for a mandatory field, an error message will display, detailing the missing information (see Figure 32).

Figure 32 Submit button and error message example on the Facility CRC application

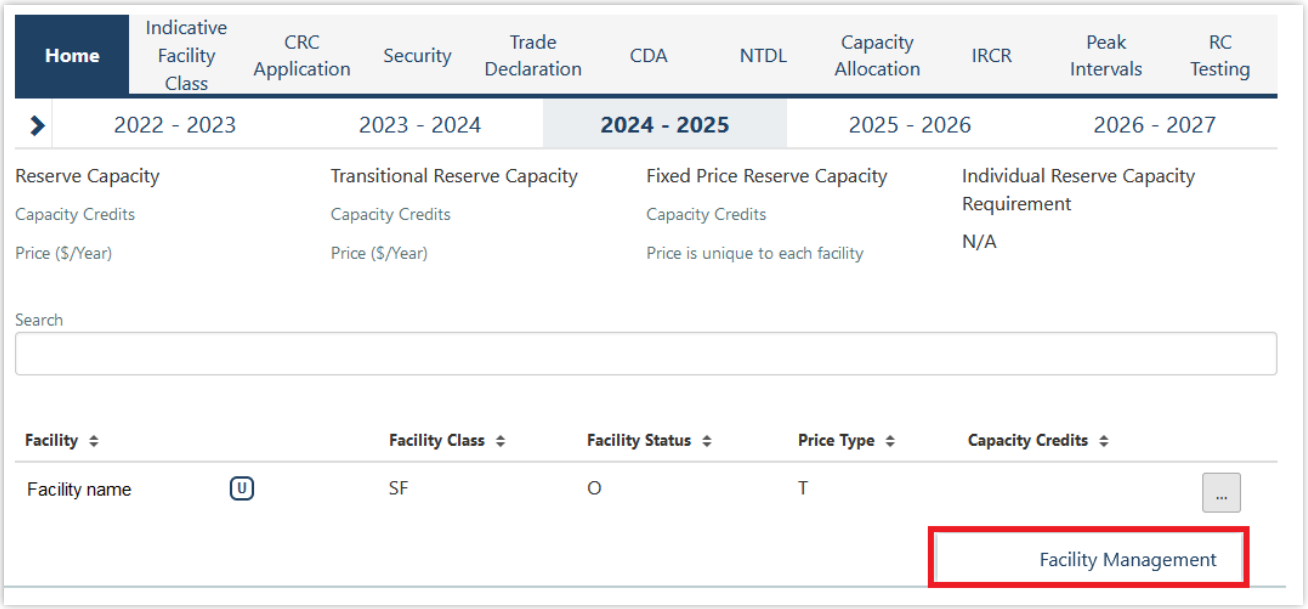


Note: There is no 'Submit' button on the component page. The 'Submit' button on the Facility page submits the CRC application for the Facility and any components where the checkbox to include the component has been selected.

4.5 Upgrades

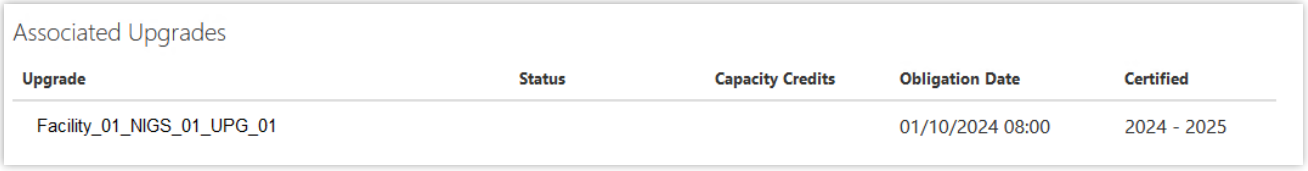
Once an Upgrade has been assigned Capacity Credits, a user can view the Facility Upgrade details in the Facility Management dashboard for the relevant Capacity Year. Select the ellipsis ("…") to the right of the Facility details and select Facility Management (see Figure 33). A Facility with an Upgrade will be marked with a "U" symbol.

Figure 33 Home tab with Facility upgrade icon displayed



The Associated Upgrades table displays the Upgrade Name, Reserve Capacity Status, Capacity Credits information, and Obligation Date (see Figure 34).

Figure 34 Associated Upgrades table



To update the Reserve Capacity Status of an Upgrade, please contact WA Capacity Market Investment at wa.capacity@aemo.com.au.

4.6 Reserve Capacity Security

This section should be read in conjunction with the WEM Procedure: Reserve Capacity Security.

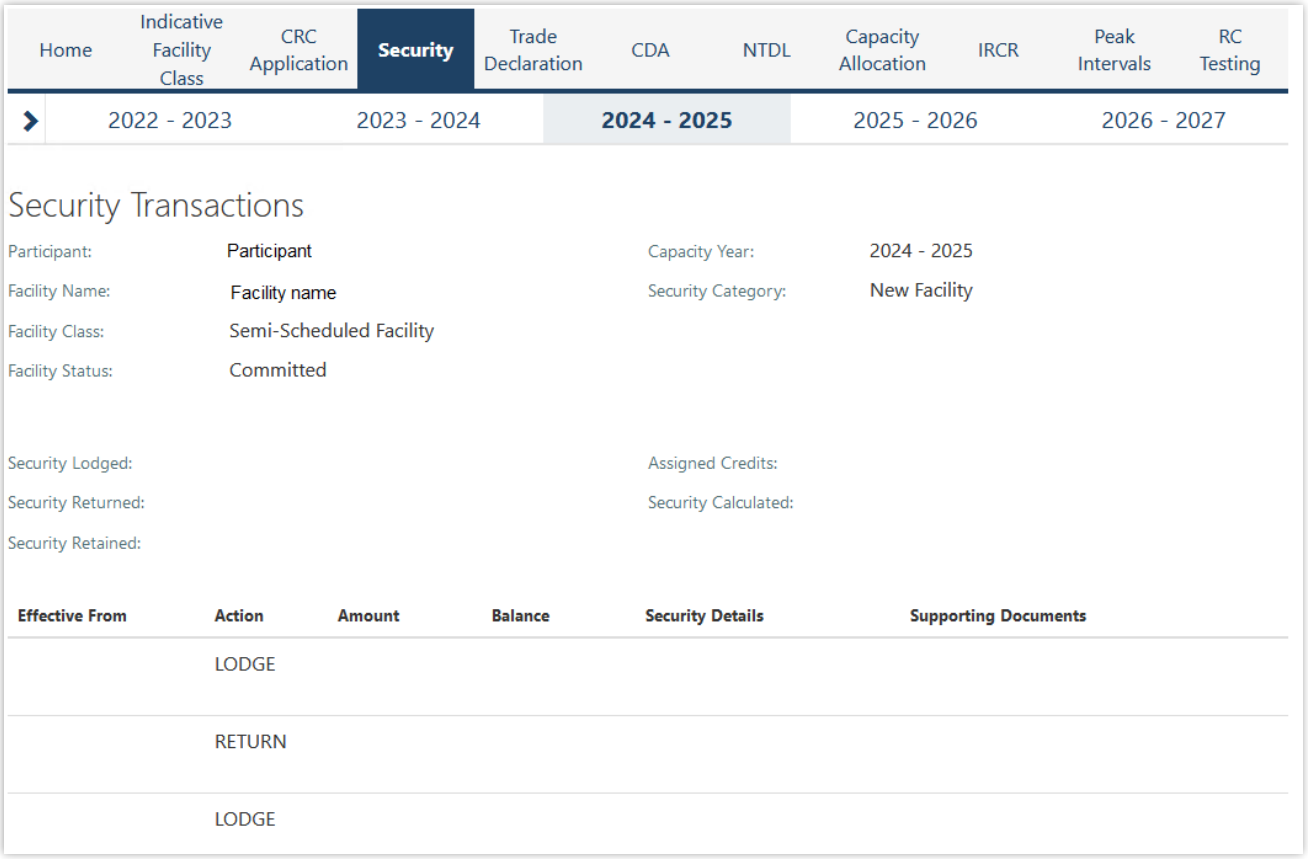
To view the Reserve Capacity Security or DSM Reserve Capacity Security, select **RCM portal > Security.**

The Security tab displays a snapshot of Reserve Capacity Security or DSM Reserve Capacity Security details for the relevant Capacity Year (see Figure 35). Facilities with upgrades will be marked with a 'U' symbol.

Figure 35 Security display

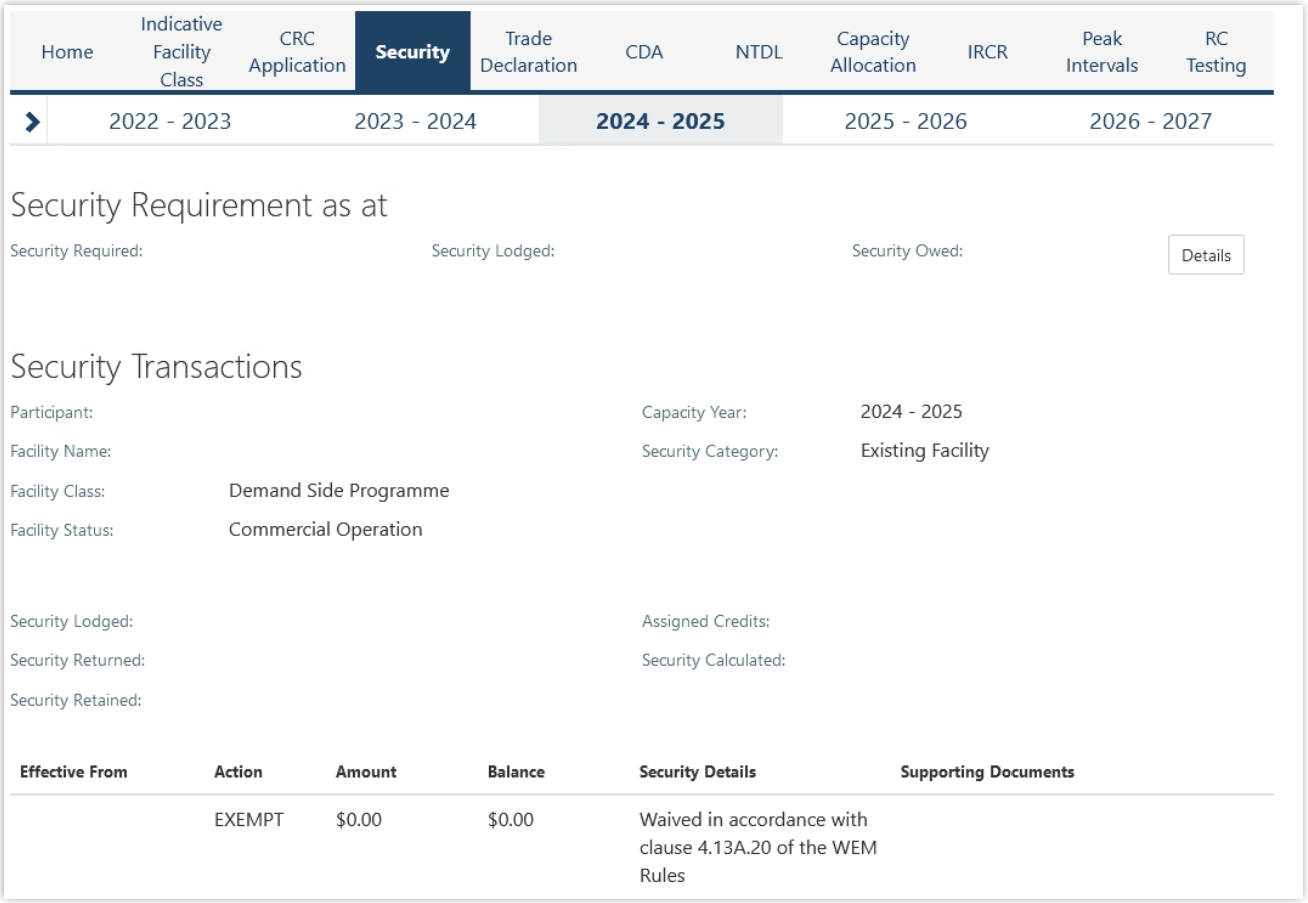
The user can click on the Facility name to view more detail regarding the Security Transactions (see Figure 36).

Figure 36 Security Transactions information



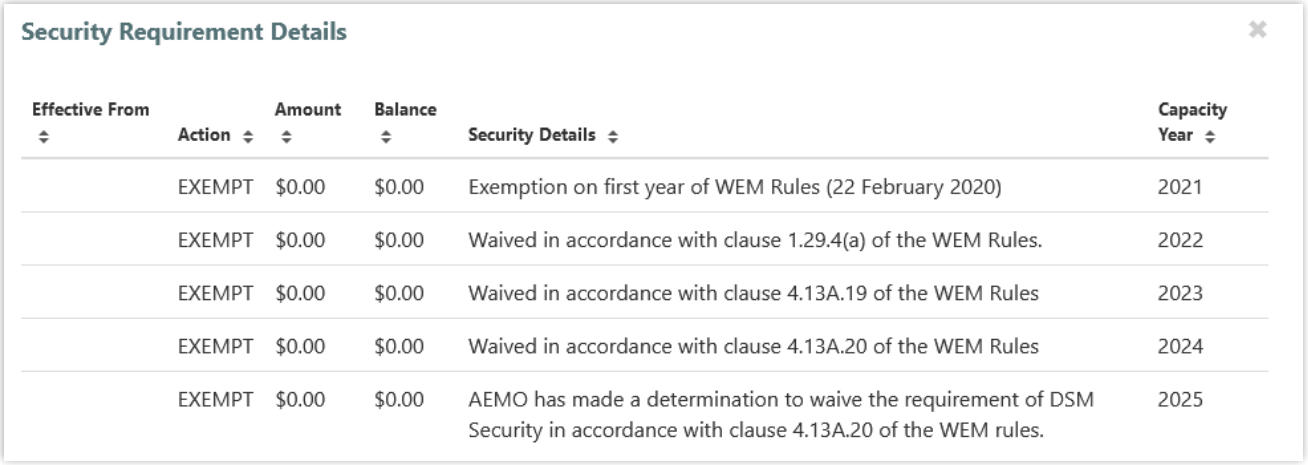
For a DSP, the Security Requirement section assists in implementing the requirements from clauses 4.13A.3 and 4.13A.4 of the WEM Rules (see Figure 37).

