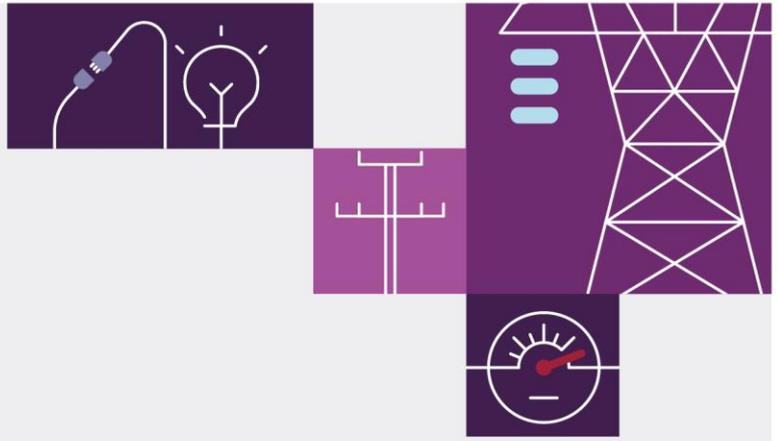


# Integrating Energy Storage Systems (IESS)

January 2024

Integrated resource provider transition plan





# Important notice

## Purpose

To support the IESS Rule Change, this document provides information to support relevant participants in their transition to the Integrated resource provider registration category.

This publication has been prepared by AEMO using information available at Wednesday 31 January 2024.

## Disclaimer

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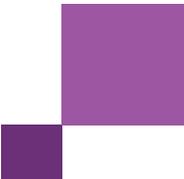
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## Version control

Version	Release date	Changes
0.1	01/12/2023	Draft document for industry feedback
1.0	31/01/2024	Final document



# Executive summary

The Australian Energy Market Operator (AEMO) and National Electricity Market (NEM) participants are currently implementing the Integrating Energy Storage Systems (IESS) and the implementation program has entered its development phase.

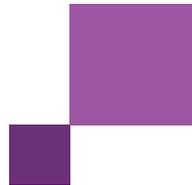
The National Electricity Rules (NER) changes for IESS have amended or introduced new regulatory obligations on certain NEM participants and AEMO. They require significant updates or changes to market procedures and market and participants' systems at various times. AEMO has a key coordination role, through collaboration with its industry working groups, to ready industry and itself for the various rule commencement and IT system "go-live" dates.

As described in the [IESS readiness approach](#), a key component of market readiness for IESS is transfer of some participants' registrations to the new Integrated Resource Provider (IRP) registration category.

The IRP transition plan defines the scope, approach, process, responsibilities, and high-level schedule of re-registering these participants as IRPs. The plan is consistent with and should be read in conjunction with the [IESS readiness approach](#).

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# 1 Introduction

This chapter provides background information on AEMO’s Integrating Energy Storage Systems (IESS) implementation program, and sets out the purpose, and approach to the development of this Integrated Resource Provider (IRP) transition plan.

## 1.1 AEMO’s IESS implementation program

On 02 Dec 2021 the Australian Energy Market Commission (AEMC) made a Final Determination on the Integrating Energy Storage Systems (IESS) rule.<sup>1</sup> The change seeks to better integrate storage and aggregate systems into the National Electricity Market (NEM).

On 04 Mar 2023, the AEMC made a further rule (the Implementing IESS rule), which amends the IESS rule.<sup>2</sup>

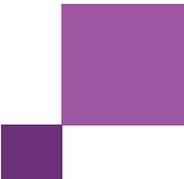
These IESS rules comprise four distinct high-level changes, described in Table 1.

