

# IESS June 2024 Contingency approaches

February 2024



# Background

This Contingency approach reflects feedback from NEM Reform Implementation Forum stakeholders, discussed in February 2024.

In the discussion, it was noted that:

- The Go-Live criteria for IESS June release highlights the dependency on AEMO solution and business readiness to support the implementation of IESS on the 2nd (Settlements) and 3rd of June 2024 (BDU)
- The progress and go-live checkpoint conducted 1 December 2023 on-track progress against those criteria, and therefore, no consideration of a rule-based change to the implementation date was required
- The attached contingency approaches identify the proposed approach should scenarios arise prior to implementation that impact either the readiness of elements of the initiative, the action to be taken and the trigger point for those considerations.

# I ESS Contingency Approaches



Category	Area	Impact/Implication	Proposed Contingency approach	Decision Timeframe / Trigger
Settlement	Settlement Processing	Not able to demonstrate accurate settlement processing during Market Trial or prior go-live	<ul style="list-style-type: none"> <li>Assess if sufficient settlement runs to prove accuracy into remaining Market Trial Period.</li> <li>Delay Commencement of NECR component of IESS Rule- on basis that can't ensure integrity of market</li> <li>Delay introduction of single DUID / MSGAs transfer to IRP/ IRP registration due to technical software dependency on settlement processing</li> <li>Prepare and distribute comms explaining delay and next steps</li> </ul>	From commencement of Market Trial / 2 April
Settlement	Settlement certification	Settlement Certification processes identifies deficiencies in calculation that cannot be addressed prior go-live	<ul style="list-style-type: none"> <li>Delay Commencement of NECR component of IESS Rule- on basis that can't ensure integrity of market</li> <li>Delay introduction of single DUID / MSGAs transfer to IRP/ IRP registration due to technical software dependency on settlement processing</li> <li>Prepare and distribute comms explaining delay and next steps</li> </ul>	Settlement Certification Completion
Scheduling	Single DUID BDU operation	Updated Scheduling and cutover capability not able to be demonstrated during market Trial	<ul style="list-style-type: none"> <li>Reschedule BDU transition and commencement of new single DUID participants until fully tested capability available</li> <li>Support extended / rescheduled Industry Testing of capability once available</li> <li>Targeted comms to affected participants</li> </ul>	Completion of AEMO Internal Testing for Scheduling (regression)
Scheduling	Non- single DUID BDU scheduling (pumped hydro)	Regression impacts on non-single BDU scheduling operation that impact security of operation (eg inconsistent results, performance issues)	<ul style="list-style-type: none"> <li>Reschedule IRP transition (if required) and commencement of new single DUID participants until fully tested capability available</li> <li>Support extended / rescheduled Industry Testing of capability once available</li> </ul>	Commencement Of Market Trial / Completion of AEMO Internal Testing
Scheduling	NEMDE certification	NEMDE certification processes identify deficiencies that are not addressed prior go-live	<ul style="list-style-type: none"> <li>If Issue relates only to Single DUID BDU operation - reschedule commencement of single DUID BDU operation until certified Solution Available</li> <li>If Issue relates to integrity of all NEMDE outcomes - delay upgrades and go-live until remedied and certified</li> </ul>	Completion of AEMO Internal Testing for Scheduling
Registration/ On Boarding	IRP Registration / BDU Registration (new)	Unable to support IRP / BDU registration for Market Trial involvement	<ul style="list-style-type: none"> <li>Commencement in line with 2/3 June</li> <li>If delivery of operational code supports Phased establishment during market trial period - support delayed entry</li> </ul>	Registration AEMO Testing Completion
Registration/ On Boarding	IRP Registration / MSGA establishment	Unable to update BESS / MSGA registration to IRP as at 3/6/24 Unable to register new IRP from 3/6/24	<ul style="list-style-type: none"> <li>Update NCC for MSGA's to progress NECR processing (settlement)</li> <li>Delay IRP/ Single BDU progression</li> </ul>	Go-Live checkpoint - 1 May 2024
AEMO Business Readiness	Settlements	Business areas cannot effectively manage market operations with IESS capability deployed and ensure integrity of ongoing operations	<ul style="list-style-type: none"> <li>Delay Commencement of NECR component of IESS Rule until Business operations sufficiently stable</li> <li>Reschedule deployments in line with operations requirements</li> <li>Continue Market Trial / preparation activity</li> </ul>	Go-Live checkpoint - 1 May 2024
AEMO Business Readiness	Operations	Business areas cannot effectively manage system operations with deployed IESS capability and ensure system integrity	<ul style="list-style-type: none"> <li>Reschedule BDU transitions and commencement of single DUID BDU introduction in line with operations readiness</li> <li>Continue Market Trial processing with industry</li> <li>Deployments proceed on schedule</li> </ul>	Go-Live checkpoint - 1 May 2024
Participant Readiness	Widespread/ systemic lack of readiness for settlement changes	Widespread commercial impact to market due to participants inability to manage updated settlement data	<ul style="list-style-type: none"> <li>Delay Commencement of NECR component of IESS Rule until participant capability sufficiently stable</li> <li>Delay in opening - plus reschedule /extension of Market Trials</li> </ul>	Go-live checkpoint - 1 May 2024
Participant Readiness	Single DUID BDU operation	Multiple Participants not ready to transition to single DUID	<ul style="list-style-type: none"> <li>No delay in IESS commencement,</li> <li>Participants to reschedule individual BDU cutover in line with their readiness - subject to operational scheduling constraints</li> </ul>	Participant scheduling of BDU transition