Figure 37 Security page for DSP



Clicking on the 'Details' button in the Security Requirement section (shown in Figure 37) will open a window that displays all security transactions made for the DSP by the Market Participant (see Figure 38).

Figure 38 'Details' window showing all security transactions for DSP



Effective From	Action	Amount	Balance	Security Details	Capacity Year
	EXEMPT	$0.00	$0.00	Exemption on first year of WEM Rules (22 February 2020)	2021
	EXEMPT	$0.00	$0.00	Waived in accordance with clause 1.29.4(a) of the WEM Rules.	2022
	EXEMPT	$0.00	$0.00	Waived in accordance with clause 4.13A.19 of the WEM Rules	2023
	EXEMPT	$0.00	$0.00	Waived in accordance with clause 4.13A.20 of the WEM Rules	2024
	EXEMPT	$0.00	$0.00	AEMO has made a determination to waive the requirement of DSM Security in accordance with clause 4.13A.20 of the WEM rules.	2025

Relevant fields of the Security Transactions are described in Table 4.

Table 4 Security field description

Field Name	Field Description
Status	The current RC Status of the Facility/Upgrade/DSP (Proposed (P), Committed (C), CommercialOperation (CO)) and the effective date.
Security Calculated	• For a generator, the amount of RCS the Market Participant is required to provide to AEMO for the relevant Facility/Upgrade. • For a DSP, the amount of RCS calculated for the relevant Capacity Year.
Security Category	RCS is required for Upgrades, New Facilities, and DSPs.
Component	List of all upgrades that have been included in the Security Required amount calculation.
Security Lodged	The cumulative amount of RCS held by AEMO, less any amount retained.
Security Owed	Calculated as DSM RCS required less DSM RCS lodged and represents the amount of DSM RCS that must be paid by the Market Participant.
Security Required	The maximum amount of DSM RCS calculated for each active Capacity Year. It may not equal the Security Calculated for the current Capacity Year.
Security Returned	RCS which has been returned to the Market Participant.
Security Retained	RCS which has been retained by AEMO.
Action	The last RCS transaction with AEMO (LODGE, RETURN, RETAIN).
Amount	The amount of RCS relating to the relevant security transaction (Action).
Balance	The total RCS balance held with AEMO.
Security Details	The type of RCS (Bank Undertaking, Cash Deposit) or any other information AEMO considersrelevant.
Supporting Documentation	The supporting documents for the relevant RCS uploaded by AEMO.

4.7 Trade Declarations

This section should be read in conjunction with the WEM Procedure: Declaration of Bilateral Trades. The Trade Declaration tab in the RCM Portal allows Market Participants to submit trade declarations for Facilities, components, and upgrades that have been assigned CRC in the relevant Capacity Year. The Trade Declaration tab displays the opening and closing dates, as well as summary information about the Market Participant's trade declarations for its Facilities (see Figure 39).

Figure 39 Trade declaration display

For Scheduled Facilities and Semi-Scheduled Facilities, each record will include at least one component, and may include upgrades (if applicable), based on the information from the Facility's CRC application. If a component or upgrade was either excluded from the CRC application or rejected by AEMO, it will not appear in the Facility's trade declaration.

Trade declarations for Non-Scheduled Facilities and Demand Side Programmes are completed at the Facility level and components will not be displayed. Non-Scheduled Facility upgrades appear separately to the parent Facility.

To update a trade declaration, click on the 'Edit' button to allow the 'Traded' and 'Unavailable' fields to be edited. For a Scheduled Facility or Semi-Scheduled Facility, these fields are editable at the component (or upgrade) level (see Figure 40), while for a Non-Scheduled Facility or Demand Side Programme, the fields are editable at the Facility level (see Figure 41). Click 'Save' when editing is complete.

Figure 40 Edit a trade declaration for a Scheduled Facility or Semi-Scheduled Facility

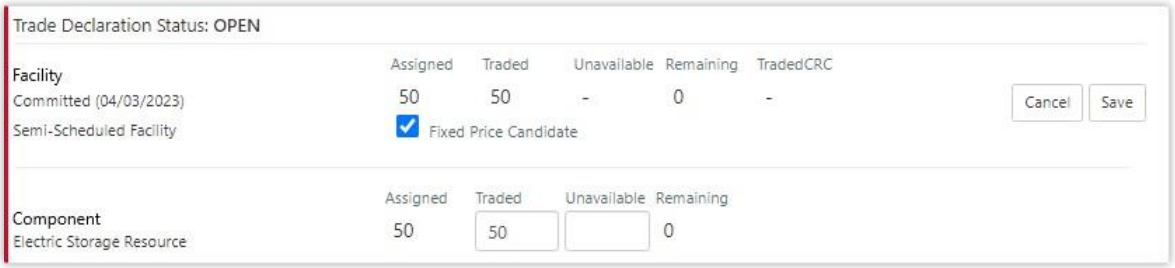
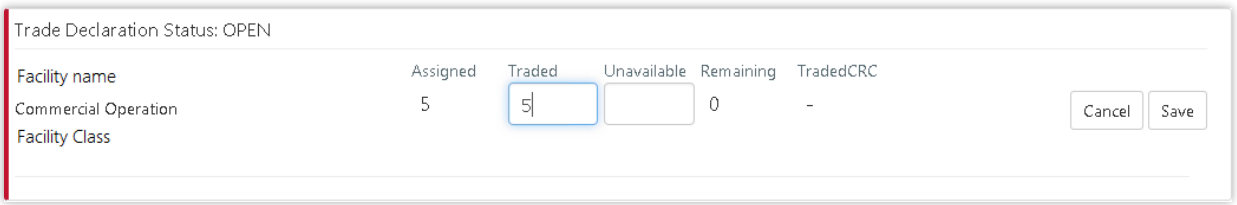
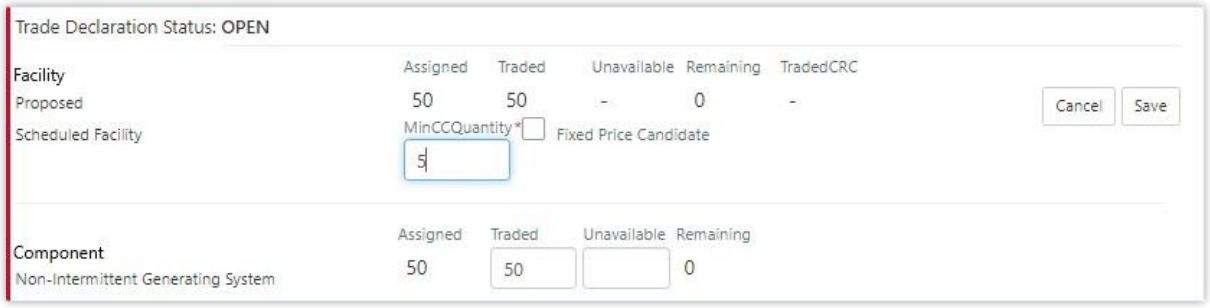


Figure 41 Edit a trade declaration for a Non-Scheduled Facility or Demand Side Programme



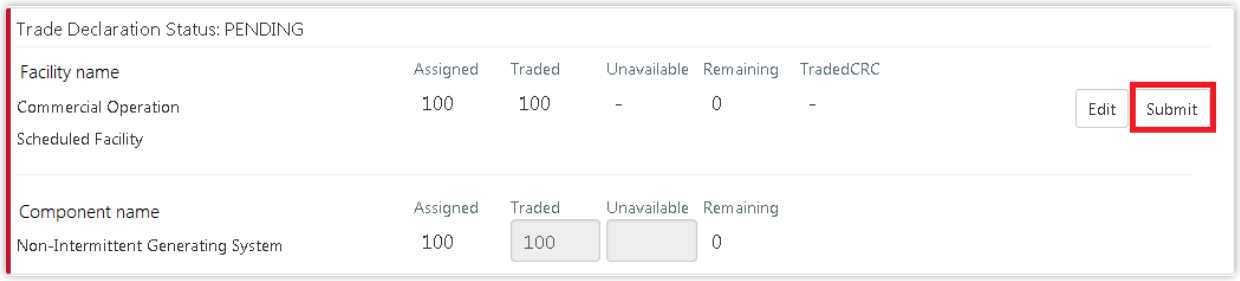
The Fixed Price Candidate checkbox allows a Market Participant with an eligible Facility or component to choose the Fixed Reserve Capacity Price. If the Facility or upgrade is in Proposed Status, the Minimum Capacity Credits Quantity must be provided (see Figure 42).

Figure 42 Edit a trade declaration for a Proposed Facility



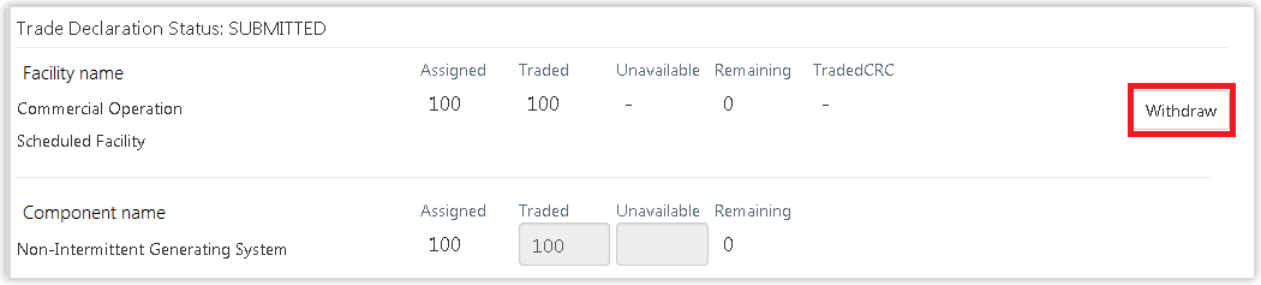
Trade declarations must be submitted by clicking on the 'Submit' button after saving (see Figure 43). To successfully submit a trade declaration, the 'Remaining' calculated field must display zero. A confirmation message will appear, and the Trade Declaration Status will update to Submitted (see Table 5) for a description of each possible status).

Figure 43 Submit a trade declaration



A submitted trade declaration may be withdrawn while the window is open by clicking 'Withdraw' (see Figure 44).

Figure 44 Withdraw a trade declaration



Once AEMO has run the trade methodology in accordance with Appendix 3 of the WEM Rules, the Traded CRC, which confirms the amount of CRC that can be traded for each Facility, will be available for each Facility (see Figure 45).

Figure 45 Traded CRC

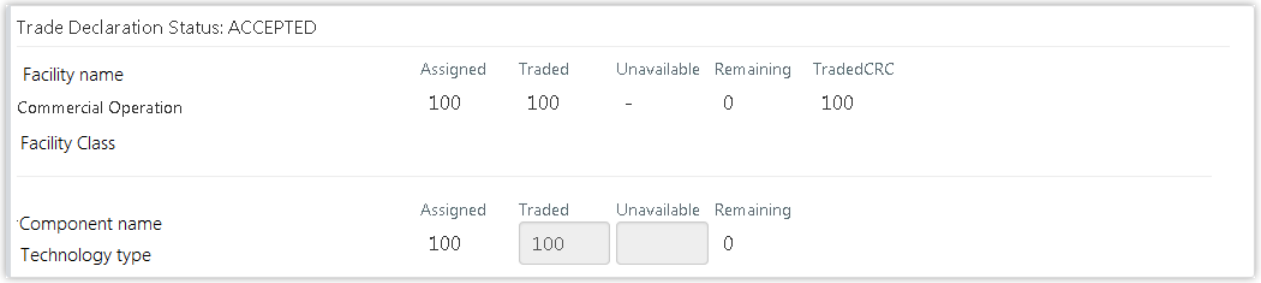


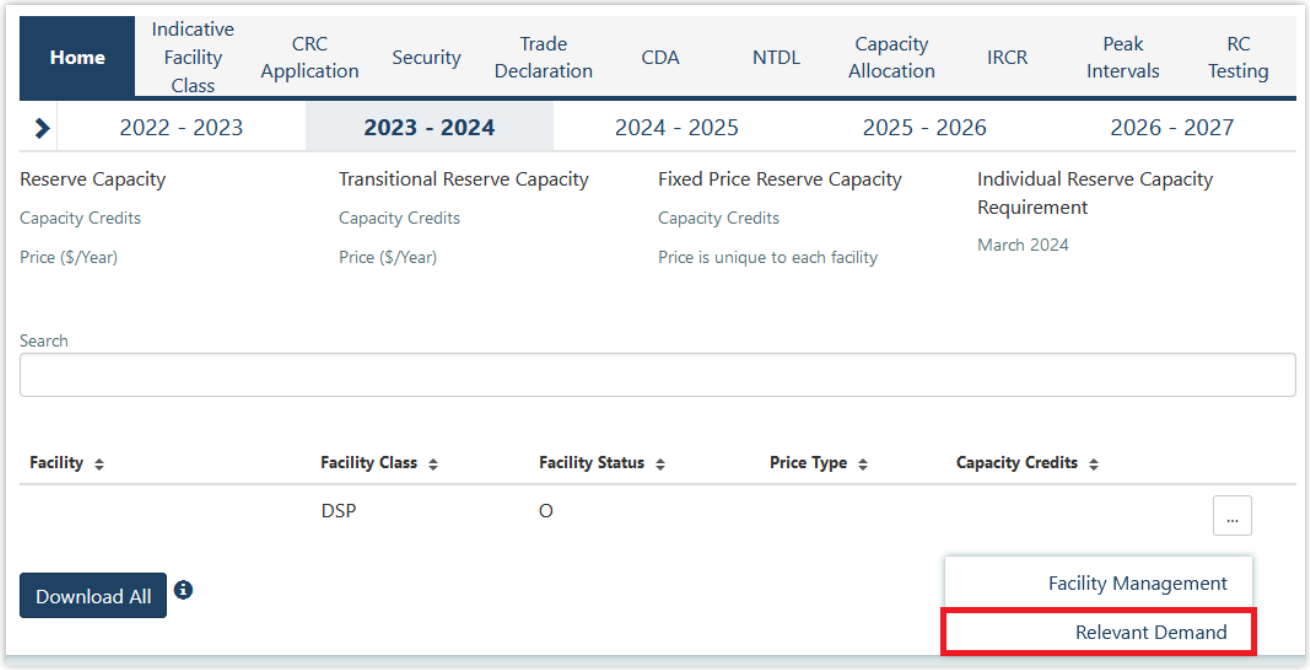
Table 5 Trade declaration status description

Status	Description
OPEN	The user can submit a trade declaration for Facilities with CRC if the relevant trade window is open.
PENDING	The trade has been edited and saved but is yet to be submitted.
SUBMITTED	The trade has been submitted to AEMO for review.
WITHDRAWN	The trade was submitted then withdrawn by the user prior to the closure of the trade declaration window.
LAPSED	The trade was not submitted prior to the closure of the trade declaration window.
ACCEPTED	AEMO has accepted the trade.
REJECTED	AEMO has rejected the trade.