**Table 1 Changes introduced by the IESS rule**

IMPLEMENTATION DATE	CHANGE	DESCRIPTION
Fri 31 Mar 2023	Small generation aggregators (SGA) providing FCAS	<b>Complete.</b> Aggregators of small generating and storage units can now provide ancillary services (if they choose to do so).
Wed 09 Aug 2023	Aggregated dispatch conformance (ADC)	<b>Complete.</b> <ul style="list-style-type: none"> <li>Aggregate Systems can choose to register for ADC</li> <li>ADC provides an Aggregate System with the flexibility to conform to its dispatch instructions by dispatching energy at the connection point from any combination of its units (with some restrictions), rather than individually on a unit-by-unit basis</li> <li>Includes minor changes for Battery Energy Storage Systems (BESS). AEMO will temporarily be using the ADC mechanism to monitor net dispatch conformance for a BESS across its scheduled generating unit/scheduled load pair, as a Target Aggregate.</li> </ul>
Sun 02 Jun 2024	IESS retail and settlement changes	Significant changes to the calculation method to be used for Non-Energy Cost Recovery (NECR): <ul style="list-style-type: none"> <li>Recovery calculations are to consider the gross (consumption separate from generation) energy amounts of all participants, rather than current approach using net energy (generation – consumption) of specific participant types</li> <li>Major settlements database structure changes are required to enable the new calculations, these changes will flow into the Data Model and affect: <ul style="list-style-type: none"> <li>Participant reconciliation and reporting activities</li> <li>AEMO data provision</li> <li>Embedded network management changes to ensure that the parent has the appropriate gross energy volumes available for settlement.</li> </ul> </li> </ul>
Sun 02 Jun 2024 (IRP) Mon 03 Jun 2024 (BDU)	Registration, bidding and dispatch changes	<ul style="list-style-type: none"> <li>Introduction of Integrated Resource Provider (IRP) participant type</li> <li>Bidirectional unit (BDU) bidding and dispatch, with impacts for BDU participants and bidding system vendors/developers.</li> </ul>

<sup>1</sup> Australian Energy Market Commission, National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021

<sup>2</sup> Australian Energy Market Commission, National Electricity Amendment (Implementing integrated energy storage systems) Rule 2023 No. 2



The IESS program covers the procedural, IT system and market readiness arrangements needed to implement the IESS rule including:

- [Procedures](#) – defines and implements the required changes to market procedures.
- [Systems](#) – designs, develops, tests, and implements changes to AEMO’s market systems.
- [Readiness](#) – coordinates, assists and prepares AEMO and participants for the transition to IESS.
- [Stakeholder engagement](#) – supports participants in their IESS implementation work.

AEMO’s IESS implementation program has entered the industry readiness phase of the project. This document is specific to the registration component of market readiness for the IESS June 2024 release.

## 1.2 Purpose of the IRP transition plan

This IRP transition plan is a key component of AEMO’s IESS readiness approach. The purpose of the plan is to set out the expected responsibilities, activities, dependencies and timeframes for transitioning affected participants to the IRP registration category.

**Battery Energy Storage Systems (BESS) participants should read this plan in conjunction with the Bidirectional Unit Transition and Cutover Plan. This is because BESS participants must transition to the IRP category before cutting over to single bidirectional unit (BDU) operations.**

## 1.3 Background documents

The following documents and web pages provide background to the IESS project:

- AEMC [IESS rule change](#)
- AEMC [Implementing IESS rule change](#)
- AEMO [IESS High Level Design and Implementation Strawperson](#)
- AEMO [IESS Participant Toolbox](#)
- AEMO [IT change and release management](#) (including links to EMMS and MSATS technical specifications)

## 1.4 Related documents

The IRP transition plan is one of several documents that support the [IESS readiness approach](#). Table 2 lists key related documents that may be read in conjunction with this document.

**Table 2 Relationship between the IRP transition plan and other IESS documents**

Related document	Description of relationship
<b>Participant impact assessment</b>	The <a href="#">IESS June 2024 Participant Impact Assessment</a> provides the high-level impacts of the IESS rule change and contains detail around the new IRP category.
<b>IESS readiness approach</b>	The <a href="#">IESS readiness approach</a> is the overarching plan to guide AEMO and NEM participants' IESS readiness activities and operational preparedness. The industry testing and market trials strategy provides further guidance on the market testing approach and schedule for IESS.
<b>IESS BDU transition and cutover plan</b>	Participants with Battery Energy Storage Systems (BESS) will have responsibilities under both the IRP Transition Plan and the BDU Transition and Cutover Plan. IESS BDU Transition and Cutover Plan outlines the expected responsibilities, activities, dependencies, and timeframes for AEMO and Participants to successfully transition all grid-scale batteries from 2 DUIDs to a single BDU DUID.
<b>IESS NMI classification code transition plan</b>	The NCC transition plan sets out the activities, dependencies, and timeframes for AEMO to transition the existing distribution-connected generators (and generation side of distribution-connected storage) to the DGENRATR registration category.
<b>Market trial strategy</b>	The IESS <a href="#">Industry Test and Market Trials Strategy</a> defines the approach, scope, process and responsibilities and high-level schedule of the industry testing and market trial phase for IESS. <b>BESS participants wishing to take part in the IESS Market Trial will need to provide AEMO with any required information by 08 Mar 2024.</b>
<b>Market trial plan</b>	The IESS industry testing and market trial plan sets out the approach to developing the plan and defines how and when the IESS industry testing and market trial will be executed.