# IESS Glossary

Term	Definition
<b>5MPD</b>	5-minute pre-dispatch
<b>ACE</b>	Adjusted consumed energy amount for the market connection point and trading interval
<b>ADC</b>	Aggregated Dispatch Conformance
<b>ADG_ID</b>	Aggregate Dispatch Group identifier for an Aggregate System
<b>AGC</b>	Automatic generation control
<b>AGE</b>	Adjusted gross energy
<b>ASL</b>	Ancillary service load
<b>ASOE</b>	Adjusted sent out energy amount for the market connection point and trading interval
<b>ASU</b>	Ancillary service unit
<b>B2B</b>	Business-to-business
<b>B2M</b>	Business-to-market
<b>BDU</b>	Bidirectional unit
<b>BESS</b>	Battery energy storage system
<b>CR</b>	Change request
<b>CRMP</b>	Cost recovery market participant
<b>DRSP</b>	Demand response service provider
<b>DUID</b>	Dispatchable unit identifier
<b>FCAS</b>	Frequency control ancillary services
<b>FRMP</b>	Financially responsible market participant
<b>IESS</b>	Integrating Energy Storage Systems rule
<b>IRP</b>	Integrated resource provider

Term	Definition
<b>IRS</b>	Integrated resource system
<b>MSATS</b>	Market settlements and transfer solutions
<b>MSGA</b>	Market small generation aggregator
<b>MT PASA</b>	Medium-term PASA
<b>NCC</b>	NMI classification code
<b>NECR</b>	Non-energy cost recovery
<b>NEM</b>	National electricity market
<b>NEMDE</b>	National electricity market dispatch engine
<b>NMI</b>	National metering identifier
<b>PAE</b>	Profiling and allocation engine
<b>PASA</b>	Projected assessment of system adequacy
<b>PD</b>	Pre-dispatch
<b>PDM</b>	Participant Data Model
<b>PMS</b>	Portfolio management system
<b>RRP</b>	Regional reference price
<b>SCADA</b>	Supervisory control & data acquisition
<b>SoC</b>	State of charge
<b>TLF</b>	Transmission loss factor
<b>TNI</b>	Transmission node identifier
<b>UFE</b>	Unaccounted for energy
<b>WDRU</b>	Wholesale demand response unit