4.8 Relevant Demand

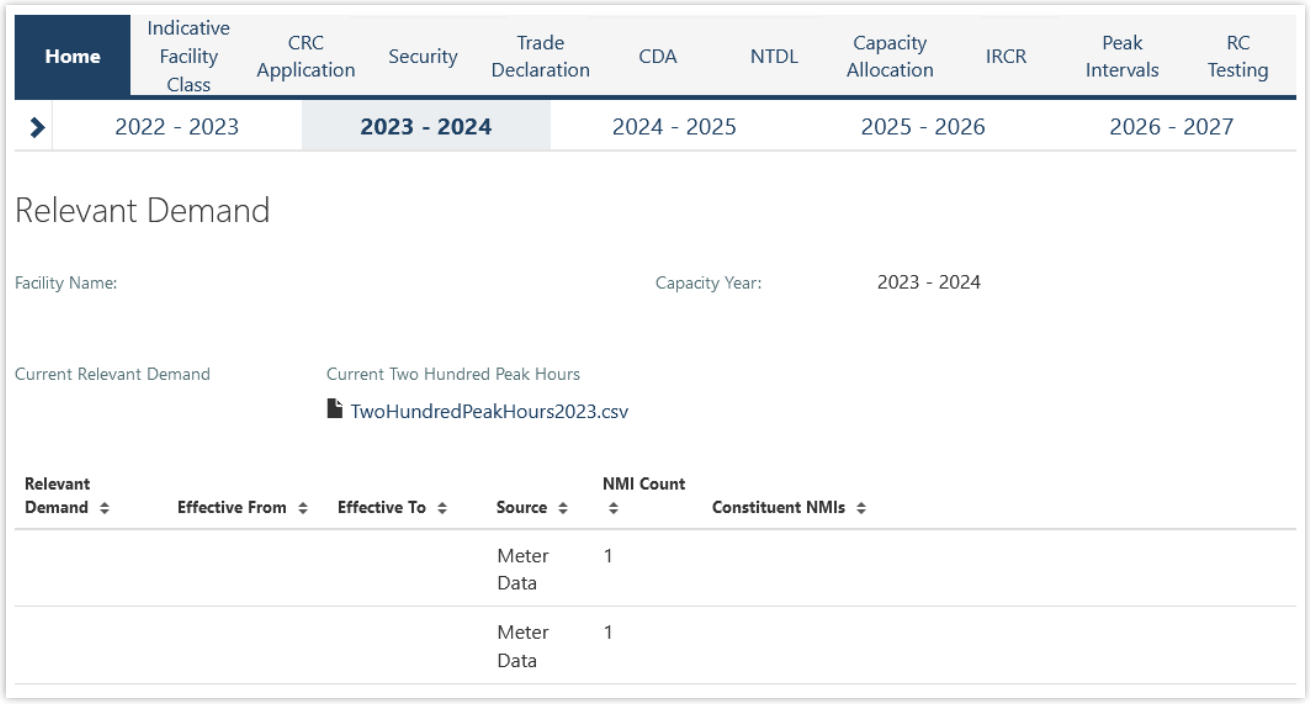
To access the Relevant Demand dashboard, select **RCM portal > Home** for the relevant Capacity Year. Select the ellipsis ("…") on the right of the DSP details and select Relevant Demand (see Figure 46).

Figure 46 Relevant Demand navigation



The Relevant Demand dashboard displays the current Relevant Demand and effective date, NMI count, source of the Relevant Demand calculation, previous Relevant Demand calculations and their effective dates, and downloadable supporting documentation (see Figure 47).

Figure 47 Relevant Demand display



4.9 Consumption Deviation Applications

To submit a CDA:

1. Navigate to RCM Portal à CDA and click New Application (see Figure 48).
2. Select the NMI that the CDA relates to from the drop-down menu (see Figure 49).
3. Download the maintenance interval template CSV file by clicking Download Template and populate for all intervals to be considered in the CDA (see Figure 49).
4. Upload the maintenance interval CSV file. Ensure the formatting of the interval column is in dd/mm/yyyy mm:hh time format or the upload will fail.
5. Upload evidence file(s) (see Figure 49) in accordance with the WEM Procedure: Consumption Deviation Applications. *Upload evidence file(s) (see Figure 49) in accordance with the WEM Procedure: Consumption Deviation Applications.*
6. By clicking the Save button, the CDA can be stored at any time to work on at a later date. After all relevant documentation has been uploaded, click Submit.

Figure 48 Create a new CDA

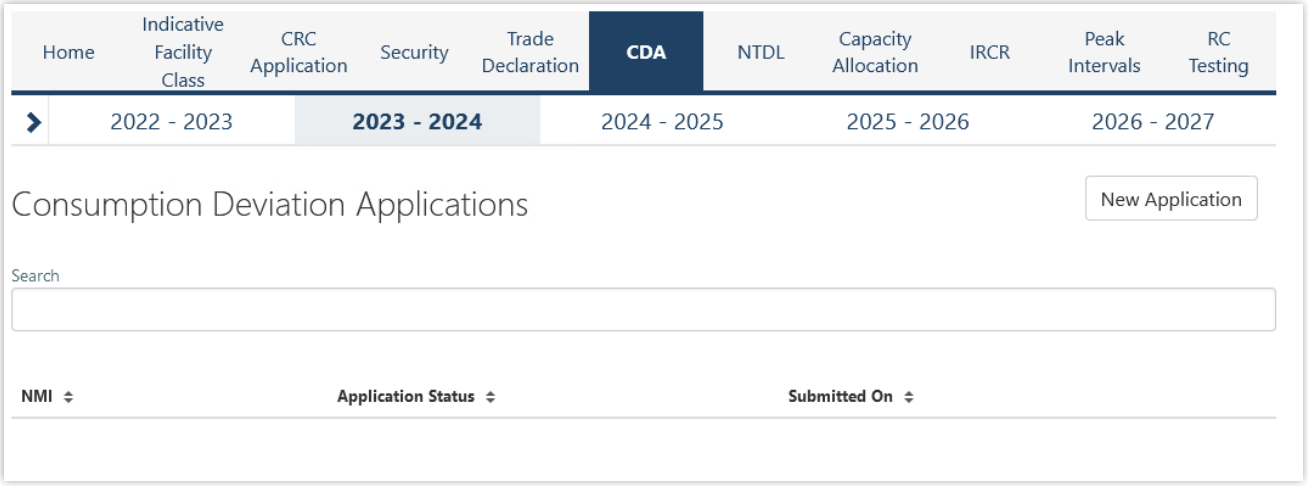
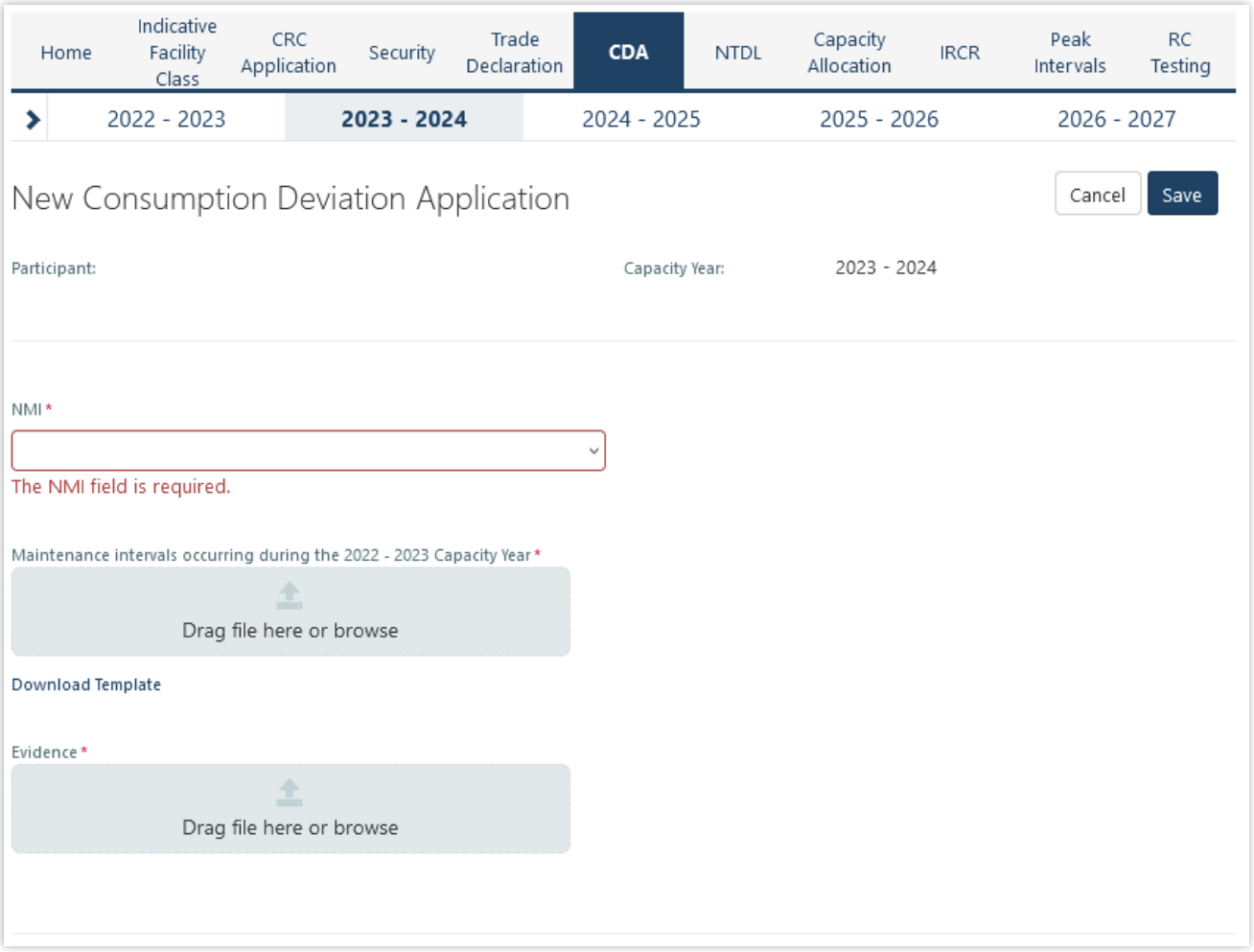
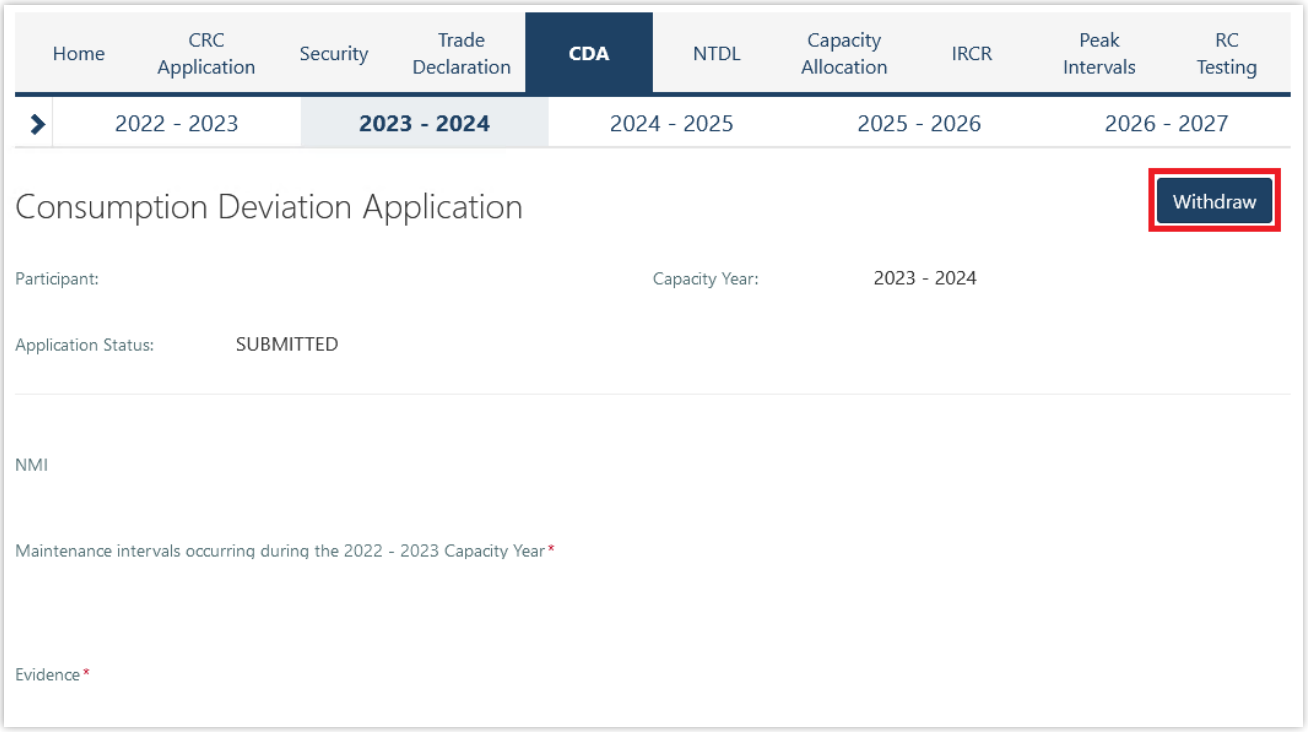