## 1.5 Audience

This IRP Transition Plan is primarily intended for NEM participants who must or may transition to the Integrated Resource Provider (IRP) category under the IESS Rule, including:

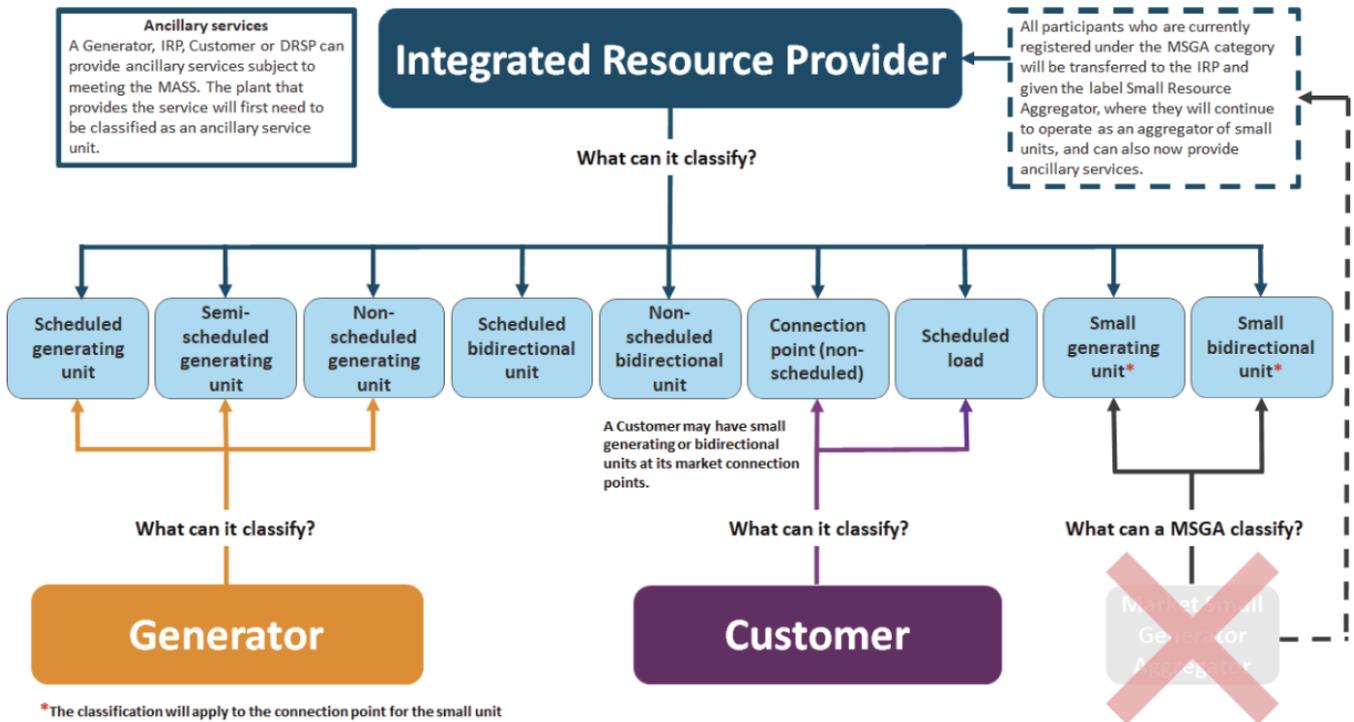
- Participants with BESS
- Small Generator Aggregators
- Participants with pumped hydro
- Non-customer load participants
- Non-transitioning generating systems.

## 2 Introduction to the IRP category

This chapter explains the rationale for the IRP registration category and which participants are affected by the IESS rule's implementation. It also considers AEMO's role in transferring participant registrations to the new IRP category.

The AEMC's final determination creates a new technology neutral participant category, the IRP. It accommodates a variety of participants with bi-directional energy flows that may generate and consume energy and provide ancillary services. This includes grid-scale storage, hybrid facilities and aggregators of small generation and storage units. Figure 1 shows the IRP classifications and services effective from IESS commencement.