Figure 49 Edit and save a CDA



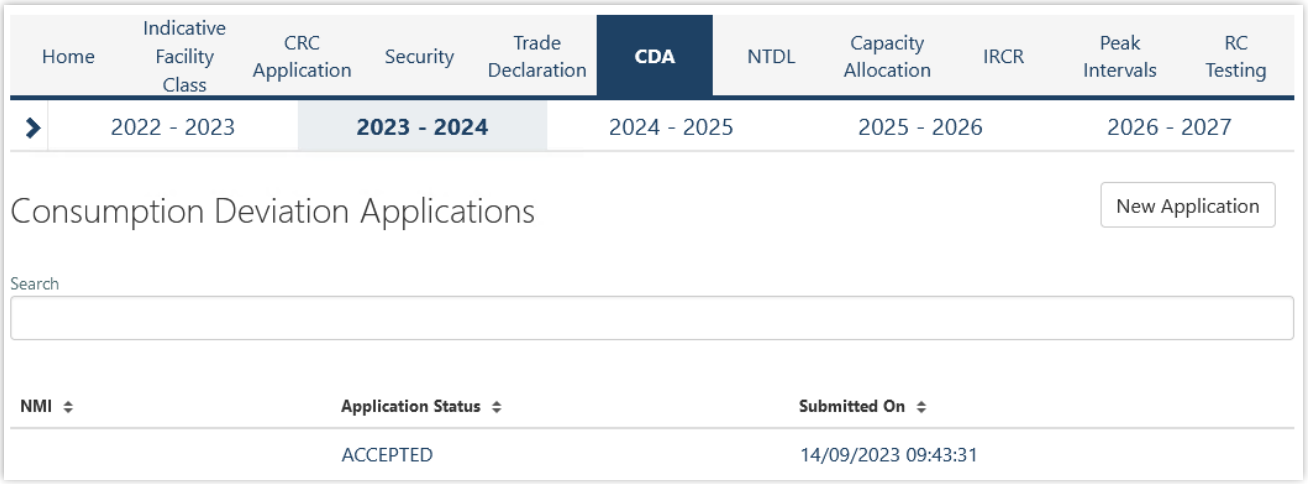
Once the application has been submitted, it can be withdrawn by clicking the Withdraw button (see Figure 50). A withdrawn application can be edited and re-submitted prior to the close of the application window. Submitted applications will be reviewed by AEMO and additional information will be requested where necessary.

Figure 50 Withdraw button for a submitted CDA



The Application Status of a submitted CDA can be viewed on the CDA dashboard under the relevant Capacity Year (see Figure 51). If AEMO requests more information for a CDA submission, the Application Status will change to Information Requested. By clicking the application, additional information can be uploaded and submitted.

Figure 51 CDA status display



For assistance with CDAs, please contact WA Capacity Market Investment at wa.capacity@aemo.com.au.

4.10 NTDL Application and Consumption Deviation Application

This section should be read in conjunction with the WEM Procedure: Individual Reserve Capacity Requirements and the WEM Procedure: Consumption Deviation Applications.

Loads nominated as Non-Temperature Dependent Loads **(NTDL)**, and Consumption Deviation Applications **(CDA)** for Loads nominated as Non-Temperature Dependent Loads, are submitted through the RCM portal.

The steps to submit an NTDL application and CDA are:

1. Select RCM portal > NTDL, ensure the correct Capacity Year is selected, and select New Application (see Figure 52).
2. Enter either:

– The 10-digit NMI or SCADA-only Facility Code associated with an interval meter.

3. Select the Trading Month that the NTDL application relates to from the drop-down menu.
4. To provide a list of all Trading Intervals during which the level of consumption of the interval meter was affected:

– Download the maintenance intervals template CSV file by clicking Download Template and populate for all Trading Intervals to be considered in the CDA[1].

– Upload the maintenance intervals CSV file to field - Intervals consuming below capacity. Ensure the formatting of the Trading Interval column is correct or the upload will fail.

5. To provide a written statement[2] from the operator of the interval meter, or to provide any other information the Market Participant wants AEMO to consider in its CDA assessment:

– Upload the written statement and any other file(s) to the Evidence field.

6. By clicking the Save button, the CDA can be stored and edited up until the closure of the NTDL application window. Once an application has been saved, the Application Status will change to Pending (see Figure 53). Continue to edit the application by clicking Edit.
7. To finalise and submit an application to AEMO, the user must click Submit. No further changes can be made to the application. Once an application has been submitted, the Application Status will change to Submitted (see Figure 53).

Note: all applications with an Application Status of Pending will automatically be lapsed by the system on closure of the NTDL application window and will not be assessed by AEMO.

Once the application has been submitted, it can be withdrawn prior to being assessed by clicking the Withdraw button (see Figure 54).

Results of NTDL assessments will be made available in the MPI once the processing has been completed by AEMO. An automated email will be sent to the Main Contact and the user that submitted the NTDL application and CDA.

If AEMO requests more information for a CDA, the Application Status will change to Information Requested. By clicking the application, the requested additional information can be provided and submitted.

For assistance with CDAs for NTDLs, please contact WA Prudentials and Settlements at wa.settlements@aemo.com.au.

[1] A Trading Month includes all Trading Intervals from 08:00 on the first day of the calendar month up to and including 07:30 on the first day of the following calendar month e.g., Trading Month October 2023 includes all Trading Intervals from 01/10/2023 08:00 to 01/11/2023 07:30 inclusive.

[2] If a list of Trading Intervals is provided, then a written statement must also be provided.

Figure 52 Create a new NTDL Application and CDA

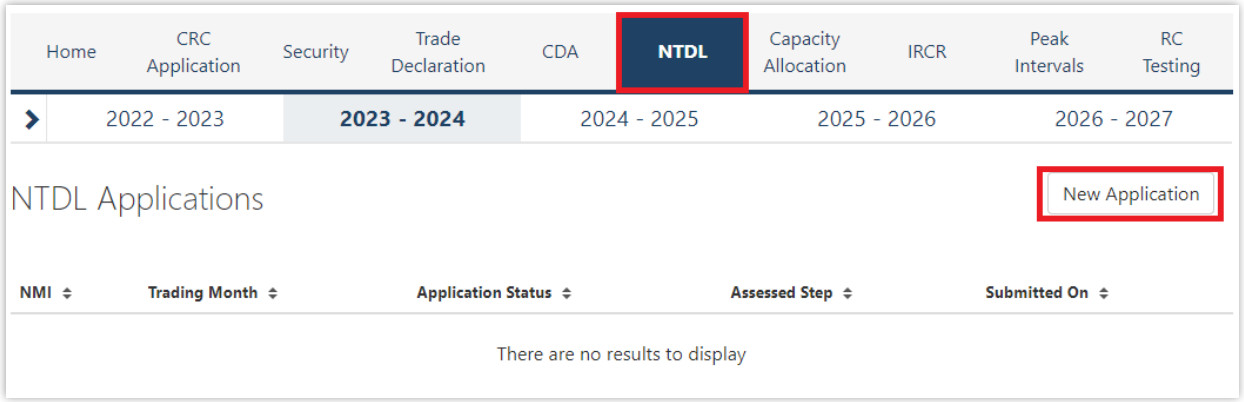
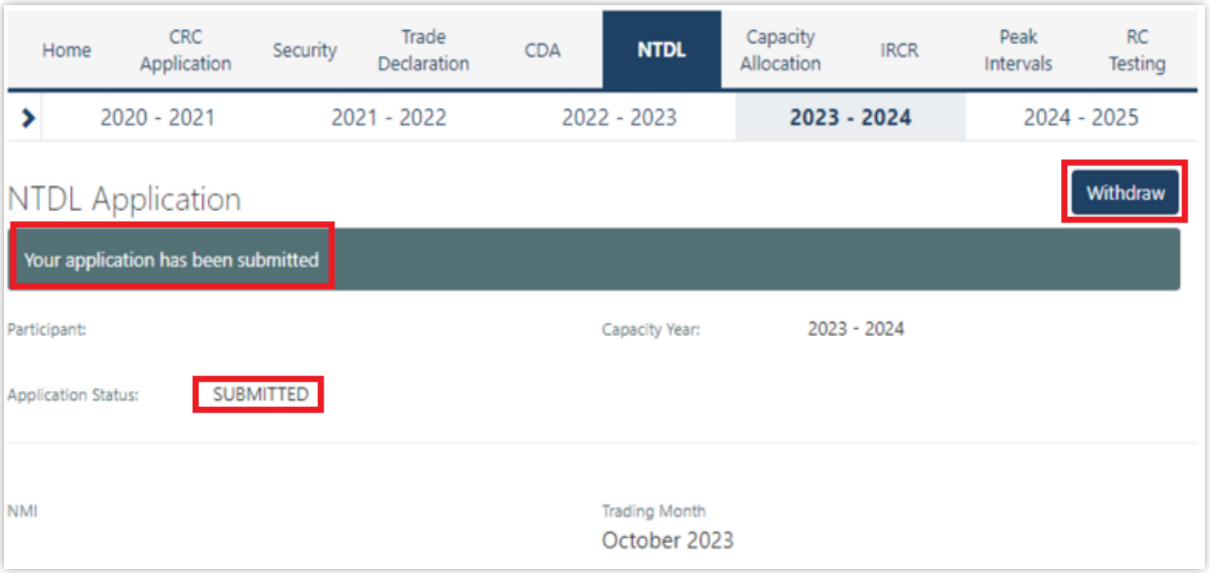


Figure 53 NTDL Application and CDA pending

Figure 54 NTDL Application and CDA submitted

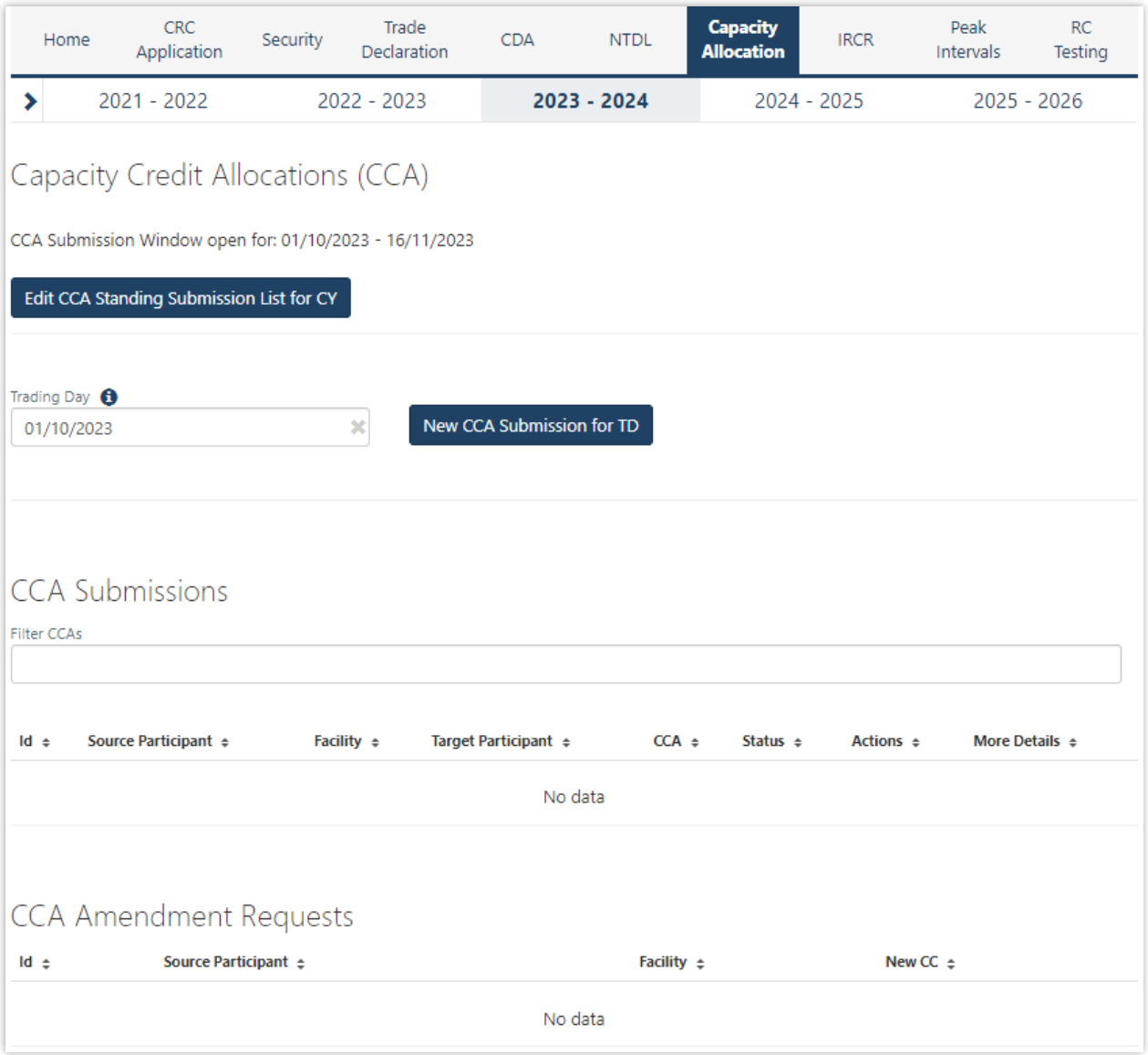


4.11 Capacity Credit Allocation

This section should be read in conjunction with the WEM: Capacity Credit Allocations. Capacity Credit Allocations (**CCA**) are managed in the RCM portal.

The Capacity Allocation tab displays a snapshot of CCA details (see Figure 55). Any emails relating to CCAs are sent to the Source Participant Main Contact User and the user who submitted the CCA. When a CCA is approved, rejected, or withdrawn by a Market Participant, or amended by AEMO, an email is also sent to the Target Participant Main Contact User.

Figure 55 Capacity Credit Allocation display



4.11.1 Capacity Credit Allocation for a Trading Day

The steps for a Market Participant to submit a CCA for a Trading Day are:

1. Navigate to the Capacity Allocation tab, ensure the correct Trading Day is selected (see Figure 56).
2. Click the New CCA Submission for TD button (see Figure 56).

2.1. **Note:** when a Trading Day is selected for which the CCA Submission Window is not open, the New CCA Submission for TD button will be greyed out.

3. This button will open a New CCA Submissions window as a pop-up (see Figure 57). Existing CCAs will not be displayed as this is only to generate new CCAs.
4. The Facility drop-down menu lists all Facilities in alphabetical order registered to the Market Participant. Select the Facility the CCA relates to from the drop-down menu.

5. Select the Market Participant the CCA relates to from the Target Participant drop-down menu which lists all Target Participants in alphabetical order.
6. Enter the Allocation amount.
7. Click the Submit button. Please note, an error will be displayed (see Figure 58) and the CCA will not be submitted if any of the following validations are not met:

7.1. All fields are mandatory and must be non-null;

7.2. The CCA field must be greater than 0; and

7.3. The CCA field must not be more than 3 decimal places.

8. Upon submission, the CCA will be moved to status Submitted while it is assessed by AEMO as follows:

8.1. If the CCA Submission does not result in an over allocation of Capacity Credits for the relevant Facility, it will be updated to status Approved.

8.2. If the CCA Submission does result in an over allocation of Capacity Credits for the relevant Facility, it will be updated to status Rejected.

9. If the CCA is approved, an email notification will be sent to the Source Participant and the respective Target Participant informing them that CCA has been approved by AEMO.
10. If the CCA is rejected, an email notification will be sent to the Source Participant informing them that CCA has been rejected by AEMO.
11. Once the application has been submitted, the CCA will be displayed below the CCA Submissions table (see Figure 59). The CCA Submissions table includes an option to filter by each field and view More Details about the CCA Submission by selecting the ">" icon.

Note: if the Cancel button is selected, the new CCA Submission will not be created.

Figure 56 Capacity Credit Allocation for a Trading Day

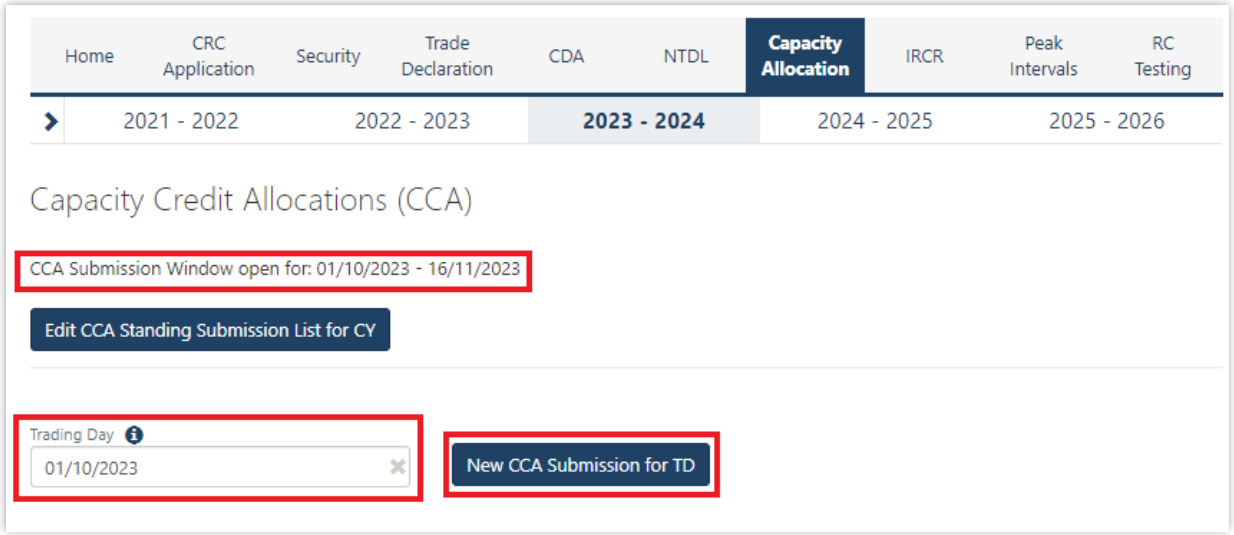


Figure 57 Capacity Credit Allocation for a Trading Day Window

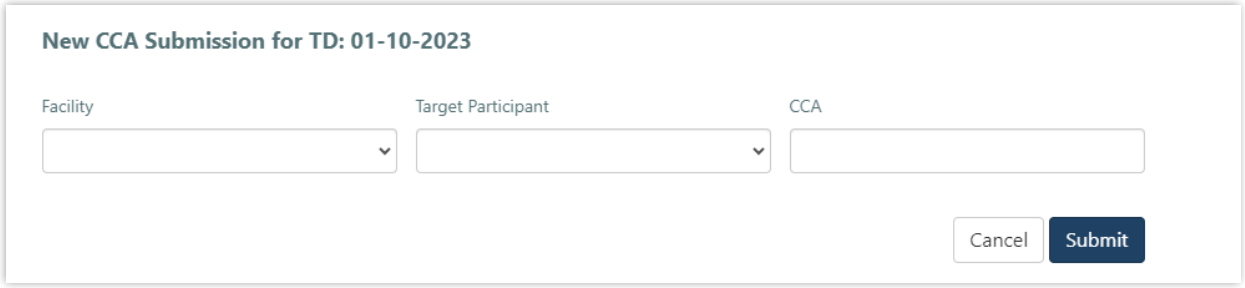


Figure 58 Capacity Credit Allocation Submission Error

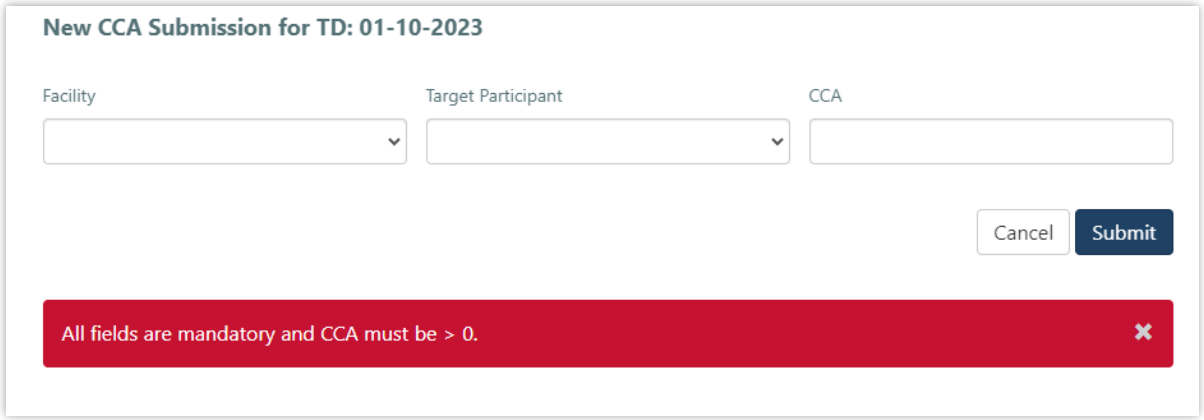
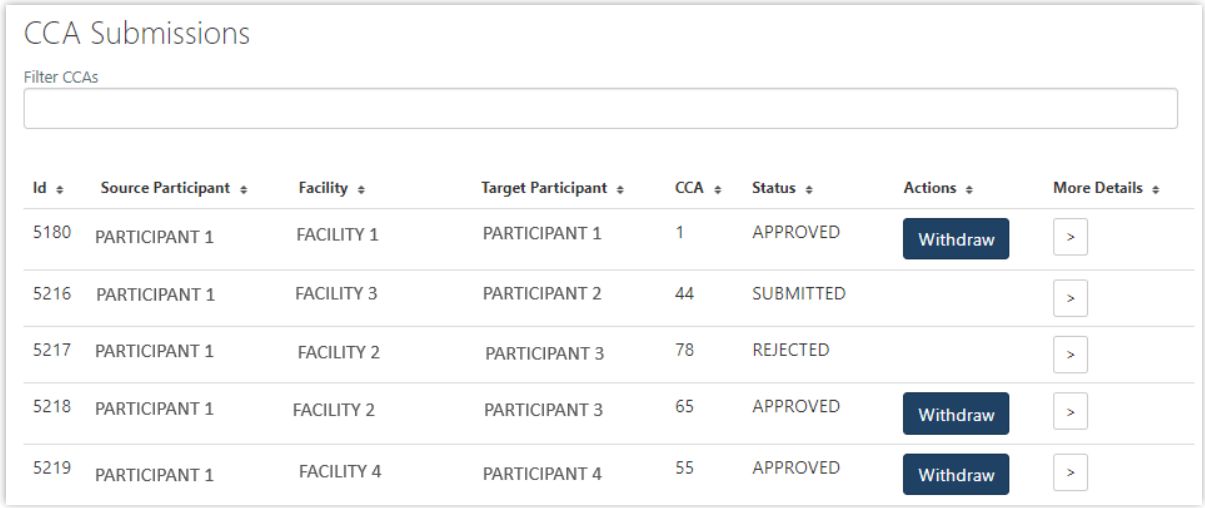


Figure 59 Capacity Credit Allocation Submissions Table



4.11.2 Capacity Credit Allocation Standing Submission

The steps for a Market Participant to submit a CCA Standing Submission for the Capacity Year are:

1. Navigate to the Capacity Allocation tab.
2. Click the Edit CCA Standing Submission List for CY button (see Figure 60).

3. This button will open a CCA Standing Submissions List window for the Capacity Year as a pop-up (see Figure 61). The list will be empty if there are no saved CCA Standing Submissions for the selected Capacity Year. If there are previously saved CCA Standing Submissions, then one row will be displayed for each CCA Submission and all fields for these submissions can be edited.
4. To add a CCA Standing Submission select the "+" icon. For each CCA Standing Submission, select the Facility the CCA relates to from the Facility drop-down menu, the Market Participant the CCA relates to from the Target Participant drop-down menu and the enter the Allocation amount in the Capacity Credits field.
5. When making a CCA Standing Submission:

5.1. Each CCA Standing Submission can be removed using the "x" icon.

5.2. Each CCA Standing Submission is draggable to allow ordering.

5.3. The Clear All button will remove all submissions in the list.

6. Click the Cancel button to remove all changes made to the CCA Standing Submission list since the last save.
7. Click the Save button. The CCA Standing Submissions window has a single Save button which saves all capacity allocations in order (where the top submission is submitted first) to be converted to CCA Submissions when the CCA Window opens for each Trading Day. Please note, the Save button will be greyed out when any of the fields are empty.
8. When the list has been saved, a message will be shown (see Figure 62).
9. The CCA Standing Submission list will be converted to CCA Submissions in accordance with the WEM Procedure.
10. Once the CCA Standing Submissions are converted to CCA Submissions for a Trading Day, they will appear in the CCA Submissions table for the Trading Day.

Note: when the CCA Standing Submission list is amended, it will not update CCA Submissions for any Trading Days for which the CCA Window is already open.