**Figure 1 IESS classifications and services that can be provided by Market Participants**



Source: [AEMC IESS Final Determination p. iv](#)

Introducing the IRP registration category enables storage and hybrid facilities to register and participate in a single registration category rather than under two different categories (Generator and Customer).

The Small Generation Aggregator (SGA) role will become the Small Resource Aggregator (SRA) role under the IRP category. SRAs will be able to classify small generating units and small bidirectional units and provide ancillary services.

Table 3 shows the transitioning participant types with the dates by which each category is required to transition by under the IESS rules.

**Table 3 Transitioning participant type**

<b>Transitioning participant type</b>	<b>IESS rule</b>		<b>Timing</b>
<b>Small generation aggregators</b>	11.145.4	Small Generation Aggregators to become Small Resource Aggregators	Sun 02 Jun 2024
<b>New IRS participants</b>	11.145.3	Registration transition for New IRS Participants	Mon 03 Jun 2024
<b>Existing IRS and Non-customer load participants</b>	11.145.2	Transfer of registration for Existing IRS Participants and Existing Non-Customer Load Participants	On and from 03 Jun 2024 to 03 Dec 2024
<b>Non-transitioning generating systems</b>	11.145.2	Participants registered as a Generator or Customer in relation to a generating system that is not a transitioning generating system but is an IRS.	Optional, and on and from 03 Jun 2024 to 03 Dec 2024

The NER obligation is to transition participants to the IRP registration category in respect of the “transitioning generating system”. In addition to transitioning to the new IRP category, AEMO recognises that a participant may retain other NEM participant categories where these relate to that participant’s other (non-transitioning) assets.

## 3 IRP transition framework

This chapter sets out the objectives, principles and scope of the IRP transition.

### 3.1 Objective

This IRP transition plan:

- Provides detailed and coordinated guidance on introducing and embedding the IRP registration category under the IESS rule
- Supports AEMO's and participants' operational preparedness for the IESS system "go-lives" and rule commencements.

### 3.2 Principles

Transitioning affected participants to the new IRP category requires cooperation between participants and AEMO to be successful. The following key principles should guide the parties:

1. Participants and AEMO must continue to fulfil all regulatory and compliance obligations during transition periods, including meeting the mandated IESS rule dates
2. NEM operations should be uninterrupted during periods of transition
3. Transition risks should be minimised
4. Transition planning should introduce more certainty for participants' implementation planning
5. Participants and AEMO are each responsible for their own transition and go-live planning
6. Participants will use this IRP transition plan as the basis of their implementation plans, and will develop individual plans that have regard to the key IRP transition activities and dates
7. Participants and AEMO are to communicate any issues with meeting their IRP transition responsibilities as soon as possible.

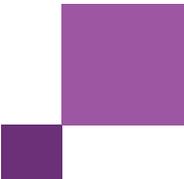
### 3.3 Scope

#### 3.3.1 In scope

The IRP transition plan applies to the industry transition to the IRP registration category under the IESS rule. This includes the process and activities required for affected participants to successfully transition to the IRP registration category.

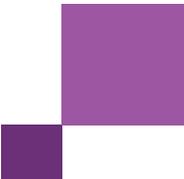
#### 3.3.2 Out of scope

- IESS changes other than the industry transition to the IRP registration category
- Registration changes that are unrelated to the introduction of the IRP registration category
- Generator Performance Standards will not be revisited for transitioning participants

- 
- Payment of registration fees is not applicable for participants who are transitioning into the IRP category under NER 11.145.2, 11.145.3 and 11.145.4 and is therefore not considered in the IRP transition activities.

### **3.3.3 Where scope is uncertain**

The IRP transition is not anticipated to be a complex process. However, should uncertainty in its scope arise, AEMO and participants will assess the issues and recommend next steps for resolution via the Implementation Forum.



## 4 IRP transition plan

In keeping with the IESS readiness approach, the IRP transition plan provides coordinated guidance for AEMO and participants on the transfer of registration to the new IRP registration category for affected participants. Importantly, the plan is the basis for participants to complete their own transition plans.

Under the IESS rule, there are three categories of participants who must transition to the IRP registration category:

1. Small generation aggregators (SGA)
2. New IRS participants
3. Existing IRS and non-customer load participants.<sup>3</sup>

Additionally, *non-transitioning generating systems* can choose to transition to the IRP registration category.