Figure 60 Edit Capacity Credit Allocation Submission List for CY button

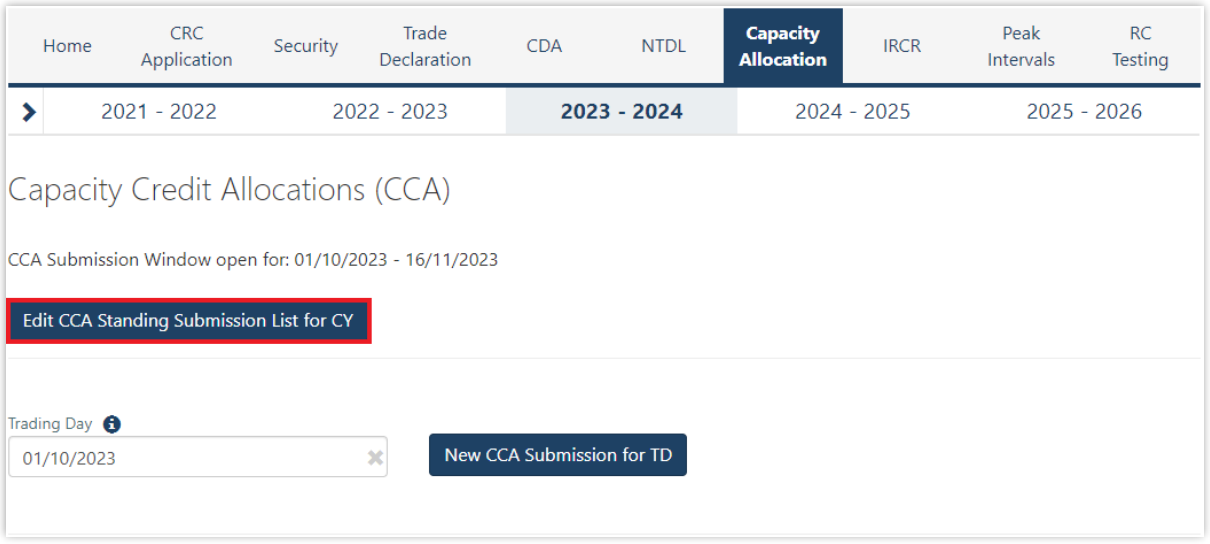


Figure 61 Market Participant Capacity Credit Allocation Submission pop out window

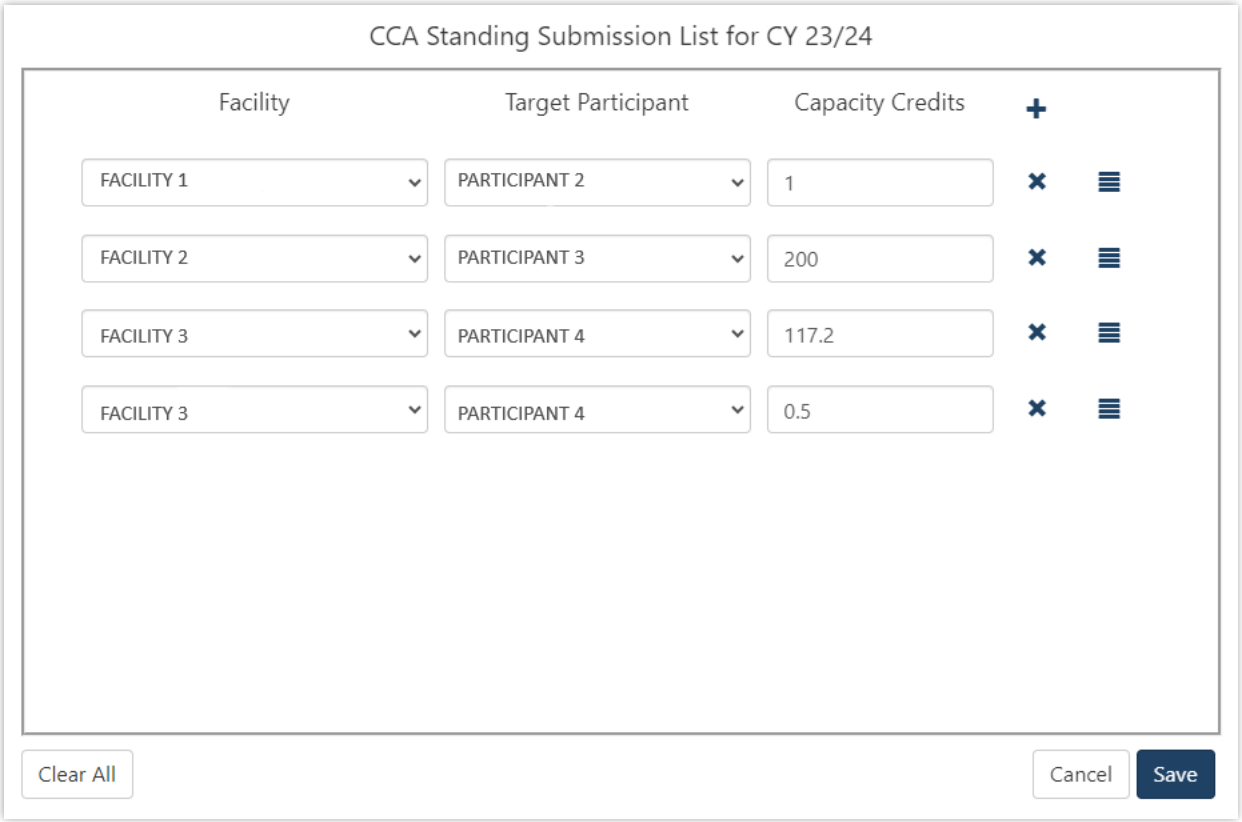
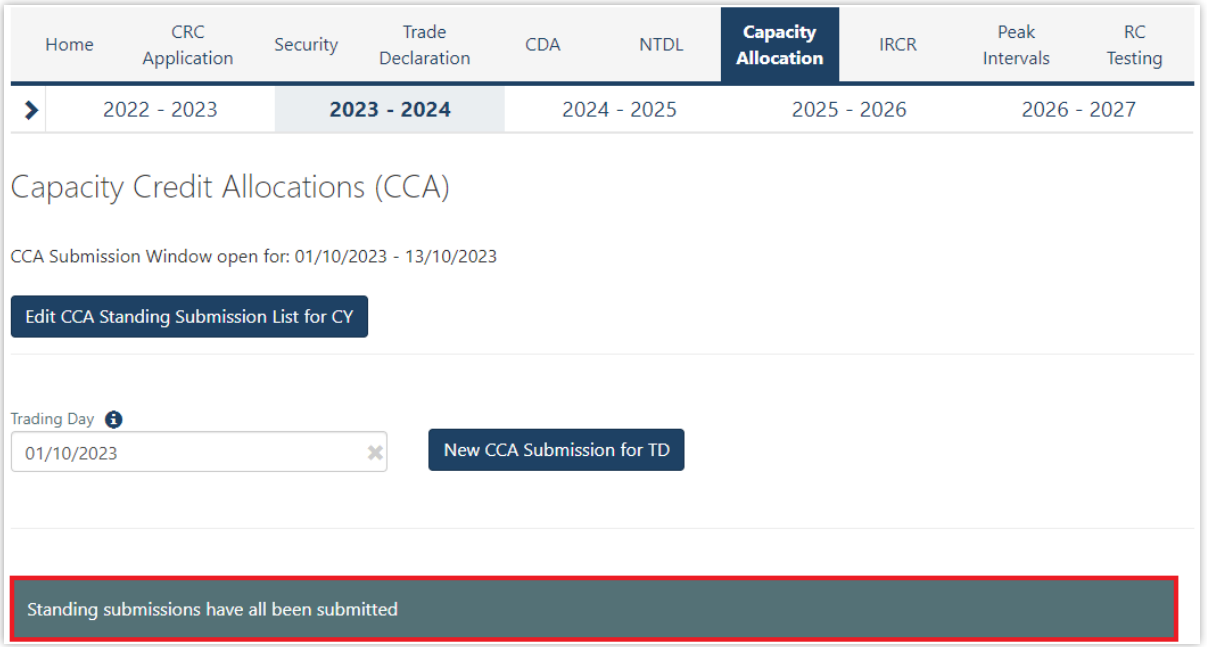


Figure 62 Standing Capacity Credit Allocation submitted



4.11.3 Market Participant Withdraws Capacity Credit Allocation

The steps for a Market Participant to withdraw a CCA are:

1. Navigate to the Capacity Allocation tab, ensure the correct Trading Day is selected, and scroll down to the CCA Submissions table.
2. Find the CCA that you would like to withdraw and click the Withdraw button (see Figure 63).
3. Once the CCA withdrawal is successful, the CCA Summary will show the CCA with a status of Withdrawn (see Figure 64).
4. An email notification will be sent to the Source Participant and the Target Participant informing them that a CCA has been withdrawn.

Figure 63 Withdraw Capacity Credit Allocation

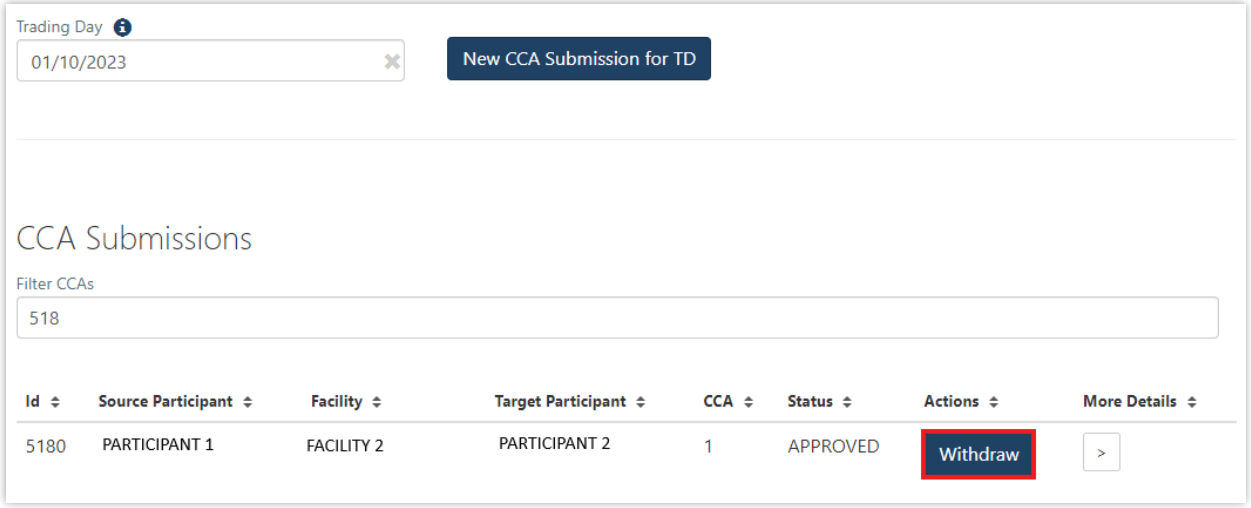
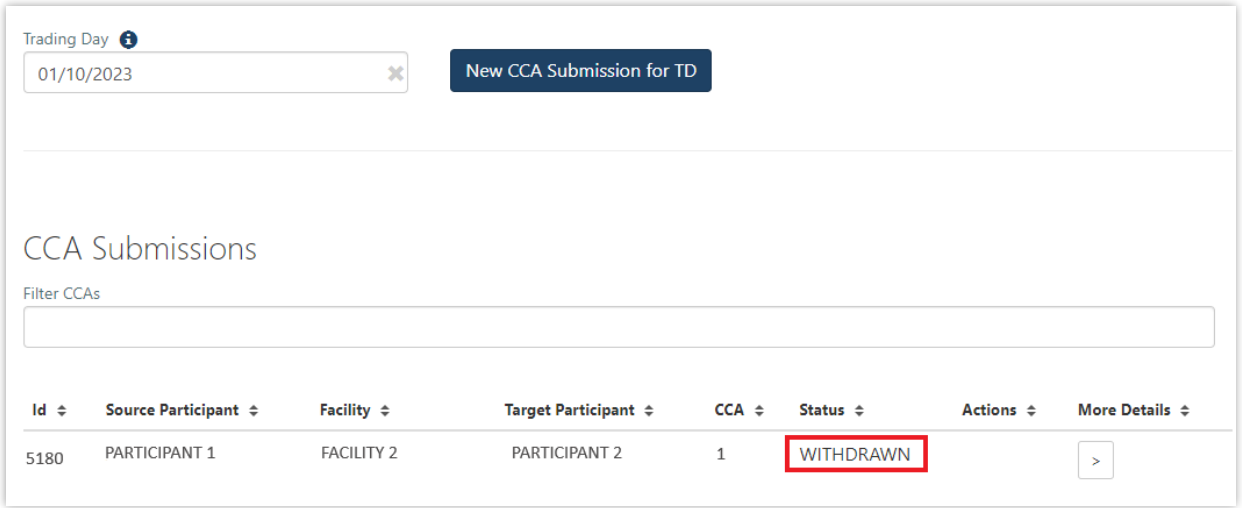


Figure 64 Successful withdrawal of Capacity Credit Allocation



4.11.4 Market Participant can view Capacity Credit Allocations

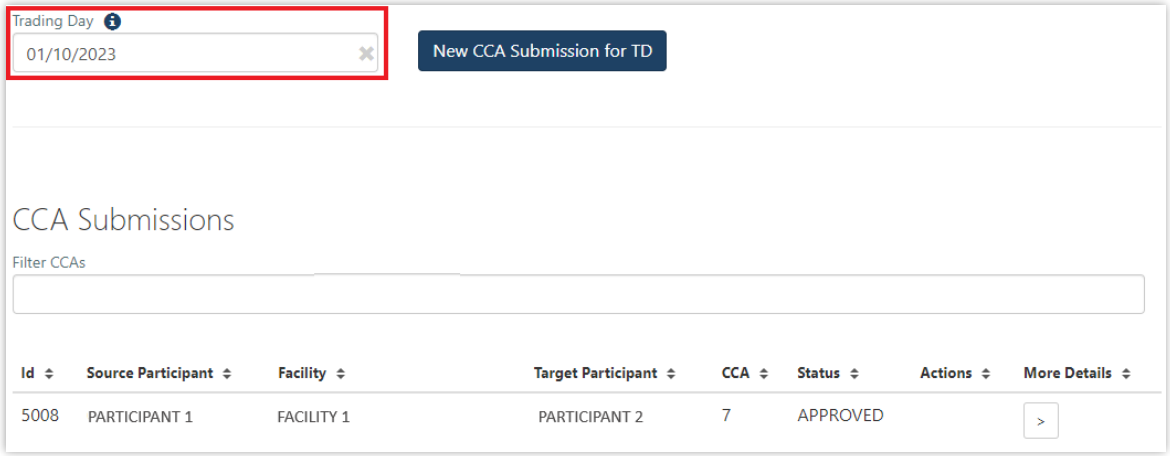
The steps for a Market Participant to view made or received CCAs are:

1. Navigate to the Capacity Allocation tab and ensure the correct Trading Day is selected (see Figure 65).

2. View and filter CCA Submissions in the CCA Submissions table. Both the Source Participant and Target Participant will be able to view a CCA Submission. Note that no actions are available for the Target Participant to against the CCA Submission.
3. For each CCA Submission, more details can be viewed by selected the ">" icon.

Note: CCAs in status Rejected or Withdrawn will not be visible to the Target Participant.

Figure 65 View Capacity Credit Allocation Submissions



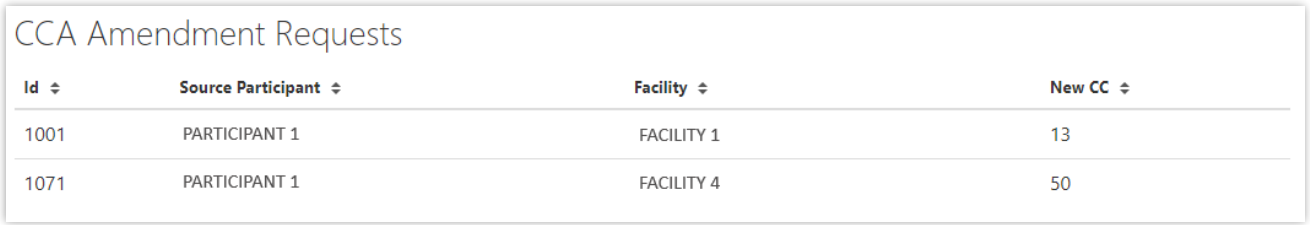
4.11.5 Market Participant can view Amendment Requests

An email notification will be sent to the CCA Source Participant if AEMO identifies that a CCA Submission for a Trading Day within the CCA window requires amendment to ensure CCAs are not greater than assigned capacity credits for each Facility.

The steps for a Market Participant to view the amendment requests are:

1. Navigate to the Capacity Allocation tab, ensure the correct Trading Day is selected, and scroll down to the CCA Amendment Requests table (see Figure 66).
2. The field New CC indicates how many capacity credits are assigned to the listed Facility for the Trading Day.
3. The Source Participant may amend the number of CCA Submissions made for the relevant Facility by withdrawing Approved CCAs and submitting new ones (see section 4.11.1 and 4.11.2).
4. Where AEMO automatically amends a CCA Submission in accordance with the WEM Procedure, Market Participants can view the amended Submissions in the CCA Submissions table.

Figure 66 Viewing Capacity Credit Allocation Amendment Requests



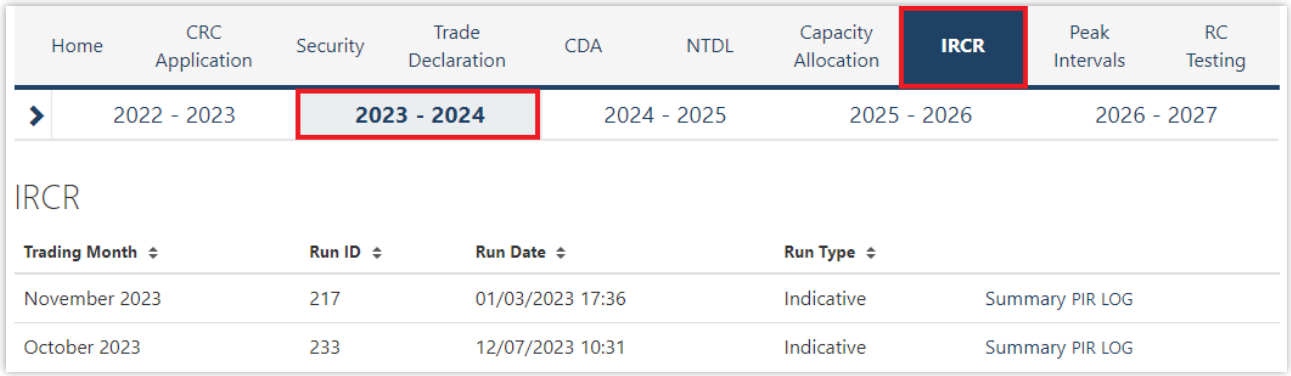
4.12 Individual Reserve Capacity Requirements

This section should be read in conjunction with the WEM Procedure: Individual Reserve Capacity Requirements.

To view IRCR results, select **RCM portal > IRCR** for the relevant Capacity Year.

This will display all IRCR runs by Trading Month with their respective date of publication and the Run ID representing the number of IRCR runs (see Figure 67).

Figure 67 IRCR dashboard



In order to view the IRCR details, click on Summary (see Figure 68).

The Summary displays a snapshot of IRCR results, including the ratios, the 12 Peak SWIS Trading Intervals (from the preceding Hot Season), the 4 Peak SWIS Trading Intervals of the relevant month, and the Run Type (see Figure 69).

Figure 68 IRCR Summary

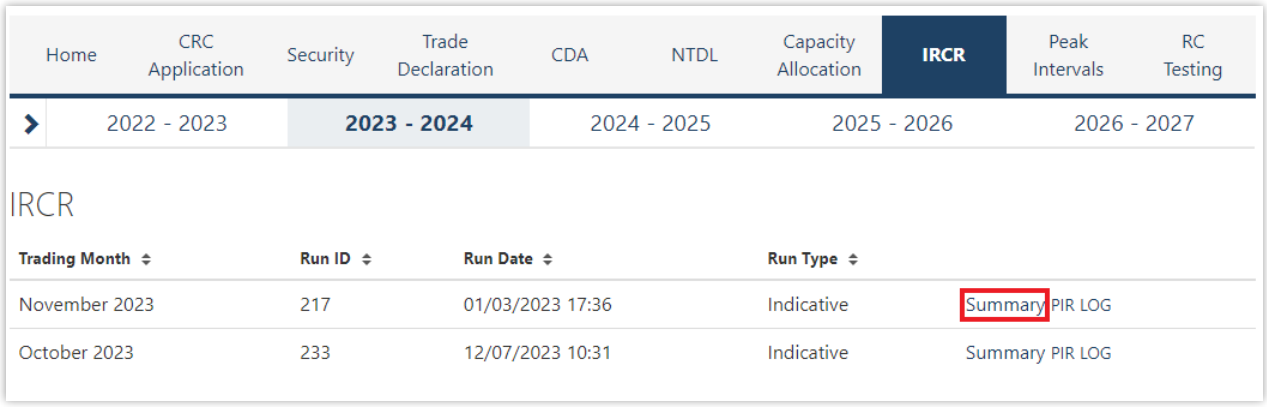
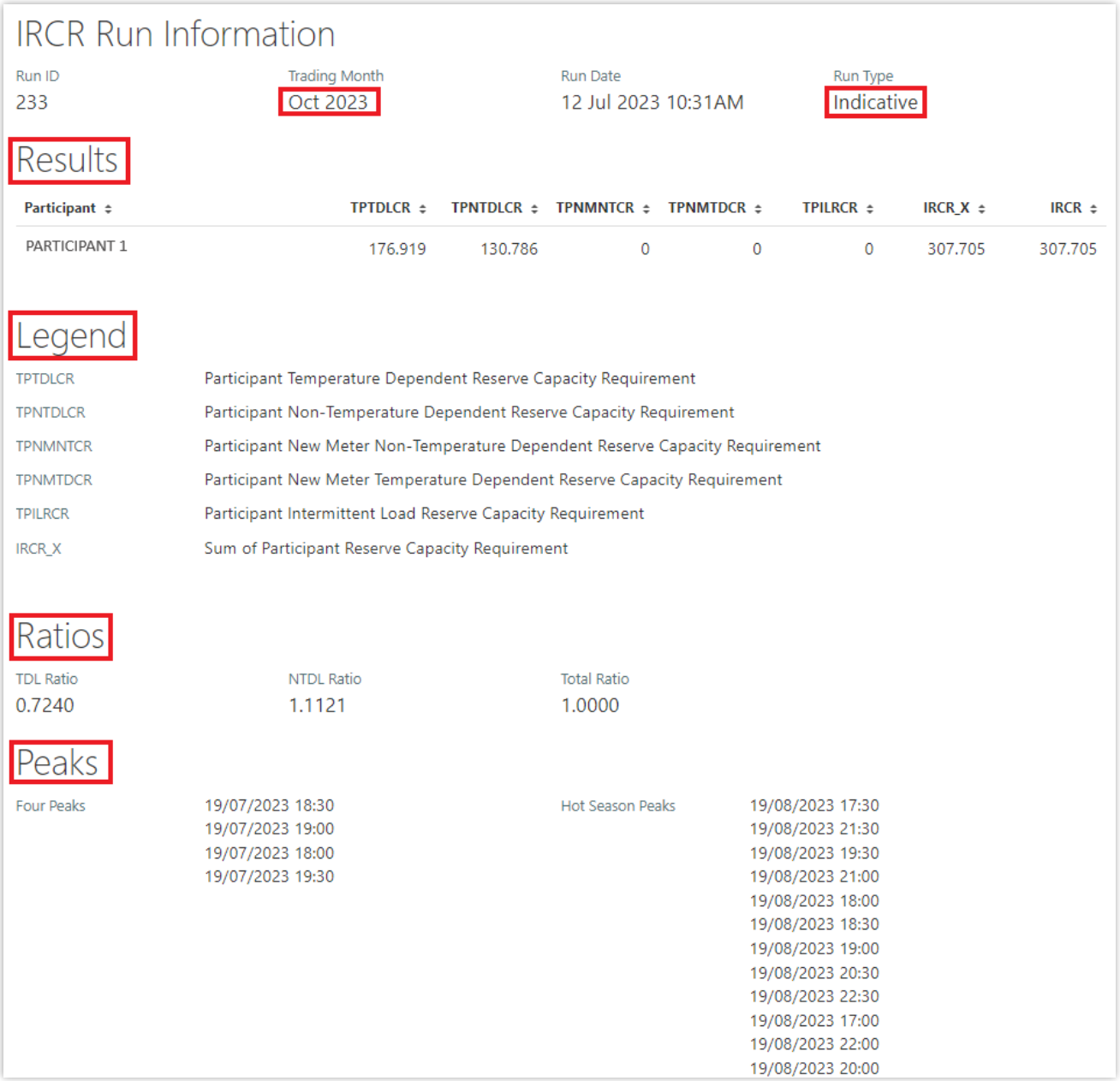


Figure 69 IRCR Details



IRCR Run Information

Run ID: 233 | Trading Month: Oct 2023 | Run Date: 12 Jul 2023 10:31AM | Run Type: Indicative

Results

Participant	TPTDLCR	TPNTDLCR	TPNMNTCR	TPNMTDCR	TPILRCR	IRCR_X	IRCR
PARTICIPANT 1	176.919	130.786	0	0	0	307.705	307.705

Legend

TPTDLCR	Participant Temperature Dependent Reserve Capacity Requirement
TPNTDLCR	Participant Non-Temperature Dependent Reserve Capacity Requirement
TPNMNTCR	Participant New Meter Non-Temperature Dependent Reserve Capacity Requirement
TPNMTDCR	Participant New Meter Temperature Dependent Reserve Capacity Requirement
TPILRCR	Participant Intermittent Load Reserve Capacity Requirement
IRCR_X	Sum of Participant Reserve Capacity Requirement

Ratios

TDL Ratio	NTDL Ratio	Total Ratio
0.7240	1.1121	1.0000

Peaks

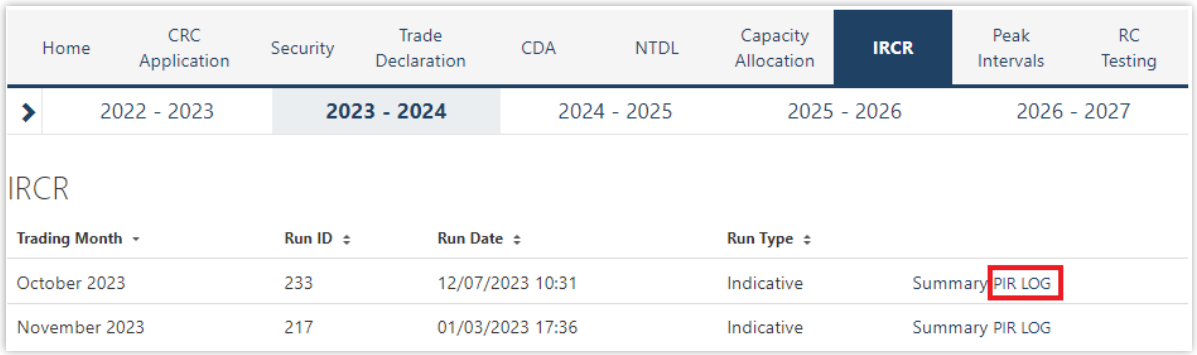
Four Peaks	Hot Season Peaks
19/07/2023 18:30	19/08/2023 17:30
19/07/2023 19:00	19/08/2023 21:30
19/07/2023 18:00	19/08/2023 19:30
19/07/2023 19:30	19/08/2023 21:00
	19/08/2023 18:00
	19/08/2023 18:30
	19/08/2023 19:00
	19/08/2023 20:30
	19/08/2023 22:30
	19/08/2023 17:00
	19/08/2023 22:00
	19/08/2023 20:00

The Run Type will be displayed as one of the following settlement runs; settlement run information is detailed in the Settlement Cycle Timeline:

- Indicative;
- Initial; or
- Adjustment 1, 2 or 3.

The IRCR Participant Information Record (PIR) and IRCR Logs for Trading Months June 2019 onwards can be downloaded from the PIR and LOG hyperlinks next to the relevant run (see Figure 70). IRCR PIR and IRCR Logs prior to June 2019 remain in the Settlements Portal.