As each of the transitioning categories require individual treatment, there are separate transition approaches and plans outlined in the following sections for each category.

### 4.1 Small Generator Aggregator transition to IRP registration category

This section describes the approach and sets out the relevant activities for transitioning a Small Generator Aggregator to the IRP registration category.

#### 4.1.1 IRP transition approach for SGAs

AEMO estimates that there are approximately 40 SGAs who will need to transition to the IRP registration category.

The process to transition from SGA to IRP will largely be completed by AEMO. Participants will be required to:

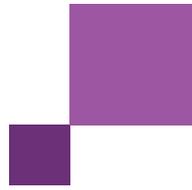
- Assess their obligations against the IESS Rule
- Validate that the correct contact details are held by AEMO
- Undertake test activities if desired.

Under NER 11.145.4 and from IESS commencement, SGAs will be “taken to be registered as an Integrated Resource Provider” for the small generating units for which it was the SGA immediately prior to IESS commencement.

Participants do not need to apply to AEMO to re-register as an IRP, however AEMO may require some information from participants to implement the transition.

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<sup>3</sup> Non-customer load participants can choose to either become an IRP or a Market Customer.



AEMO will:

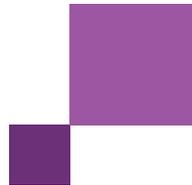
- Update SGAs' registration category to IRP in its pre-production and production market systems
- Enable SGAs to undertake test activities in pre-production under the new registration category (this is optional for participants)
- Update SGAs' registration category to IRP in its production market systems (subject to receiving satisfactory and complete information) for Sun 02 Jun 2024
- Notify SGAs immediately beforehand that registration category change is occurring
- Notify SGAs immediately after that change is complete.

## 4.1.2 IRP transition plan for SGAs

Table 4 outlines the key actions for SGAs to transition to the IRP registration category.

**Table 4 Small generator aggregator transition plan**

#	AEMO Actions	Industry Impacts & Actions	Planned Time (Market Time)	Communication Channel
<b>Transition Planning</b>				
1	AEMO to identify and validate list of SGAs.	Participant to review IESS Rule and communicate with AEMO if they are affected by the transition, particularly to confirm/update contact person.	Nov 2023	n/a
2	AEMO to engage with affected participants (SGAs) and the Implementation Forum on the IRP transition plan i.e. what is changing and why; and when and how those changes will occur.	Participants can choose to provide feedback on the IRP transition plan.	Late Nov 2023 to late Jan 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>
<b>Prepare Pre-Production Environment for Industry Testing &amp; Market Trial</b>				
3	AEMO to update and validate registration category to IRP for all SGAs in pre-production.	No action required	TBC for April 2024	n/a
4	AEMO to notify affected participants of re-registration as IRP in pre-production.	Affected participants can choose to undertake test activities under the new registration category. See <i>IESS Industry testing and market trial plan</i> for details of the testing that will be available.	TBC for April 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>
5	<b>Industry testing and market trial commences in pre-production</b>		Tue 02 Apr 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>
<b>Prepare Production Environment for IESS Commencement</b>				
6	IESS settlements release	No action required	TBC For Sun 02 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> </ul>
7	<b>IESS settlement changes commence</b>		Sun 02 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>
8	AEMO to update and validate registration category to IRP for all SGAs in production.	No action required	Update to be effective on Sun 02 Jun 2024	n/a
9	AEMO to notify affected participants of re-registration as IRP in production.	Affected participants accommodate new registration category in their NEM activities.	Sun 02 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>



## 4.2 New IRS participant transition to IRP registration category

This section describes the approach and sets out the relevant activities for transitioning a New IRS participant to the IRP registration category.

### 4.2.1 IRP transition approach for New IRS participants

AEMO estimates that there are approximately 14 New IRS participants who will need to transition to the IRP registration category.

**NOTE: BESS participants should read this plan in conjunction with the Bidirectional Unit Transition and Cutover Plan. This is because BESS participants must transition to the IRP category before cutting over to single bidirectional unit operations.**

The process to transition New IRS to the IRP registration category will largely be completed by AEMO. However, Participant input will be required to:

- Assess their obligations against the IESS Rule
- Provide AEMO with any required information, for example storage capacity information or updated contact details
- Undertake test activities if desired.

Under NER 11.145.3, New IRS participants will be “taken to be registered as an Integrated Resource Provider in relation to the integrated resource system” from Mon 03 June 2024 onwards.

New IRS participants do not need to apply to AEMO to re-register as an IRP. AEMO will update New IRS participants’ registration category to IRP in its pre-production and production market systems. However, AEMO may require some information from New IRS participants to complete this activity. For example, storage capacity information is required to establish the single BDU dispatchable unit identifier (DUID).

To transfer New IRS participants to the IRP registration category, AEMO will:

- Enable New IRS participants to undertake test activities in pre-production under the new registration category (this is optional for participants)
- Update New IRS participants’ registration category to IRP in its production market systems (subject to receiving satisfactory and complete information) for Mon 03 Jun 2024
- Notify New IRS participants immediately beforehand that registration category change is occurring
- Notify New IRS participants immediately after that change is complete.

## 4.2.2 IRP transition plan for New IRS participants

Table 5 contains the steps to transition New IRS participants to the IRP category.

**Table 5 New IRS participant transition plan**

#	AEMO Actions	Industry Impacts & Actions	Planned Time (Market Time)	Communication Channel
<b>TRANSITION PLANNING</b>				
1	AEMO to identify and validate list of affected participants	Participant to review IESS Rule and communicate with AEMO if they are affected by the transition.	Nov 2023	n/a
2	AEMO to engage with affected participants (new IRS participants) and the Implementation Forum on the IRP transition plan i.e. what is changing and why; and when and how those changes will occur.	Participants can choose to provide feedback on the IRP transition plan.	Late Nov 2023 to late Jan 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
3	AEMO to make available the necessary Transition forms for completion by participants. The information provided in these forms will be the used to establish the BDU DUID in AEMO's pre-production and production systems.	No action required	Early 2024	
4	n/a	Affected participants to complete and return Transition forms to AEMO.	<p>If participating in Market Trial, return paperwork by 08 Mar 2024</p> <p>If not participating in Market Trial, return paperwork by Wed 01 May.</p> <p><b>NOTE:</b> BDU cutover process and timing is described in the IESS BDU transition and cutover plan</p>	<ul style="list-style-type: none"> <li>Individual communications to each known affected participant</li> </ul>
5	AEMO to receive and process participant Transition forms	n/a	Either in time for participation in market trial or for 03 Jun 2024 (subject to receiving complete transition information).	
<b>PREPARE PRE-PRODUCTION ENVIRONMENT FOR IESS COMMENCEMENT</b>				
6	AEMO to update and validate registration category to IRP for affected participants (new IRS participants) in pre-production	No action required	TBC for April 2024	n/a
7	AEMO to notify affected participants of re-registration as IRP in pre-prod	<p>Affected participants can choose to undertake test activities under the new registration category.</p> <p>See <i><b>IESS Industry testing and market trial plan</b></i> for details of the testing that will be available.</p>	TBC for April 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants.</li> </ul>

#	AEMO Actions	Industry Impacts & Actions	Planned Time (Market Time)	Communication Channel
8		Industry testing and market trial commences in pre-production	Tue 02 Apr 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
<b>PREPARE PRODUCTION ENVIRONMENT FOR IESS COMMENCEMENT</b>				
9	IESS releases	No action required	TBC For Sun 02 Jun 2024 and Mon 03 Jun 2024	Support Hub Notification
10		IESS settlement changes commence	Sun 02 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
11		IESS BDU bidding and dispatch changes commence	Mon 03 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
12	AEMO to update and validate registration category to IRP for affected participants (new IRS participants) in production	No action required	Update to be effective on Mon 03 Jun 2024	n/a
13	AEMO to notify affected participants of re-registration as IRP in production	Affected participants accommodate new registration category in their NEM activities	Mon 03 Jun 2024	<ul style="list-style-type: none"> <li>Support Hub Notification</li> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>

## 4.3 Existing IRS and non-customer load participants

This section describes the approach and sets out the relevant activities for transitioning Existing IRS and non-customer load participants to the IRP registration category.

### 4.3.1 IRP transition approach for existing IRS and non-customer load participants

#### Existing IRS participants – BESS and pumped hydro

AEMO estimates that there are approximately nine BESS participants and two pumped hydro participants that will need to transition to the IRP registration category.