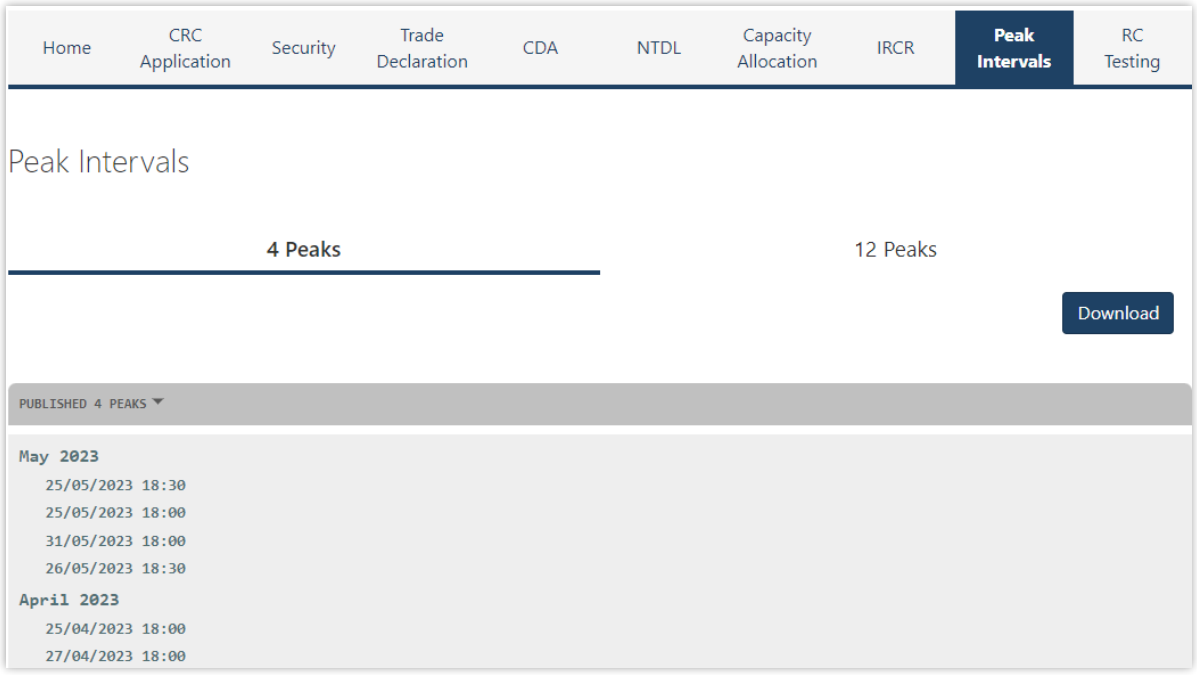
Figure 70 IRCR PIR and IRCR log



4.13 Peak SWIS Trading Intervals

To view or download the 4 and 12 Peak SWIS Trading Intervals, select **RCM portal > Peak Intervals** (see Figure 71).

Figure 71 Peak SWIS Trading Intervals



4.14 Reserve Capacity (RC) Testing

This section should be read in conjunction with the WEM Procedure: Reserve Capacity Testing.

To access the RC Testing page in the RCM portal, select **RCM Portal > RC Testing.** The RC testing page displays either the summer (1 October to 31 March) or winter (1 April to 30 September) testing periods for the selected Capacity Year (see Figure 72).

Figure 72 RC Testing page

To view the RC Testing results, select the relevant Capacity Year, and select either the summer or winter testing period. The user can view the interactive components of each Separately Certified Component or Facility owned by the Market Participant as an individual record where:

- Non-Intermittent Generating System (NIGS) and Electric Storage Resource (ESR) component results can be viewed during both summer and winter testing periods (see Figure 73). These records display the component name, fuel type (for NIGS only) and the technology type (NIGS or ESR).
- Demand Side Programme results can only be viewed during the summer testing period (see Figure 74).

Figure 73 Component records for a Scheduled or Semi-Scheduled Facility

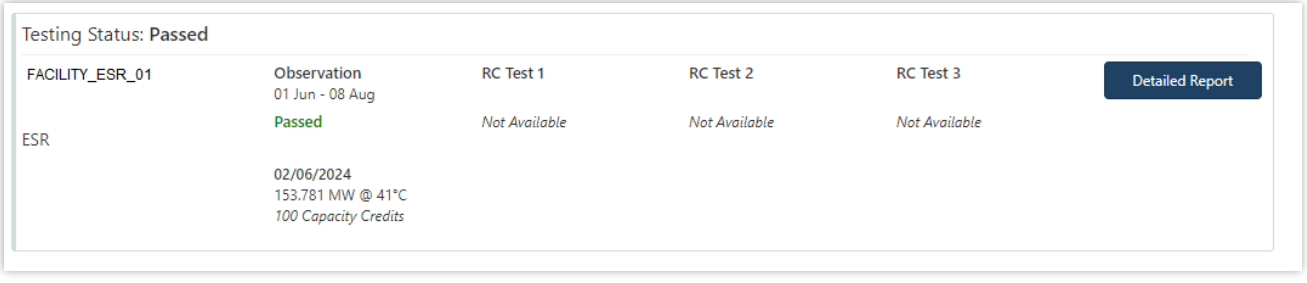
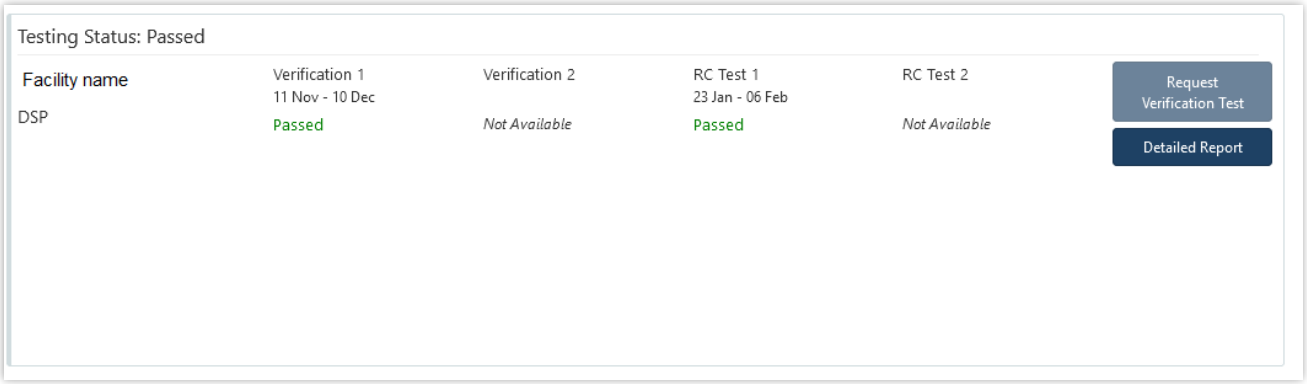


Figure 74 Records for a DSP



Each field the user can view for the relevant Facility type is described in Table 6.

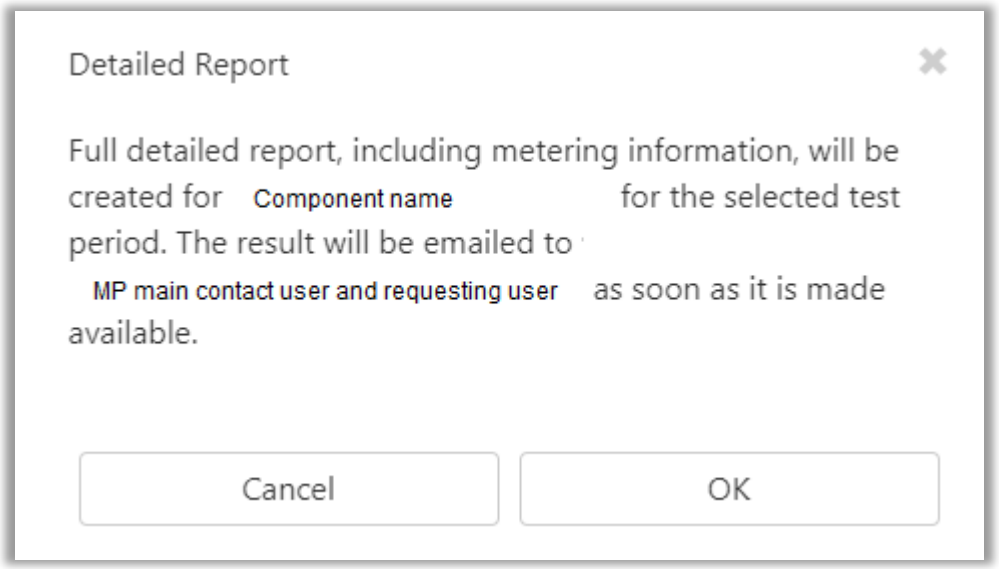
Table 6 RC Testing results fields description

Field Name	Facility/component type		
	NIGS	**ESR**	**DSP**
Facility/Component identification information	• Component short name. • Fuel type (from certification records for the relevant Capacity Year). • Component technology type.	• Component short name. • Component technology type.	• Facility short name. • Facility Class.
Testing status	Overall testing status of the most recent result whichcan be either: • Not Passed (for the observation test phase only). • Passed. • Failed.	Overall testing status of the most recent result whichcan be either: • Not Passed (for the observation test phase only). • Passed. • Failed.	Overall testing status of the most recent result whichcan be either: • Not Available (where a Verification Test has not been requested). • Passed. • Failed.
Observation	Displays the result for the two consecutive Trading Intervals with the highest output over the observation period and the following information: • Output at the ambient temperature. • Output adjusted to 41°C. • Capacity Credits.	Displays the highest temperature adjusted average result achieved across the Electric Storage Resource Obligation Intervals (ESROI) and the associated Trading Day.	NA
Verification (1 and 2)	NA	NA	Displays the outcome of the first and second (if required) Verification Tests, and, for the Trading Interval with the highest curtailment, the following information: • Actual meter reading. • Capacity Credits. • Relevant Demand. Where a Verification Test has not been scheduled, the status will be Not Available.
RC Test 1	Displays the outcome of the first Reserve CapacityTest (Passed or Failed) and, for each Trading Interval, the following information: • Output at the ambient temperature. • Output adjusted to 41°C.	Displays the outcome of the first Reserve Capacity Test (Passed or Failed) and the temperature adjusted average output over the ESROI on the day of the test.	Displays the outcome of the first Reserve CapacityTest (Passed or Failed) and, for each Trading Interval, the following information: • Actual meter reading. • Capacity Credits.

Field Name	Facility/component type		
	NIGS	**ESR**	**DSP**
	• Capacity Credits. Where test data has not been received, the status will be Not Passed.		• Relevant Demand Where test data has not been received, the status will be Failed and the results will show as Not Available.
RC Test 2	Displays the same information as for the first Reserve Capacity Test.	Displays the same information as for the first Reserve Capacity Test.	Displays the same information as for the firstReserve Capacity Test.
RC Test 3	Displays the same information as for the first Reserve Capacity Test, but the outcome is Third TestExecuted.	Displays the same information as for the first Reserve Capacity Test, but the outcome is Third TestExecuted.	NA

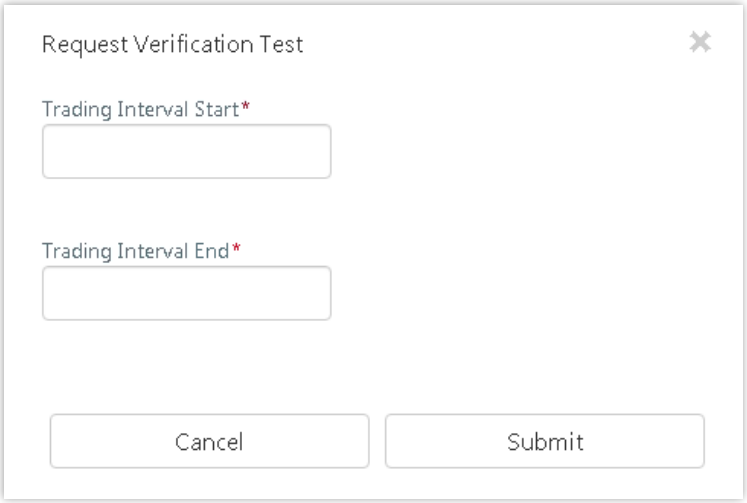
The user can view/download a detailed report for the summer or winter test period for each Facility or Component by clicking on the Detailed Report button. A pop-up window will show the email address the report will be sent to (see Figure 75).

Figure 75 Detailed Report pop-up window



For a DSP Facility, the Request Verification Test button is used to notify AEMO of the Trading Intervals during which a Market Participant intends to perform a Verification Test. A pop-up window is used to select the Trading Intervals (see Figure 76). This button is only available between 1 October and 30 November and will be greyed out at other times.

Figure 76 Verification Test pop-up window



Glossary

Term	Definition
AEMO	Australian Electricity Market Operator
IRCR	Individual Reserve Capacity Requirement
LFAS	Load Following Ancillary Services
MPA	Market Participant Administrator
MPI	Market Participant Interface
NDL	Non-Dispatchable Load
NMI	National Meter Identifier
Participant	In the context of this document, Participant is used in general terms to mean any registered RuleParticipant, unless otherwise specified
RCM	Reserve Capacity Mechanism
RSA SecurID Token	Third party security token for performing two-factor authentication for a user to a network source
SCADA	Supervisory Control and Data Acquisition system for measuring metering data.
STEM	Short Term Energy Market
SWIS	South West Interconnected System
WEM	Wholesale Electricity Market
WEM PaSS	Wholesale Electricity Market Prudential and Settlement Service
WEM Rules	Wholesale Electricity Market Rules
WEMS	Wholesale Electricity Market Systems