**NOTE: BESS participants should read this plan in conjunction with the Bidirectional Unit Transition and Cutover Plan. This is because BESS participants must transition to the IRP category before cutting over to single bidirectional unit operations.**

These participants must:

- Apply to register as an IRP by 08 Mar 2024 if intending to participate in the IESS market trial or by 03 Sep 2024
- Complete IRP registration **before cutting over to single BDU DUID operations** or by 03 Dec 2024.

#### Non-customer load participants

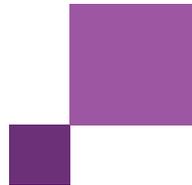
Non-customer load participants must:

- Apply to register as an IRP *or* a market customer by 08 Mar 2024 if intending to participate in the IESS market trial or by 03 Sep 2024
- Complete IRP registration by 03 Dec 2024.

#### Approach for both Existing IRS and non-customer load participants

For both existing IRS and non-customer load participants, AEMO will:

- Enable affected participants to undertake test activities in pre-production under the new registration category (this is optional and subject to having received a complete IRP registration application by 08 Mar 2024)
- Re-register the participant (subject to receiving satisfactory and complete information)
- Notify the participant immediately beforehand that re-registration is occurring
- Notify the participant immediately after that re-registration is complete.



### 4.3.2 Optional: IRP transition approach for non-transitioning generating systems

Moving to the IRP registration category is optional for non-transitioning generating systems. Should a non-transitioning generating system participant wish to transition to the IRP registration category under NER 11.145, it would need to:

- Apply to register as an IRP by 08 Mar 2024 if intending to participate in the IESS market trial or by 03 Sep 2024
- Complete IRP registration by 03 Dec 2024.<sup>4</sup>

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<sup>4</sup> A non-transitioning generating system participant can transition to the IRP category at a later time, but would incur a registration fee.

### 4.3.3 IRP transition plan for Existing IRS, non-customer participant loads and non-transitioning generating systems

Table 6 contains the steps to transition Existing IRS and non-customer load participants to the IRP category.

**Table 6 Existing IRS and non-customer load participant transition plan**

#	AEMO ACTIONS	INDUSTRY IMPACTS & ACTIONS	PLANNED TIME (MARKET TIME)	COMMUNICATION CHANNEL
<b>TRANSITION PLANNING</b>				
1	AEMO to identify and validate list of affected participants	Participant to review IESS Rule and communicate with AEMO if they are affected by the transition	Nov 2023	n/a
2	AEMO to engage with affected participants (existing IRS and non-customer load participants) and the Implementation Forum on the IRP transition plan i.e. what is changing and why; and when and how those changes will occur.	Participants can choose to provide feedback on the IRP transition plan	Late Nov 2023 to late Jan 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
3	AEMO to make available the necessary Transition forms for completion by participants.	No action required	Early 2024	<ul style="list-style-type: none"> <li>Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
4	n/a	Affected participants to complete and return Transition forms to AEMO.	<p>If participating in Market Trial, return paperwork by 08 Mar 2024</p> <p>If not participating in Market Trial, return paperwork at least 30 days prior to preferred BDU cutover week and must be submitted by 03 Sep 2024.</p> <p><b>NOTE:</b> BDU cutover process and timing is described in the IESS BDU transition and cutover plan</p>	<ul style="list-style-type: none"> <li>Individual communications to each known affected participant</li> </ul>
5	AEMO to receive and process participant Transition forms	n/a	<p>Subject to receiving complete information, either:</p> <ul style="list-style-type: none"> <li>In time for participation in market trial</li> <li>in time for BDU cutover</li> <li>or end of registration grace period (03 Dec 2024)</li> </ul>	

#	AEMO ACTIONS	INDUSTRY IMPACTS & ACTIONS	PLANNED TIME (MARKET TIME)	COMMUNICATION CHANNEL
<b>PREPARE PRE-PRODUCTION ENVIRONMENT FOR IESS COMMENCEMENT</b>				
6	AEMO to update and validate registration category to IRP for affected participants (new IRS participants) in pre-production	No action required	TBC for April 2024 if participating in IESS Market Trial	n/a
7	AEMO to notify affected participants of re-registration as IRP in pre-prod	Affected participants can choose to undertake test activities under the new registration category. See <i><b>IESS Industry testing and market trial plan</b></i> for details of the testing that will be available.	TBC for April 2024 if participating in IESS Market Trial	<ul style="list-style-type: none"> <li>• Support Hub Notification</li> <li>• Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
8	<b>Industry testing and market trial commences in pre-production</b>		Tue 02 Apr 2024	<ul style="list-style-type: none"> <li>• Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
<b>PREPARE PRODUCTION ENVIRONMENT FOR IESS COMMENCEMENT</b>				
9	IESS releases	No action required	TBC For Sun 02 Jun 2024 and Mon 03 Jun 2024	<ul style="list-style-type: none"> <li>• Support Hub Notification</li> </ul>
10	<b>IESS settlement changes commence</b>		Sun 02 Jun 2024	<ul style="list-style-type: none"> <li>• Support Hub Notification</li> <li>• Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
11	<b>IESS BDU bidding and dispatch changes commence</b>		Mon 03 Jun 2024	<ul style="list-style-type: none"> <li>• Support Hub Notification</li> <li>• Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>
12	AEMO to update and validate registration category to IRP for affected participants (existing IRS and non-customer load participants) in production	No action required	From 03 Jun 2024 to 03 Dec 2024, timing dependent on when participant submits IRP registration application form (step #4)	n/a
13	AEMO to notify affected participants of re-registration as IRP in production	Affected participants accommodate new registration category in their NEM activities	From 03 Jun 2024 to 03 Dec 2024	<ul style="list-style-type: none"> <li>• Support Hub Notification</li> <li>• Email to NEM Reform Implementation Forum members and affected Participants</li> </ul>

## 4.4 IRP transition - key supporting documents

In addition to this plan, the materials in Table 7 will assist participants who need to or choose to transition to the IRP registration category.

**Table 7 Key supporting documents for participants transitioning to the IRP registration category**

Document	Description	Timing
<b>BDU transition and cutover plan</b>	BESS participants should read the IRP transition plan in conjunction with the BDU Transition and Cutover Plan. This is because BESS participants must transition to the IRP category before cutting over to single bidirectional unit operations.	Wed 31 Jan 2024
<b>NMI classification code transition plan</b>	The NCC transition plan sets out the activities, dependencies, and timeframes for AEMO to transition the existing distribution-connected generators (and generation side of distribution-connected storage) to the DGENRATR registration category.	Wed 31 Jan 2024
<b>Registration and transition documentation</b>	Specifies the information required to complete transfer or registration to the IRP category.	Early 2024
<a href="#">IESS industry testing and market trial strategy</a>	Defines the approach, scope, process and responsibilities and high-level schedule of the industry testing and market trial phase for IESS.	Tue 17 Oct 2023
<a href="#">Participant development support environment fact sheet</a>	Fact sheet providing information about the Participant development support environment (PDSE) that may assist participants in their development and implementation of the June 2024 IESS changes.	Tue 14 Nov 2023
<b>IESS industry testing and market trial plan</b>	Details the different test phases and timing and approach of supporting activities, including for the testing registration changes for SGAs and New IRS participants.	Draft: Fri 19 Jan 2024 Final: Fri 16 Feb 2024
<b>IESS industry go-live plan</b>	Sets out the go-live approach and plan for the IESS system releases.	Draft: 26 Feb 2024 Final: 19 Apr 2024

# Glossary

TERM	DEFINITION
AEMC	Australian Energy Market Commission
AEMO	Australian Energy Market Operator
BDU	Bidirectional unit
BESS	Battery energy storage system
Cutover	System implementation event
DUID	Dispatchable unit identifier
FRMP	Financially responsible market participant
GPS	Generation Performance Standards
IESS	Integrating Energy Storage Systems rule
Industry testing	Informal, uncoordinated testing by participants in AEMO's IT environments. Self-testing of functionality such as connectivity, and/or coordinated multi-party testing of functional scenarios.
Invitation industry testing	Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing
IRP	Integrated resource provider
IRS	Integrated resource system
Market testing	Umbrella term covering industry testing, invitation industry testing and market trials
Market trials	Formal, industry coordinated test activities between participants' and AEMO's IT environments. Involves coordinated multi-party end-to-end testing of business process scenarios.
MSATS	Market settlements and transfer solutions
NCC	NMI classification code
NECR	Non-energy cost recovery
NEM	National electricity market
NER	National electricity rules
NMI	National metering identifier
PDSE	Participant development support environment
SGA	Small generation aggregator
Transition	Process of shifting from current to future operating state
UFE	Unaccounted for energy